

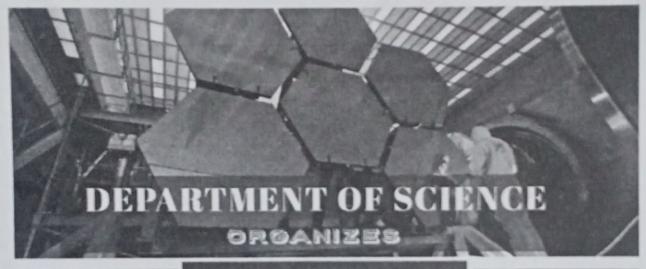
### MARKANDA NATIONAL COLLEGE SHAHABAD MARKANDA (HARYANA, INDIA)



(NAAC Re-Accredited Institute)

DEPARTMENT OF HIGHER EDUCATION, HARYANA, APPROVED

TWO DAYS ONLINE INTERNATIONAL CONFERENCE





INTERNATIONAL
CONFERENCE ON
ADVANCES IN
SCIENCE AND
TECHNOLOGY IN
21ST CENTURY
(ICAST-22)
26-27 FEBRUARY 2022





REGISTRATION LINK: https://tinyurl.com/ICAST2022 Call for Papers/Abstracts Last Date February 22, 2022 Email: icast22 a mneshahabad.com



### GENERAL PROFILE OF COLLEGE

Markanda National College, Shahabad-Markanda was established in 1971 by M.N. College Educational Society primarily to cater to the educational needs of this predominantly rural area. At that time, no college existed at Ladwa and even at Kurukshetra - the seat of Kurukshetra University, except University College, which had only brilliant urban students on its rolls. The establishment of this college proved to be a boon for this area. Ever since its inception, this college has not looked back and making significant strides, has developed into a multifaculty institution, imparting instructions in English at Post-graduate level and in Arts, Science and Commerce Streams at under-graduate level. The college also runs successfully PG diploma in Yoga and two job oriented add-on courses (i) Retail Management and (ii) Information and computer technology. The college is coeductaional institution affiliated to Kurukshetra University, Kurukshetra. The college is proud of its imposing infrastructure and an environment conducive to learning. It has a spacious building surrounded by lush green lawns and a playground. The building consists of well maintained class rooms, well equipped labs (Physics, Chemistry, Computer and Edusat), a spacious Library, a conference room, an auditorium with three green rooms, a Webinar Hall, a big canteen, new and modern girls common room, Edusat theatre besides office complex and Principal's residence. At present, the college has more than one thousand students on its rolls. Besides traditional subjects, faculty is available for teaching marketing as vocational subject. The college is also running NSS and NCC units successfully.

### INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY IN 21ST CENTURY (ICAST-22)

### SUB-THEMES

- Non-linear Dynamics
- · Spectroscopie Techniques
- · Electrochemistry
- · Materials Synthesis and Characterization Techniques
- · Green Chemistry
- · Pharmaceuticals
- · Polymers
- Template synthesis Nano-Materials
- Natural and Background Radioactivity
- Renewable and Non-Renewable energy
- · Computational Mathematics
- · Everyday's life in Chemistry
- · Food, Energy and Nutrition
- · Role of ICT during COVID-19 Pandemic
- · Soil, Plant and Atmosphere
- · Space Research
- · Role of Mathematics in Science and technology
- · Any other topics relevant to the theme

### Research Paper Details:

- · Research paper based on above sub-themes of the conference are invited.
- · Selected Papers will be published in conference proceedings with ISBN.
- · The abstract should not exceed 200 words including the title of the paper.
- Soft copy of the research paper/abstract should be sent by email to icast22@mncshahabad.com on or before February 22, 2022.

Note: Paper must be typed in 12 Font, Times New Roman with 1.5 line spacing in MS Word format. Title must be in 14 Font, Times New Roman. References must follow the latest APA/MLA standards.

- \* Participants will be provided E-Certificate
- \* Presentation of Research Paper is Mandatory

### MARKANDA NATIONAL COLLEGE SHAHABAD MARKANDA (HARYANA, INDIA)

INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY IN 21ST CENTURY (ICAST-22)

26 & 27th February 2022

10:00 a.m. - 5:00 p.m



Category	Fee upto February 18, 2022	Fee after February 18, 2022
• Foreign Delegates	• \$ 20	• \$ 25
经合作的 医克里斯多氏性 网络沙漠		
• Indian Delegates	• INR 500	• INR 700
Research Scholar/Student	• INR 500	• INR 500
Only Participation	• INR 300	• INR 300
<b>国际的国际中央中央</b>		

- Account Holder Name: Markanda National College
- Account Number: 0422010100000291
- · Bank & Branch: Punjab National Bank, Shahabad M N College Branch
- IFSC: PUNB0481100
- MICR Code: 136024103

\*For further queries you may call us at 9466435456, 9416348170, 9812351248

### MARKANDA NATIONAL COLