

A Report on
International Symposium
on

Advances in Computational Intelligence for Power Systems

28-29th March, 2022

Organized by
Department of Electrical Engineering

Submitted by
Dr. Sarfaraz Nawaz (Convener)
Associate Professor, Department of Electrical Engineering

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1. About SKIT: -

SKIT(SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management.

Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from University curriculum, SKIT also pursues activities for research and development in various fields.

The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic. Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality and greater competitive spirit.

Our Inspiration

"Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation, we need to root it out as early as possible."

– Swami Keshvanand

Swami Keshvanand, an orphan, illiterate, nomadic man who never received formal education, was the founder of more than 300 schools, 50 hostels and innumerable libraries, social service centres and museums. Swami Keshvanand had a deep understanding of the rural society of the desert region. He had explained the peculiarities of the desert region, identified the problems and suggested appropriate and logical solutions. It was Swami Keshvanand's lifelong endeavours to eradicate social evils like untouchability, child marriage, indebtedness, poverty, backwardness, alcohol abuse, moral dissipation etc.

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player.

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

- All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.

- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.”

2. Committee for the Event:-

CONVENER

Dr. Sarfaraz Nawaz, Associate Professor
(Department of Electrical Engineering)

FACULTY COORDINATOR

Mrs. Pooja Jain, Assistant Professor
Mr. Ajay Bhardwaj, Assistant Professor
Mr. Mohd. Imran, Assistant Professor
(Department of Electrical Engineering)

STUDENT COORDINATOR

Mr. Sumit Saini, 3rd Year
(Department of Electrical Engineering)

3. List of Committee Members: -

International Symposium on
"Advances in Computational Intelligence for
Power System "

(ACIPS-2022)

March 28 - 29, 2022

Organized by:

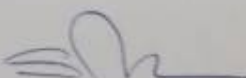
Department of Electrical Engineering,

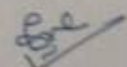
Swami Keshvanand Institute of Technology, Management & Gramothan,
Jaipur

List of Committee Members

24/03/2022

S.No.	Committee Name	Member Name	
1	Advisory	Dr. Dhanraj Chitara Dr. Virendra Sangtani Mr. Abhishek Gupta	Dr. Akash Saxena Mr. Anksuh Tandon
2	Coordinators	Mrs. Pooja Jain Mr. Md. Imran	Mr. Ajay Bhardwaj
3	Registration and Feedback	Mr. Ajay Bhardwaj Mrs. Baibhav Bishal	Mr. Jitendra Singh
3	Brochure Design	Mrs. Pooja Jain	Mr. Ajay Bhardwaj
4	Invitation	Mr. Avadhesh Sharma Mr. Tanuj Rawat	Mr. Garvit Gupta
5	Publicity and Media	Mr. Vivek Sharma	Mr. Jinendra Rahul
6	Anchoring	Mr. Deepak Saini Ms. Jyotsana Singh	Mrs. Deepti Arela
7	Webex management	Mr. Md. Imran Mr. Yusuf Sharif	Mr. Akash Deo
8	Repertoire	Dr. Suman Sharma Mrs. Kavita Jain	Mr. Bharat Modi Mr. Ankit Vijayvargiya
9	Certificate	Mr. Vikas Mahla	Mr. Tarun Naruka
10	Session Chair	Dr. Suman Sharma Mr. Bharat Modi	Dr. Virendra Sangtani Dr. Jyotsna Singh


Dr. Sarfaraz Nawaz
(Convener)


Dr. Dhanraj Chitara
(Head, EE Dept.)

4. Details of the Chief guest: - (Prof. Ahmed Lakhssassi)

Ahmed Lakhssassi received the B.Eng. and M.Sc. A in electrical engineering from Université du Québec à Trois-Rivières (UQTR), Québec, Canada in 1988 and 1990 respectively. He also received the Ph.D. in Energy and Material sciences in 1995 from INRS-Énergie et Matériaux (Institut National de la Recherche Scientifique), Québec, Canada. At the same year also, he had become a professor of Electro-thermomechanical aspects at NSERC -Hydro-Quebec Industrial Research Chair at Electrical Engineering Department of the UQTR, where, for several years, he conducted Electro-thermal research projects. Since 1998, he has been with UQO (Université du Québec en Outaouais), where he is currently titular professor and responsible of the LIMA laboratory (Advanced Microsystem Engineering Laboratory) developing IP core and embedded algorithms for microsystems thermo-mechanical sensors dedicated for thermal peak detection. His research interest is the fields of bio-heat thermal modeling such as: heat diffusion in biological tissues, metabolic heat generation and external interactions, heat transfer mechanism in biological tissues for thermal therapeutic practices including dedicated bio-implantable puce design for cancer thermal dose control. Furthermore, his research interest are in machine learning to recognize the type of pain and to quantify the amount of pain to tracks any potential injury using neural networks and thermal image processing. Also, his research interest is in Design of Fully Automated tool for Porting Analog and Mixed signal circuits within Different Technology nodes. Dr. Lakhssassi is senior member of IEEE, the OIQ (Ordre des Ingénieurs du Québec, Canada), NanoQuébec and has more than twenty-three years' experience with a large expertise with applications in the fields of Electro-Thermo-mechanical analysis for electronic and microelectronics system design. Professor Lakhssassi in a regular member of ReSMiQ (Strategic Alliance in Microsystems of Québec) the largest research center in microelectronics funded by the Government of Québec. He is the author/co-author of more than 240 scientific publications and research report, and thesis advisor of 90 graduate and undergraduate students who completed their studies.



INTERNATIONAL SYMPOSIUM
on



Advances in Computational Intelligence for Power Systems (ACIPS-2022)

MARCH 28 , 2022

Chief Guest



Prof. Ahmed Lakhssassi

Director of the Engineering Module
LIMA Laboratory Chair, Université du Québec en
Outaouais, Canada
IEEE Senior member

CO-ORDINATORS

Dr. Sarfaraz Nawaz
Associate Professor (EE Dept.,SKIT)

Mrs. Pooja Jain
Assistant Professor (EE Dept.,SKIT)

Mr. Ajay Bhardwaj
Assistant Professor (EE Dept.,SKIT)

Mr. Mohd. Imran
Assistant Professor (EE Dept.,SKIT)

5. Invited Speakers: -

S.No.	Name of Speaker	Affiliates	Day & Date
1	Prof. Ahmed Lakhssassi	Director of the Engineering Module, LIMA laboratory chair, Université du Québec en Outaouais, Canada	28 March,2022 & 9:30- 10:30 pm
2	Dr. Md. Khalid Imam Rahmani	Dept. of Computer Science, College of Computing & Informatics, Saudi Arabia	28 March,2022 & 12:30-1:30 pm
3	Neeraj Gupta	Research Staff, Dept. of Computer Science & Engineering, Okland University, Michigan	29 March,2022 & 9:30- 10:30 pm
4	Prof. (Dr.) Shabaz A. Siddiqui	Proffessor, Manipal University, Jaipur	29 March,2022 & 12:30-1:30 pm



INTERNATIONAL SYMPOSIUM

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IEEE Senior member

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Assistant Professor (EE Dept.,SKIT)

Mr. Mohd. Imran
Assistant Professor (EE Dept.,SKIT)



INTERNATIONAL SYMPOSIUM

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Advances in Computational Intelligence for Power Systems

(ACIPS-2022)

MARCH 28, 2022 (12:30-1:30 PM)

DAY-1, SESSION-II



Dr. Md. Khalid Imam Rahmani

Dept. of Computer Science, College of
Computing & Informatics, Saudi Electronic
University, Saudi Arabia
IEEE Senior Member



INTERNATIONAL SYMPOSIUM

on



Advances in Computational Intelligence for Power Systems

(ACIPS-2022)

MARCH 29, 2022 (9:30-10:30 AM)

DAY-2, SESSION-I



Dr. Neeraj Gupta

Research staff, Dept. of Computer Science
and Engineering, Oakland University,
Rochester, Michigan



INTERNATIONAL SYMPOSIUM

on



Advances in Computational Intelligence for Power Systems

(ACIPS-2022)



MARCH 29, 2022 (12:30-1:30 PM)

DAY-2, SESSION-II











Prof. (Dr.) Shahbaz A. Siddiqui
Professor, Manipal University Jaipur


6. Publicity of the Events: -



INTERNATIONAL SYMPOSIUM
on
**Advances in Computational
Intelligence for Power Systems**
(ACIPS-2022)
Inaugural Ceremony
MARCH 28 , 2022

 <p>Shri Surja Ram Meel Chairman SKIT, Jaipur</p>	 <p>Shri Jaipal Meel Director SKIT, Jaipur</p>	 <p>Prof. (Dr.) S. L. Surana Director (Academics) SKIT, Jaipur</p>	 <p>Prof. (Dr.) Ramesh Kumar Pachar Principal SKIT, Jaipur</p>
 <p>Ms. Rachna Meel Registrar SKIT, Jaipur</p>	 <p>Ms. Abba Meel Advisor SKIT, Jaipur</p>	 <p>Prof. (Dr.) R. K. Jain DEAN SKIT, Jaipur</p>	 <p>Dr. Dhanraj Chitara Head, Dept. of EE SKIT, Jaipur</p>

Chief Guest



Prof. Ahmed Lakhssassi
Director of the Engineering Module
LIMA Laboratory Chair, Université du Québec en Outaouais, Canada
IEEE Senior member

Organized by
Department of Electrical Engineering
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Patrons

Shri Raja Ram Meel, Patron, SKIT
Shri Surja Ram Meel, Chairman, SKIT

Advisory Committee(SKIT)

Shri Jaipal Meel, Director, SKIT
Prof. S. L. Surana, Director (Academics), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Prof. Ramesh Kumar Pachar, Principal, SKIT
Mrs. Abba Meel, Advisor, SKIT
Prof. R.K.Jain, Dean, SKIT
Dr. Dhanraj Chitara, HOD (EE), SKIT
Prof. Anil Choudhary, HOD (IT), SKIT
Prof. Mukesh Gupta, HOD (CSE), SKIT
Prof. Mukesh Arora, HOD (ECE), SKIT
Dr. Ona Ladiwal, HOD (DMS), SKIT
Prof. Dheeraj Joshi, HOD (ME), SKIT
Prof. D. K. Sharma, HOD (CE), SKIT
Prof. Rohit Mukherjee, Incharge, I Year, SKIT
Prof. Amber Srivastava, HOD (Maths), SKIT
Dr. Sharda Soni, HOD (Chemistry), SKIT
Prof. Brajraj Sharma, HOD (Physics), SKIT
Prof. Neha Purohit, HOD (English), SKIT

International Advisory Committee

Dr. Md. Khalid Imam Rahmani, College of Computing and Informatics, Saudi Electronic University, Riyadh, Saudi Arabia
Prof. Jamal Zbitou, ENSA of Tangier, National School of Applied Sciences, University of Abdelmalek Essaadi, Morocco
Dr. Javed Khan, King Khalid University, Abha, Saudi Arabia
Dr. Nand Kishore Meena, Aston University, UK
Dr. Neeraj Gupta, Oakland University, Rochester, Michigan, USA
Prof. Hossein Hassani, Shareholders University, Iran
Prof. Davron Aslonqulovich Juraev, Higher Military Aviation School, Republic of Uzbekistan
Prof. I Onur Kiyamaz, Ahi Evran University, Turkey
Dr. Vivek Prakash Gupta, University of Zagreb, Croatia

REGISTRATION

For registration as presenter/attendee,
Fill the google form:

<https://forms.gle/jZBKTDW5tkEXRAQs7>

No registration Fees



CONTACT US

Convener

Dr. Sarfaraz Nawaz
Associate Professor (EE Dept.,SKIT)
Mobile No.:- 93514 03141

Co-ordinators

Mrs. Pooja Jain, Asst. Prof.(EE Dept.,SKIT)
Mr. Ajay Bhardwaj, Asst. Prof.(EE Dept.,SKIT)
Mr. Mohd. Imran, Asst. Prof.(EE Dept.,SKIT)

Student Co-ordinator

Mr. Sumit Saini, III Year (EE Dept.,SKIT)

For more information

Visit:

<https://bit.ly/3FyquAB>

Or mail at acips@skit.ac.in



International
Symposium



on

Advances in Computational Intelligence for Power Systems

(ACIPS-2022)

28-29th March, 2022

Organized by

Department of Electrical Engineering,
(NBA Accredited)

&

Institution of Engineers (India)

Swami Keshvanand Institute of
Technology, Management &
Gramothan, Ramnagar, Jagatpura,
Jaipur, Rajasthan, India

www.skit.ac.in

National Advisory Committee

Dr. S. K. Calla, Ex-CMD, RRVUNL and Council Member, IE (India)

Prof. D.K. Palwalia, Dean Academics, RTU, Kota

Prof. Dinesh Birla, Head, EE Dept., RTU, Kota

Prof. Ikbal Ali, Jamia Millia Islamia, New Delhi

Prof. Ajay Kumar Bansal, Central University, Haryana

Dr. Praveen Agarwal, Anand International college of Engineering, Jaipur

Dr. Kushal Jagtap, NIT Srinagar

Dr. Asadur Rahman, NIT Srinagar

Dr. Shahbaz Ahmed Siddiqui, Manipal University, Jaipur

Dr. Mahendra Lalwani, RTU, Kota

Dr. Santosh Kr. Sharma, RTU, Kota

Organizing Committee(SKIT)

Prof. Akash Saxena

Dr. Virendra Sangtani

Dr. Suman Sharma

Dr. Jyotsana Singh

Mr. Ankush Tandon

Mr. Abhishek Gupta

Mr. Tarun Naruka

Mr. Jitendra Singh

Mrs. Baibhav Bishal

Mr. Jinendra Rahul

Mr. Bharat Modi

Mrs. Smriti Jain

Mr. Ankit Vijayvargiya

Mrs. Kavita Jain

Mr. Mohd Yusuf Sharif

Mr. Tanuj Rawat

Mr. Vivek Sharma

Mr. Manish Navlakha

Mr. Avadhesh Sharma

Mrs. Rammurti Meena

Mr. Akash Deo

Mr. Vikas Mahala

Mr. Deepak Saini

Mrs. Deepti Arela

Mr. Garvit Gupta

About SKIT, Jaipur

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management. SKIT has been ranked no.1 engineering Institute in Rajasthan by RTU, Kota consecutively for the last five years. Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry-Institute Interface.

Recently SKIT bagged Outstanding Engineering College of Excellence award by Competition Success Review (2021), AAA rating by Careers360 Survey (2021), position among top 100 Pvt. Engineering Institutions of India by Outlook Survey (2021), 'Excellence in Placement' award by First India (2021), 'AA' rating for third time in SWAYAM NPTEL Ratings 2021 and has been ranked 18th in top hundred local chapters.

Department of Electrical Engineering

The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. All efforts are subtly harnessed with the aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas of Electrical Engineering. The department puts in consistent efforts for field exposure to students through various research-oriented projects taken up for meeting the industry demands. The Department offers a perfect blend of electrical and electronics related courses to help students pursue a professional career or higher studies.

The graduates of the Department venture out for a wide range of organizations including reputed MNC's, PSU's, Armed Forces and Indian Engineering Services (IES), etc.

About the Symposium

Power system and grid infrastructure have been designed for centralized and controllable power production in conventional power plants, the RES expansion leads to an increasingly uncertain, volatile and decentralized supply. To manage the system safely under these changing conditions, new technological and institutional innovations will be required. Moreover, methods are needed to ensure a dependable operation of existing power grids, but also to support long-term power system planning and design robust future power grids, both on a regional scale supporting micro grid design and on a global scale supporting national and continental transmission planning. Providing efficient optimization methods to support analysis in these different contexts plays a major challenge. This symposium aims to cover different disciplines, including mathematics, economics and electrical engineering, to support power system planning, ensuring an affordable, secure and environmentally friendly power supply.

Topics to be covered include, but are not limited to:

- Computational Intelligence for Computer Interfaces
- Evolutionary Computation for computer vision and Image analysis
- Hybrid Intelligent models and applications
- Mathematical modelling of power grids
- Power grid optimization under uncertainty
- Optimization Techniques used in power systems
- Efficient algorithms for OPF analysis
- Economic, environmental and reliability aspects of energy system and grid management
- Combined generation and transmission expansion planning
- New strategies for power grid operation and optimization under uncertainty
- Energy system integration (e.g., analyzing the impact of power-to-heat or power-to-gas) and DSM
- Adaptive Dynamic Programming & Reinforcement Learning

Call for Paper/Poster

For Papers:

- Abstract of the paper must be typed in a single space in maximum 300 words. The full text of the paper must not exceed 6 pages of A4 size in IEEE Conference format only.
- Original and unpublished scholarly work and quality papers would be considered for possible inclusion in the following journals:-

1. Annual Technical Volume of Technical Engineering Division of Institution of Engineers (India).

2. An International Journal of Engineering, Sciences, Humanities & Management, Innovation & Excellence.

ISSN (PRINT) 2278-2508 ISSN (ONLINE) 2454-9673

For Posters:

- The recommended poster size is 36 inches * 78 inches.
- At the top of poster, mention a title section indicating: (1) The poster title and (2) the author(s) and their institutional affiliation(s).
- Include the following major sections: Abstract, Introduction, Methods and Materials, Results, Discussion, and References. Sections should be labeled and appear in a clear order.

Important Dates:

Submission of Abstract/Paper-10 March 2022

Final Notification - 15 March 2022

7. List of Registered Candidates:-

S.No.	Name	Gmail
1	Rajnish kumar	rajnishsony07@gmail.com
2	Vivek Sharma	viveksha1985@gmail.com
3	Surender Reddy Salkuti	surender@wsu.ac.kr
4	Rajan Gupta	rajangupta.ee@gmail.com
5	Vikas Verma	vverma.vikas.verma@gmail.com
6	Abhishek Vishnoi	nitttr.abhishek@gmail.com
7	Dr Javed Khan Bhutto	jbhutto@kku.edu.sa
8	Ashwini Bapu Jawale	jawale.abj@gmail.com
9	Manoj Kumar Saini	Yaduvanshysaini007@gmail.com
10	Madhav Mittal	mittalmadhav18@gmail.com
11	Yash Jindal	yashjindal267@gmail.com
12	Ananta Kumar Sahoo	anantrasmi@gmail.com
13	Bhushan Subhash Rakhonde	bsr.ssgmce@gmail.com
14	Mohd Azharuddin	mazharuddin477@gmail.com
15	Vishwanath Prasad Kurmi	v.pkurmi@rediffmail.com
16	Akshit Tiwari	akshittiwari1113@gmail.com
17	Ayush Kumar Mishra	aayushmishra02109@gmail.com
18	Sohit Agarwal	sohit.agarwal@gmail.com
19	Hardial Singh Sidhu	hardialsingh442@gmail.com
20	Saurabh N. Mehta	saurabh.mehta@vit.edu.in
21	Syed Mujtaba Mahdi Mudassir	mudassir@deccancollege.ac.in
22	Pushpendra Kumar Sharma	sharma.pkskit@gmail.com
23	Nikhil Ahire	nikhilahire5555@gmail.com
24	Surbhi Pareek	PAREEK.SURABHI95@GMAIL.COM
25	S Singhubham	shubhamsingh80767@gmail.com
26	Prashant Bharatrao Pawar	prashantpawar450@gmail.com
27	Lokesh Kumar Verma	rgpvlokesh@gmail.com
28	Neha singh	paliwalsinghneha123@gmail.com
29	Sonika Meena	Sonikameena43446@gmail.com
30	Jinendra Rahul	jjinendra.r@gmail.com
31	Nishant Singh, Raghuraj Singh Bhati, Paras Jatav, Naveen kumar verma	nishantsingh301999@gmail.com
32	Hemant Gurjar	hemantgurjar1571999@gmail.com
33	shubham sharma	sharmamani912@gmail.com
34	Rajesh Kumar	btech19eskee204@skit.ac.in
35	Gavit Gupta	garvit.gupta@skit.ac.in
36	Lokesh Kumar Verma	lkshkvrpgv@gmail.com
37	Er.Lokesh Kumar Verma	lokesh_kumar_verma@yahoo.co.in
38	Om prakash	omprakashpalka@gmail.com
39	Krishnkant	krishnkantjat13@gmail.com
40	Dr Rajesh Kumar Bathija	sukosh2019@gmail.com
41	Sohit Agarwal	sohit.agarwal@gmail.com
42	Anushka porwal	anushkaporwal012@gmail.com

43	Mohit Sharma	sharmamohit0902@gmail.com
44	Ekata Sharma	ekata.sharma@poornima.org
45	Bhavya Deep Sharma	bhavyas340@gmail.com
46	Preeti Verma	preetiverma.070304@gmail.com
47	Simran Rawat	b210702@skit.ac.in
48	Tushar Kumar Sahu	b210393@skit.ac.in
49	Somya Jain	b210780@skit.ac.in
50	Priyal Ajmera	priyalajmera745@gmail.com
51	Sonali jain	B210493@skit.ac.in
52	Shailesh Purohit	shailesh432004@gmail.com
53	Shubham Jain	shubhamjain7182@gmail.com
54	Nishant Jain	nishantjainbv@gmail.com
55	Samiksha Sambyal	samikshasambyal0012@gmail.com
56	Prashant Jethwani	b210803@skit.ac.in
57	Suhani goyal	goyalsuhani850@gmail.com
58	Sakshi yadav	B210918@skit.ac.in
59	Naman Jain	namanjain8112@gmail.com
60	sahil karwani	nikhilkarwani270@gmail.com
61	Shreshtha Suri	Shuri9988@gmail.co
62	Sandeep Kumar Yadav	sandeep8529353302@gmail.com
63	Vibhor Bansal	vibhorbansal619@gmail.com
64	Yash Soni	24yashsoni@gmail.com
65	Satyanand Kandela	satyanandverma082@gmail.com
66	Gunjan Sharma	gunjansmay10@gmail.com
67	Raju Sharma	rajudausa0888@gmail.com
68	Deekshant Tak	dikshantt14@gmail.com
69	Shivam sharma	Shiivam1995@gmail.com
70	Pritish Mathur	prishmathur33@gmail.com
71	Gaurav Khandal	btech19eskee061@skit.ac.in
72	piyush jangid	pjrock007786@gmail.com
73	Atif Jan	atif.jann@hotmail.com
74	Mohammed Hussain Daghasi	dgase1@hotmail.com
75	Deeksha Choudhary	choudharydeeksha03@gmail.com
76	Anushka Jain	janushka306@gmail.com
77	Drishti Gupta	guptadrishti140302@gmail.com
78	Guru Sharan Kumawat	gskumawat0301@gmail.com
79	hukam chand gwala	hukamchandgwala@gmail.com
80	Manish kumawat	mk5412341@gmail.com
81	Archana jha	jhashubhangi2002@gmail.com
82	Arun prajapati	lovearun010@gmail.com
83	Divam pareek	divampareek03@gmail.com
84	Kunal Pareta	kunalpareta74@gmail.com
85	Akshita Sharma	akshi06sharma@gmail.com
86	Ishan Menghani	10ishanmenghani@gmail.com
87	Gaurav sain	saingaurav49@gmail.com
88	Ananya Srivastav	sarfaraz@skit.ac.in

89	Divam pareek	btech19eskee056@skit.ac.in
90	Mohammed Sayeeduddin Habeeb	mshabeeb@kku.edu.sa
91	Dr. Mahendra Bhadu	mbhadu@gmail.com
92	Abdul Muqeet Mohammed	mabdulmuqeet@kku.edu.sa
93	Majahar Hussain Mahammad	mazhar204@gmail.com
94	Mohan Lal Saini	mohanlalsaini1508@gmail.com
95	Abhishek Gupta	a.abhi.engg@gmail.com
96	Jinendra Rahul	jinendra.r@gmail.com
97	Rakshit Khandelwal	khandelwalrakshit0608@gmail.com
98	Tanuj Rawat	tanuj.rawat@skit.ac.in
99	Raju Sharma	btech19eskee140@skit.ac.in
100	Pushpendra jatav	Pushpendrajatav58@gmail.com
101	Lalit meena	mlalit309@gmail.com
102	Khushal Kumar Sain	khushalksain@gmail.com
103	Anjali Singh	anjalinmanhare993@gmail.com
104	Deeksha Choudhary	choudharydeeksha03@gmail.com
105	Tapesh Kumar	tapesh945@gmail.com
106	Salman Arafath Mohammed	salman@kku.edu.sa
107	Mumal Bhati	mumalbhati1011@gmail.com
108	Mitali sharma	ms0619923@gmail.com
109	Yash saini	yashgahlot2002@gmail.com
110	Priyanka Sharma	priyankas@skit.ac.in
111	Nishant Singh	nishantsingh301999@gmail.com
112	Amber Srivastava	amber@skit.ac.in
113	Pooja Choudhary	pooja.choudhary@skit.ac.in
114	Yash Soni	24yashsoni@gmail.com
115	Harshita Sharma	sharma9harshita@gmail.com
116	Rohit kumar chourasiya	rchourasiya187@gmail.com
117	Nishi Chouhan	chouhannishi035@gmail.com
118	Monika Dhananjay Rokade	monikarokade4@gmail.com

8. Schedule of the Event: -



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electrical Engineering
Organizes
Two Day International Symposium on

" Advances in Computational Intelligence for Power Systems "

March 28- 29, 2022

SCHEDULE

Day-I (28/03/2022)		
https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e27b441500467a45c4ac15fcdc5938a2 Day-1 Link Password:12345		
9 am	Inauguration	Chief Guest: Prof. Ahmed Lakhssassi, Director of the Engineering Module, LIMA Laboratory Chair, Université du Québec en Outaouais, Canada, IEEE Senior member
Technical Session-I		
9.30 am	Key Note address -I	Prof. Ahmed Lakhssassi
10.30 am	Paper Presentations	Session Chair: Dr. Sarfaraz Nawaz
Technical Session-II		
12: 30 pm	Key Note address -II	Dr. Md. Khalid Imam Rahmani, College of Computing and Informatics, Saudi Electronic University, Riyadh, Saudi Arabia IEEE Senior member
1:30 pm	Paper Presentations	Session Chair: Mr. Bharat Modi
Day-II (29/03/2022)		
https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=efef818e27864f6884a2de72cf1faae3c Day-2 Link Password:12345		
Technical Session-III		
9 am	Key Note address -III	Dr. Neeraj Gupta, Oakland University, Rochester, Michigan, USA
10 am	Paper Presentations	Session Chair: Dr. Virendra Sangtani
Technical Session-IV		
12: 30 pm	Key Note address -IV	Dr. Shahbaz Ahmed Siddiqui, Professor, Manipal University, Jaipur
1:30 pm	Paper Presentations	Session Chair: Dr. Suman Sharma
2:30 pm	Valedictory Function	

9. List of Papers Presenters Schedule: -



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electrical Engineering
Organizes
Two Day International Symposium on
"Advances in Computational Intelligence for Power Systems"
March 28- 29, 2022

Paper Presentation schedule

Day-I (28/03/2022) Technical Session-I Time 10:30 am onwards		
S.No	Title of Paper	Authors
1	Image Captioning Methods for Generate Image Sentimentation Generation	SohitAgarwal, Dr. Mukesh Kr Gupta Gyan Vihar University, Jaipur
2	Load Frequency Control of Interconnected Power System using 2DOF-PID controller Optimized with Particle Swarm Optimization Algorithm	Majahar Hussain Mahammad, Dr. Ch. Ravi Kumar Acharya Nagarjuna University, Guntur, India
3	Review of Speech Emotion Analysis Using Machine Learning	Tapesh Kumar, Mehul Mahrishi SKIT, Jaipur, India
4	Optimal Allocation of FACTS devices in transmission system for voltage stability enhancement	Ananya Srivastav, Dr. Sarfaraz Nawaz SKIT, Jaipur, India
Technical Session-II (28/03/2022) Time 1:30 pm onwards		
5	Efficiency& Stability Analysis of Energy Production from Advanced Perovskites material PV Cells	Javed Khan Bhutto* Department of Electrical Engineering, King Khalid University, Abha, Saudi Arabia
6	Voltage Stability Improvement by Optimal Allocation of STATCOM	Shubham Sharma, Ajay Bhardwaj, Dr. Sarfaraz Nawaz SKIT, Jaipur, India
7	Voice Operated Elevator And Emergency Indicator	GarvitGupta,Naveen Kumar Verma, Nishant Singh, Paras Jatav , Raghuraj Singh SKIT, Jaipur, India
8	Managing impacts of uncertainty on Unit Commitment with energy storage based distributed generation by hybrid optimization	Smriti Jain, Ramesh Kumar Pachar, Lata Gidwani SKIT, Jaipur, India



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9	A.I. Based Drone For Disaster Management	Aayushman Mishra SKIT, Jaipur, India
10	A Maximal Cost Saving Approach for Allocation of Capacitor Units in Distribution System Using Imperialist Competitive Algorithm (ICA)	Pramod Jat, Ankush Tandon SKIT, Jaipur, India
11	Power Quality Improved Permanent Magnet Brushless DC Motor Drive Using Buck-Boost PFC Converter	Shivam Sharma*, Kamal Arorab, Aditya Sharma Career Point Univeristy and RTU Kota
Day-II (29/03/2022) Technical Session-III Time 10:00 am onwards		
12	Electric Vehicle Charging Strategies from the Perception of Various Stakeholders – A Comparison	Tanuj Rawat, Jyotsna Singh SKIT, Jaipur, India
13	Improvement of Voltage Stability of Power System using SVSI Index	AkshitaSharma , Sarfaraz Nawaz SKIT, Jaipur, India
14	A Review on Hydroponics Farming and its Future in India	Rajesh Kumar SKIT, Jaipur, India
15	Review on Monitoring and Controlling Solar Power Plant by Using SCADA Application	P.A.Bharate , S.S.Chavan , K.J.Lonkar , A.A.Sarje, P.B.Pawar S.B. Patil College Of Engg., Indapur
16	Solar Tracking System to Maximize Solar Photovoltaic System	Gaurav Namdev SKIT, Jaipur, India
17	Enhancement of Voltage Stability of IEEE 14 Bus systems by using Shunt FACTS device in PSCAD Software	Aarti Shah, Amisha Jain, Anveshika Singh, Khushal Kumar Sain



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Electrical Engineering

Organizes

Two Day International Symposium on

" Advances in Computational Intelligence for Power Systems "

March 28- 29, 2022

Day-II (29/03/2022) Technical Session-IV Time 1:30 pm onwards		
18	Review of Heart Disease Prediction Techniques	Anjali Singh, Dr. Neha Janu SKIT, Jaipur, India
19	An Improved Loss Sensitivity Approach For Optimal Allocation of DG (Solar and Capacitor) at Different Penetration Level	Gunjan Sharma, Dr. Sarfaraz Nawaz SKIT, Jaipur, India
20	Allocation of DG Units for Loss Minimization in Distribution Network	Ekta Bhardwaj, Dr. Sarfaraz Nawaz SKIT, Jaipur, India
21	Optimization of Linear Stub Coupled Plasmonic Waveguide using Machine Learning Approach	Priyanka Sharma, Rukhsar Zafar SKIT, Jaipur, India
22	Model free Composite Scheme to Manifest Solar and Wind Energy Integrated Grid Performance	Divya Rishi Shrivastava and Shahbaz Ahmed Siddiqui Manipal University Jaipur, India
23	Recent Advancements in Fabrication of Perovskite Solar Cells	Anupam Agarwal, S.A. Siddiqui, Amit Soni
24	A Novel Approach for Multiple DG Allocation in Distribution System of Jaipur City	Vinisha Gurjar, Sarfaraz Nawaz SKIT, Jaipur, India
25	An Opposition Theory inspired BAT Algorithm (OTIBA) for profit maximization of GENCOs in Day-ahead Power Market	Sweha Rajora, Pooja Jain SKIT, Jaipur, India
26	An IoT enabled Smart Accident Detection e-yantra	Kanak Agarwal, Keshav Hinger, Manish Kumar Saini, Prerna Verma, Pooja Choudhary
27	Cloud Based Smart Energy Meter	Pooja Choudhary, Harsh Khandelwal, Chatrapal Singh, Charu Shukla
28	An Overview of Neural Network (NN) Approaches for Short-Term Load Prediction	Ms. Deepti Arela, Ms. Kavita Jain, Dr. Jyotsna Singh

10. List of Participants: -

S.No.	NAME	EMAIL
1	Ms. Mitali Sharma	ms0619923@gmail.com
2	Ms. Anushka Porwal	anushkaporwal012@gmail.com
3	Mr. Bhavya Deep Sharma	bhavyas340@gmail.com
4	Ms. Preeti Verma	preetiverma.070304@gmail.com
5	Ms. Simran Rawat	b210702@skit.ac.in
6	Mr. Tushar Kumar Sahu	b210393@skit.ac.in
7	Ms. Sonali Jain	B210493@skit.ac.in
8	Mr. Shailesh Purohit	shailesh432004@gmail.com
9	Mr. Nishant Jain	nishantjainbv@gmail.com
10	Ms. Shreshtha Suri	Shuri9988@gmail.co
11	Mr. Vibhor Bansal	vibhorbansal619@gmail.com
12	Ms. Drishti Gupta	guptadrishti140302@gmail.com
13	Mr. Manish Kumawat	mk5412341@gmail.com
14	Mr. Divam Pareek	divampareek03@gmail.com
15	Ms. Akshita Sharma	akshi06sharma@gmail.com
16	Mr. Lalit Meena	mlalit309@gmail.com
17	Ms. Deeksha Choudhary	choudharydeeksha03@gmail.com
18	Mr. Harshita Sharma	sharma9harshita@gmail.com
19	Mr. Rohit Kumar Chourasiya	rchourasiya187@gmail.com
20	Mr. Piyush Jangid	pjrock007786@gmail.com
21	Mr. Ishan Menghani	10ishanmenghani@gmail.com
22	Ms. Nishi Chouhan	chouhannishi035@gmail.com
23	Mr. Prashant Jethwani	b210803@skit.ac.in
24	Mr. Sandeep Kumar Yadav	sandeep8529353302@gmail.com
25	Mr. Hukam Chand Gwala	hukamchandgwala@gmail.com
26	Mr. Arun Prajapati	lovearun010@gmail.com
27	Mr. Gaurav Sain	saingaurav49@gmail.com
28	Mr. Raju Sharma	btech19eskee140@skit.ac.in
29	Ms. Mumal Bhati	mumalbhati1011@gmail.com
30	Mr. Abhishek Gupta	a.abhi.engg@gmail.com
31	Mr. Shubham Jain	shubhamjain7182@gmail.com
32	Ms. Priyal Ajmera	priyalajmera745@gmail.com
33	Ms. Sakshi Yadav	B210918@skit.ac.in
34	Mr. Shubham Singh	shubhamsingh80767@gmail.com
35	Mr. Ayush Kumar Mishra	aayushmishra02109@gmail.com
36	Mr. Hardial Singh Sidhu	hardialsingh442@gmail.com
37	Mr. Manoj Kumar Saini	Yaduvanshysaini007@gmail.com
38	Mr. Syed Mujtaba Mahdi Mudassir	mudassir@deccancollege.ac.in
39	Mr. Vishwanath Prasad Kurmi	v.pkurmi@rediffmail.com
40	Mr. Lokesh Kumar Verma	lkshkvrgrp@gmail.com
41	Dr. Mahendra Bhadu	mbhadu@gmail.com

42	Mr. Rajan Gupta	rajangupta.ee@gmail.com
43	Mr. Nikhil Ahire	nikhilahire5555@gmail.com
44	Mr. Ashwini Bapu Jawale	jawale.abj@gmail.com
45	Mr. Vikas Verma	vverma.vikas.verma@gmail.com
46	Mr. Abhishek Vishnoi	nitttr.abhishek@gmail.com
47	Mr. Abdul Muqeet Mohammed	mabdulmuqeet@kku.edu.sa
48	Dr. Javed Khan Bhutto	jbhutto@kku.edu.sa
49	Mr. Mohammed Sayeeduddin Habeeb	mshabeeb@kku.edu.sa
50	Mr. Salman Arafath Mohammed	salman@kku.edu.sa
51	Mr. Atif Jan	atif.jann@hotmail.com
52	Ms. Ananta Kumar Sahoo	anantrasmi@gmail.com
53	Ms. Ekata Sharma	ekata.sharma@poornima.org
54	Ms. Anushka Jain	janushka306@gmail.com
55	Ms. Archana Jha	jhashubhangi2002@gmail.com
56	Mr. Madhav Mittal	mittalmadhav18@gmail.com
57	Mr. Naman Jain	namanjain8112@gmail.com
58	Mr. Pushpendra Jatav	Pushpendrajatav58@gmail.com
59	Mr. Raju Sharma	rajudausa0888@gmail.com
60	Ms. Surbhi Pareek	PAREEK.SURABHI95@GMAIL.COM
61	Ms. Sonika Meena	Sonikameena43446@gmail.com
62	Mr. Lokesh Kumar Verma	rgpvlokesh@gmail.com
63	Mr. Bhushan Subhash Rakhonde	bsr.ssgmce@gmail.com
64	Mr. Om Prakash	omprakashpalka@gmail.com
65	Mr. Pushpendra Kumar Sharma	sharma.pkskit@gmail.com
66	Mr. Krishnkant	krishnkantjat13@gmail.com
67	Mr. Surender Reddy Salkuti	surender@wsu.ac.kr
68	Mr. Mohammed Hussain Daghasi	dgase1@hotmail.com

11. List of Participated Faculty: -


S.No.	NAME	EMAIL	FACULTY ID
1	Mrs. Kavita Jain	kavita@skit.ac.in	188
2	Mr. Akash Deo	akash.deo@skit.ac.in	758
3	Mr. Avadhesh Sharma	avadhesh@skit.ac.in	191
4	Mrs. Baibhav Bishal	baibhav.bishal@skit.ac.in	687
5	Mr. Deepak Saini	deepaksaini@skit.ac.in	822
6	Ms. Smriti Jain	smriti@skit.ac.in	63
7	Mr. Tarun Naruka	tarunnaruka@skit.ac.in	192
8	Mr. Jitendra Singh	jitendra.singh@skit.ac.in	690
9	Mr. Mahesh Meena	manish.navlakha@skit.ac.in	908
10	Dr. Jyotsana Singh	jyotsna.singh@skit.ac.in	902
11	Mohd. Yusuf Sharif	yusuf.sharif@skit.ac.in	816
12	Mrs. Deepti Arela	deepti.arela@skit.ac.in	658

12. Glimpses of The Event:-



Pooja Jain Mohd Imran Ahmed Lakhssassi Dr. R. K. Jain Ajay Bhardwaj

INTERNATIONAL SYMPOSIUM
 on
Advances in Computational Intelligence for Power Systems
 (ACIPS-2022)
 MARCH 28, 2022
Chief Guest



Prof. Ahmed Lakhssassi
 Director of the Engineering Module
 LIMA Laboratory Chair, Université du Québec en
 Outaouais, Canada
 IEEE Senior member

CO-ORDINATORS

Dr. Sarfaraz Nawaz Associate Professor (EE Dept.,SKIT)	Mrs. Pooja Jain Assistant Professor (EE Dept.,SKIT)
Mr. Ajay Bhardwaj Assistant Professor (EE Dept.,SKIT)	Mr. Mohd. Imran Assistant Professor (EE Dept.,SKIT)

+2

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Layout













Ajay Bhardwaj

Dr. Akash Saxena

Sarfaraz Nawaz

Participants (43)

Q Search

Panelist: 9

- SN Sarfar... Host, me
- AL Ahmed Lakhssassi
- AG Abhishek Gupta
- AB Ajay Bhardwaj
- DS Dr. Akash Saxena
- DJ Dr. R. K. Jain
- PJ Pooja Jain

Q & A

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Participants
Chat

Viewing Ahmed Lakhssassi's...

MoU between UQO & Manipal University Jaipur

67 Years old legacy of excellence in education

- Manipal Academy of Higher Education (MAHE), Manipal, India
- Manipal College of Medical Sciences, Nepal
- Sikkim Manipal University, Sikkim
- Melaka Manipal Medical College, Malaysia
- Manipal Academy of Higher Education, Dubai
- America University of Antigua, Antigua
- Manipal University Jaipur, India (MUJ)

@MUJ Students - 8000+, Alumni - 7000+, Faculty - 480+

UQO
Université du Québec en Outaouais

UQO is part of a Network of 19 + Université du Québec + member universities in the province of Québec, Canada. The Network offers more than 3,200 programs for over 102,000 students.

MoU between MUJ India & UQO Canada May 2020

Registrar MUJ India | Signing Authorities | Rector UQO Canada

Advanced Microsystem Engineering Laboratory | ACIPS - 2022 | Stop my video (Ctrl + Shift + V) | Sarfaraz Nawaz

Unmute | Stop video | Share | Participants | Chat

Participants (36)

Search

- SN Sarfar... Host, me
- AI Ahmed Lakhssassi
- AG Abhishek Gupta
- AB Ajay Bhardwaj
- PJ Pooja Jain
- SN Sarfaraz Nawaz

Attendee: 30 (0 displayed)

View all attendees...

Q & A

Viewing Ahmed Lakhssassi's...

UQO Université du Québec en Outaouais

Different research topics

LIMA: Advanced Microsystem Engineering Laboratory

- Design of Fully Automated tool for Porting Analog and Mixed signal circuits within Different Technology nodes
- Microelectronics and thermal aspects in VLSI Microsystems,
- Embedded system design and rapid prototyping on FPGA and MEMS, Bio-implantable devices
- Embedded sensors and WSN Network,
- Thermal diffusion in biological tissues and bio thermal imaging,
- Medical Thermal Image Processing-MDTIP Project
- Monitoring, detection and recognition algorithms in the field of infrastructure and bio-medical

Advanced Microsystem Engineering Laboratory | ACIPS - 2022, SKIT, Jaipur | Prof. Ahmed Lakhssassi | 4

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Participants (35)

Search

- SN Sarfar... Host, me
- AI Ahmed Lakhssassi
- AG Abhishek Gupta
- AB Ajay Bhardwaj
- PJ Pooja Jain
- SN Sarfaraz Nawaz

Attendee: 29 (0 displayed)

View all attendees...

Q & A

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Mohd Imran Host

Abhishek Gupta

Participants (35)

Me

Mohd Imran Host

Ahmed Lakhssassi

Abhishek Gupta

Chat

from Mohd Imran to everyone: 10:18 AM
kidlly raise queries

from Mohd Imran to everyone: 10:20 AM
kindly*

To: Host

Enter chat message here

Unmute (Ctrl + M), or press and hold the Spacebar to temporarily unmute

Unmute Stop video Share

Participants Chat

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Abhishek Gupta

Pooja Jain

Ahmed Lakhssassi

Ajay Bhardwaj

rukhsar zafar

Virendra Sangtani

Participants (36)

Sarfar... Host, me

Ahmed Lakhssassi

Abhishek Gupta

Ajay Bhardwaj

Pooja Jain

rukhsar zafar

Virendra Sangtani

Attendee: 29 (0 displayed)

View all attendees...

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Participants Chat

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Abhishek Gupta Pooja Jain **UQO** Ajay Bhardwaj rukhsar zafar Virendra Sangtani

Participants (30)

Search

host, me

A Ahmed Lakhssassi

AG Abhishek Gupta

AB Ajay Bhardwaj

PJ Pooja Jain

RZ rukhsar zafar

VS Virendra Sangtani

Attendee: 23 (0 displayed)

[View all attendees...](#)

Q & A

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Participants Chat

UQO
Université du Québec en Outaouais

Effect of laser ablation on biological tissues

3D Simulation of the Laser Interstitial Thermal Therapy (LITT) of Brain Tumors

material inner radius: 1 mm
mat inner thickness: 2500 μm
Radius of laser spot size: 6 mm
Laser power: 5 W
Time of laser to move back and forth: 10 s
surface emissivity of mat: 0.8

Time=15 s - Surface Temperature (degC)
Arrow Surface Velocity field

Advanced Microsystem Engineering Laboratory ACIPS - 2022, SKIT, Jaipur Prof. Ahmed Lakhssassi 28

Dr. Mohammad Rahman Mohd Imran Abhishek Gupta Ajay Bhardwaj sarfaraz nawaz

MI AG AB SN

Optimization Final [Compatibility Mode] - PowerPoint

Equations Used

Optimal placement of FACTS devices to minimize the cost of installation of FACTS devices has been mathematically formulated and is given by (1).

(1) Minimize $IC = C \times S \times 1000$

where IC is the optimal installation cost of FACTS devices in US\$ and C is the cost of installation of FACTS devices in US\$/KVAR.

The costs of installation of various FACTS devices are given by (2).

(2) $C_{UPFC} = 0.0003S2 - 0.2691S + 188.22$
 $C_{TCSC} = 0.0015S2 - 0.7130S + 153.75$
 $C_{SVC} = 0.0003S2 - 0.3051S + 127.38$

where S is the operating range of the FACTS devices in MVAR.

(3) $S = Q_2 - Q_1$

where Q_2 is the reactive power flow in the line after installing FACTS device in MVAR and Q_1 is the reactive power flow in the line before installing FACTS device in MVAR.

The cost is optimized with the following constraints.

- Line flow and
- Bus voltage constraints

(4) $J = \prod_{LINE} OVL_{LINE} \times \prod_{BUS} VS_{BUS}$

J is the factor indicating violation of line flow limits and bus voltage limits, where OVL denotes line overload factor for a line and VS denotes voltage stability index for a bus.

13. News Paper Cuttings: -

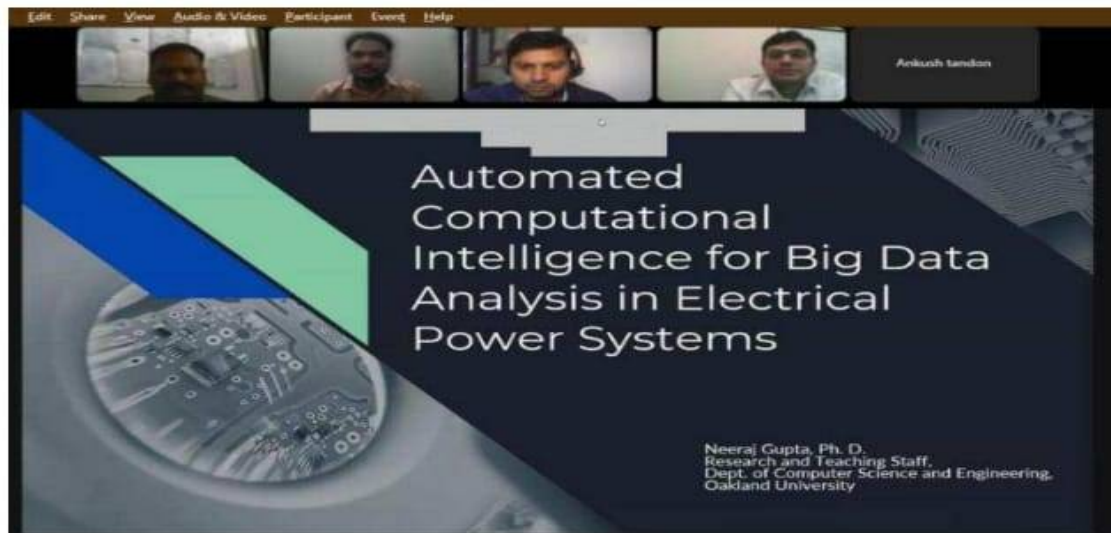
दो दिवसीय इंटरनेशनल सिमोजियम का समापन



जयपुर। स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी में इलेक्ट्रिकल डिपार्टमेंट में दो दिवसीय इंटरनेशनल सिमोजियम का समापन मंगलवार को हुआ। एडवांस इन कंप्यूटेशनल इंटेलिजेंस फॉर पावर सिस्टम विषय पर ऑनलाइन माध्यम में आयोजित इस इंटरनेशनल सिमोजियम में प्रतिभागियों को पावर सिस्टम के क्षेत्र में उपयोग में ली जाने वाली सॉफ्टवेयर आधारित एडवांस तथा इंटेलिजेंस कंप्यूटेशनल तकनीकों से अवगत कराया गया। सिमोजियम में पावर सिस्टम इंजीनियरिंग क्षेत्र से संबंधित देश-

विदेश के विभिन्न संस्थानों में से वारत हस्तियों ने भाग लिया। सिमोजियम के पहले दिन प्रोफेसर अहमद लक्खासासी, डॉ. मोहम्मद खालिद इमाम रहमानी तथा दूसरे दिन डॉ. नीरज गुप्ता तथा प्रोफेसर शाहबाज अहमद सिद्दीकी ने एक्सपर्ट लेकर दिए कइसी क्रम में छात्रों द्वारा इस क्षेत्र से संबंधित 25 विभिन्न विषयों पर व्याख्यान प्रस्तुत किए गए। कार्यक्रम के समापन में इलेक्ट्रिकल इंजीनियरिंग डिपार्टमेंट के एसोसिएट प्रोफेसर अंकुश टंडन द्वारा सभी आगंतुक मेहमानों तथा प्रतिभागियों को धन्यवाद प्रस्तुत किया गया।

एसकेआईटी में दो दिवसीय इंटरनेशनल सिंपोजियम का समापन



P3 Police Public Politics

जयपुर ! स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी) जगतपुरा, जयपुर में इलेक्ट्रिकल इंजीनियरिंग डिपार्टमेंट में दो दिवसीय इंटरनेशनल सिंपोजियम का समापन 29 मार्च 2022 को संपन्न हुआ। एडवांस इन कंप्यूटेशनल इंटेलिजेंस फॉर पावर सिस्टम विषय पर ऑनलाइन माध्यम में आयोजित इस इंटरनेशनल सिंपोजियम में प्रतिभागियों को पावर सिस्टम के क्षेत्र में उपयोग में ली जाने वाली सॉफ्टवेयर आधारित एडवांस तथा इंटेलिजेंस कंप्यूटेशनल तकनीकों से अवगत कराया गया। सिंपोजियम में पावर सिस्टम इंजीनियरिंग क्षेत्र से संबंधित देश-विदेश के विभिन्न संस्थानों में सेवारत हस्तियों ने भाग लिया। सिंपोजियम के पहले दिन प्रोफेसर (डॉ.) अहमद लख्खासासी (डायरेक्टर ऑफ इंजीनियरिंग मॉड्यूल, लीमा लैबोरेट्री चेर, केनेडा), डॉ. मोहम्मद खालिद इमाम रहमानी (डिपार्टमेंट ऑफ कंप्यूटर साइंस, कॉलेज ऑफ कंप्यूटिंग एंड इनफॉर्मेटिक्स, सऊदी इलेक्ट्रॉनिक्स

यूनिवर्सिटी) तथा दूसरे दिन डॉ. नीरज गुप्ता (रिसर्च स्टाफ, डिपार्टमेंट ऑफ कंप्यूटर साइंस एंड इंजीनियरिंग, ऑकलैंड यूनिवर्सिटी, मिशीगन) तथा प्रोफेसर (डॉ.) शाहबाज अहमद सिद्दीकी (प्रोफेसर, मणिपाल यूनिवर्सिटी जयपुर) ने एक्सपर्ट लेक्चर दिए। इसी क्रम में छात्रों द्वारा इस क्षेत्र से संबंधित 25 विभिन्न विषयों पर व्याख्यान प्रस्तुत किए गए।

कार्यक्रम के समापन में इलेक्ट्रिकल इंजीनियरिंग डिपार्टमेंट के एसोसिएट प्रोफेसर अंकुश टंडन द्वारा सभी आगंतुक मेहमानों तथा प्रतिभागियों को धन्यवाद प्रस्तुत किया गया। इसी क्रम में इलेक्ट्रिकल इंजीनियरिंग विभाग के एसोसिएट प्रोफेसर तथा सिंपोजियम के संयोजक डॉ. सरफराज नवाज ने सिंपोजियम के बारे में प्रतिभागियों को 2 दिनों तक आयोजित किए कार्यक्रमों का सारांश प्रस्तुत किया। इस कार्यक्रम का समन्वयन इलेक्ट्रिकल इंजीनियरिंग विभाग के फैकल्टी सदस्य पूजा जैन, अजय भारद्वाज, मोहम्मद इमरान द्वारा किया गया था।

दो दिवसीय इंटरनेशनल सिमोजियम का समापन



महानगर टाइम्स/जयपुर

स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी में इलेक्ट्रिकल डिपार्टमेंट में दो दिवसीय इंटरनेशनल सिंमोजियम का समापन मंगलवार को हुआ। एडवांस इन कंप्यूटेशनल इंटेलिजेंस फॉर पावर सिस्टम विषय पर ऑनलाइन माध्यम में आयोजित इस इंटरनेशनल सिंमोजियम में प्रतिभागियों को पावर सिस्टम के क्षेत्र में उपयोग में ली जाने वाली सॉफ्टवेयर आधारित एडवांस तथा इंटेलिजेंस कंप्यूटेशनल तकनीकों से अवगत कराया गया। सिंमोजियम में पावर सिस्टम इंजीनियरिंग क्षेत्र से संबंधित देश-विदेश के विभिन्न संस्थानों में सेवारत हस्तियों ने भाग लिया। सिंमोजियम के पहले दिन प्रोफेसर अहमद लक्खासासी, डॉ. मोहम्मद खालिद इमाम रहमानी तथा दूसरे दिन डॉ. नीरज गुप्ता तथा प्रोफेसर शाहबाज अहमद सिद्दीकी ने एक्सपर्ट लेकर दिए कइसी क्रम में छात्रों द्वारा इस क्षेत्र से संबंधित 25 विभिन्न विषयों पर व्याख्यान प्रस्तुत किए गए। कार्यक्रम के समापन में इलेक्ट्रिकल इंजीनियरिंग डिपार्टमेंट के एसोसिएट प्रोफेसर अंकुश टंडन द्वारा सभी आगंतुक मेहमानों तथा प्रतिभागियों को धन्यवाद प्रस्तुत किया गया।

14. Feedback of The Event: -

S.no	Name of the Participant	Roll No.	Your experience about the Symposium	Knowledge Gained from Symposium	Your experience about the Symposium	Knowledge Gained from Symposium
1	Shubham sharma	17ESKPS609	10	10	10	10
2	Lalit meena	18ESKKEE066	8	7	8	7
3	Anveshika singh	18ESKKEE708	9	10	9	10
4	Khushal Sain	18ESKKEE726	10	10	10	10
5	Pramod Kumar jat	18ESKPS604	10	10	10	10
6	Akshita Sharma	19ESKKEE012	10	10	10	10
7	Deeksha Choudhary	19ESKKEE051	5	5	5	5
8	Divam pareek	19ESKKEE056	9	9	9	9
9	Ekta Bhardwaj	19ESKKEE060	10	10	10	10
10	Kunal Pareta	19ESKKEE089	9	9	9	9
11	GUNJAN SHARMA	19ESKPS602	10	10	10	10
12	Tapesh Kumar	20ESKCS609	10	10	10	10
13	Aayushman Mishra	20ESKME001	10	10	10	10
14	Ananya Srivastav	20ESKPS600	10	10	10	10
15	Prashant Jethwani	21ESKCS161	9	9	9	9
16	Tushar Kumar Sahu	21ESKCS836	10	10	10	10
17	Adesh Gurjar	19ESKKEE001	10	9	9	10
18	Aarsh Raghav	19ESKKEE002	8	9	9	9
19	Aashish Kaushik	19ESKKEE003	10	9	8	9
20	Abhinav Goyal	19ESKKEE005	9	9	9	9
21	Abhishek Kumawat	19ESKKEE006	8	10	8	8
22	Aditya Kumar	19ESKKEE007	10	10	9	9
23	Aditya singhal	19ESKKEE009	9	8	8	9
24	Akash Sharma	19ESKKEE007	8	8	8	9
25	Akshat Joshi	19ESKKEE011	9	8	9	9

15. Sample Copy of Certificate: -

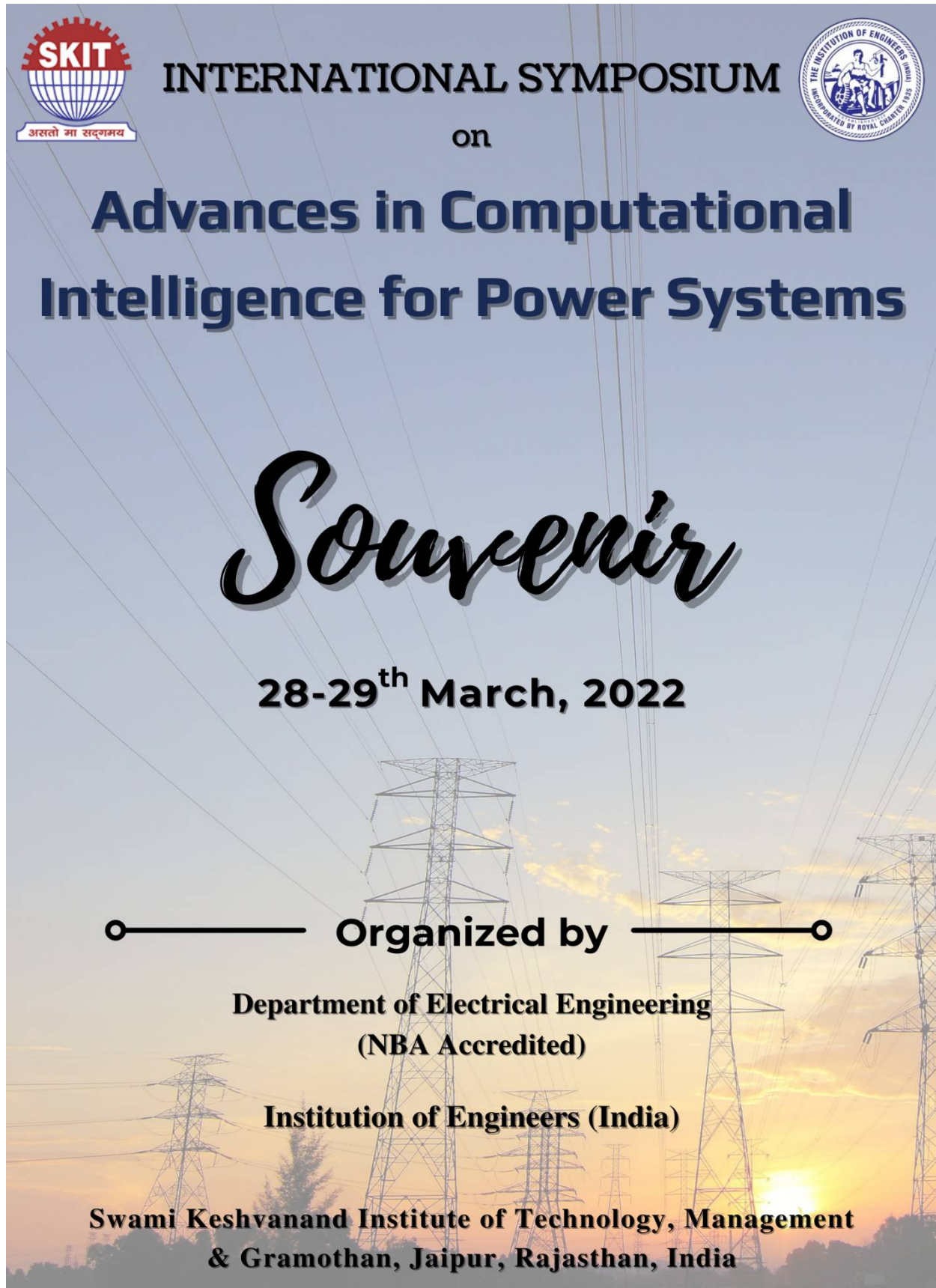


Participation Certificate



Appreciation Certificate

16. Souvenir Book Cover: -



SKIT
असतो मा सद्गमय

INTERNATIONAL SYMPOSIUM
on
**Advances in Computational
Intelligence for Power Systems**

Souvenir

28-29th March, 2022

— Organized by —

**Department of Electrical Engineering
(NBA Accredited)**

Institution of Engineers (India)

**Swami Keshvanand Institute of Technology, Management
& Gramothan, Jaipur, Rajasthan, India**

17. Words of Acknowledgement: -

Day- I DATE – 28 MARCH, 2022

The Two-Day International Symposium on “Advances in Computational Intelligence for Power Systems” (ACIPS – 2022) organized by the Department of Electrical Engineering of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT) in association with the Institution of Engineers (India). The Convener of the event was Dr. Sarfaraz Nawaz (Associate Prof., E.E. Department, SKIT) and the Co-ordinators were Mrs. Pooja Jain (Assistant Prof., EE Department, SKIT), Mr. Ajay Bhardwaj (Assistant Prof., E.E. Department, SKIT) and Mr. Mohd. Imran (Assistant Prof., E.E. Department, SKIT). The Student Co-ordinator Mr. Sumit Saini (3rd Year E.E. Department, SKIT). The Chief Guest of the event was Prof. Ahmed Lakhssassi (Director of the Engineering Module, LIMA laboratory chair, Université du Québec en Outaouais, Canada, IEEE Senior member).

The event had Inauguration, 4 Sessions and Valedictory Function. In the Inauguration, the chief guest was Prof. Ahmed Lakhssassi (Director of the Engineering Module, LIMA laboratory chair, Université du Québec en Outaouais, Canada, IEEE Senior Member). Dr. RK Jain (Dean, SKIT, Jaipur) welcomed Prof. Ahmed Lakhssassi on behalf of SKIT, Family . He shed light on our institute Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management. He reflected that from the last 5 years SKIT is No. 1 among RTU affiliated colleges in Rajasthan. Since, 2011 SKIT is also publishing research papers annually. Dr. Sarfaraz Nawaz stated that the main objective of this symposium is to spread awareness and enhance knowledge of participant in the field of computational Intelligence and soft completed. Prof. Ahmed Lakhssassi presented a vote of thanks to the Department of Electrical Engineering of Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur (SKIT) for organising 2 days International Symposium. He is proud to collaborate with the International Symposium. At last, Mohd. Imran (Assistant Prof., E.E. Department, SKIT) presented vote of thanks and closed the Inauguration ceremony.

Day - 1, Session - 1 of the first day of the event. The keynote speaker of the session was Prof. Ahmed Lakhssassi (Director of the Engineering Module, LIMA laboratory chair, Université du Québec en Outaouais, Canada, IEEE Senior Member). The topic of the session was “Improving Human Health: Challenges and Methodology for controlling thermal doses during Cancer therapeutic treatment”. The host Mrs. Pooja Jain (Assistant Prof., E.E. Department, SKIT) commenced the session at 10:00 A.M. with a heartfelt welcome note to the guests. Prof. Ahmed Lakhssassi explained about the unhealthy and poor lifestyle of the people which causes diseases like diabetes etc. He talked about the healthcare sector and the investment been done in it. He explained about advantages of microelectronics use in treatment. He explained about the advance devices used in outside monitoring like smart watches etc.

Afterwards the authors presented their research papers. The session was chaired by Dr. Sarfaraz Nawaz.

The Day - 1, Session - 2 of the event.

The keynote speaker of the session was Dr. Md. Khalid Imam Rahmani (College of Computing and Informatics, Saudi Electronic University, Riyadh, Saudi Arabia, IEEE Senior Member). The topic of the session was “Optimization Techniques: PSO and its Application”. The host Mohd. Imran (Assistant Prof., E.E. Department, SKIT) commenced the session at 12:30 P.M. with a heartfelt welcome note to the guests. Dr. Rahmani explained optimization and particle swarm optimization (PSO), firstly he discussed about the background and the goal of optimization which is very important thing that maximum and minimum of its smooth function. Components of Optimization Problem is explained afterwards which contains some facts such as design variables which is a set of unknowns or variables which affect the value of the objective functions whereas constraints are a set of constraints that allow the unknown to take on certain values but exclude others. Afterwards the authors presented their research papers one followed the other. The session was chaired by Mr. Bharat Modi.

The Day - 2, (29 march, 2022) Session - 1 of the event.

The first expert of the day -2 sessions was Dr. Neeraj Gupta (Oakland University, Rochester, Michigan, USA). The session commenced at 9:00 A.M. by Mrs. Pooja Jain (Assistant Prof., E.E. Department, SKIT) with a beautiful welcome note to the Guest. Dr. Neeraj Gupta threw

light on the importance of electricity, the objectives of electricity, and how we can make the best use of it. Then, he discussed Big Data in Power Systems in detail. He also explained big data properties like volume, velocity, variety, value, venue, requirements and the characteristics of the core components of the Data Analyst like Deep Learning, AI (Artificial Intelligence) and ML (Machine Learning). Afterwards the authors presented their research papers one followed the other. The session was chaired by Dr. Virendra Sangtani..

The Day - 2, Session – 2 of the event.

The expert of the session was Dr. Shahbaz Ahmed Siddiqui (Professor, Manipal University, Jaipur). The session commenced at 12:30 P.M. by Mr. Ajay Bhardwaj (Assistant Prof., E.E. Department, SKIT) with a beautiful welcome note to the Guest. Dr. Shahbaz Ahmed Siddiqui briefed the audience about the Wide Area Measurement Systems (WAMS), its features, its requirements, its protection and Phasor Measurement Units (PMUs). He discussed the major issues in Wide Area Monitoring and Assessment, real time situation awareness, wide area control of Power System utilization of real time monitoring of Power System with optimal PMU placement. Afterwards the paper presenters presented their research papers one followed the other. The session was chaired by Dr. Suman Sharma.

In the valedictory, the host Mr. Ankush Tandon (Associate Prof., E.E. Department, SKIT) commenced the ceremony at 2:30 P.M. Mr. Ankush gave vote of thanks to the keynote speakers Prof. Ahmed Lakhssassi (Director of the Engineering Module, LIMA Laboratory Chair, Université du Québec en Outaouais, Canada, IEEE Senior Member), Dr. Md. Khalid Imam Rahmani (College of Computing and Informatics, Saudi Electronic University, Riyadh, Saudi Arabia, IEEE Senior Member), Dr. Neeraj Gupta (Oakland University, Rochester, Michigan, USA) and Dr. Shahbaz Ahmed Siddiqui (Professor, Manipal University, Jaipur) of the International Symposium. Sir also expressed a big gratitude to the research paper presenters and a special thanks to the students and faculty members who have presented their research papers in the International Symposium. He also presented vote of thanks to Dr. Sarfaraz Nawaz (Associate Prof., E.E. Department, SKIT), Mr. Bharat Modi (Associate Prof., E.E. Department, SKIT), Dr. Virendra Sangtani Sir (Associate Prof., E.E. Department, SKIT) and Mrs. Suman Sharma (Associate Prof., E.E. Department, SKIT) for sparing their

valuable time. Sir appreciated the Student Co-ordinator Mr. Sumit Saini (3rd Year E.E. Department, SKIT) for putting his valuable efforts in organizing 2 – days International Symposium. Later, Mr. Ankush Tandon presented a vote of thanks to the team members Dr. Sarfaraz Nawaz (Associate Prof., E.E. Department, SKIT), Mrs. Pooja Jain (Assistant Prof., E.E. Department, SKIT), Mr. Ajay Bhardwaj (Assistant Prof., E.E. Department, SKIT) and Mr. Mohd. Imran (Assistant Prof., EE Department, SKIT) for making this event a grand success. Ankush Sir stated that “Department is always known for giving quality education and making the students learn through such events and this will be continued in the years to come with many such events”. Lastly, the panellists took a group photograph and with this the 2 days International Symposium came to an end.

18. Signature of Convener: -

A handwritten signature in black ink, appearing to be 'SN', is centered on a light gray rectangular background.

Dr. Sarfaraz Nawaz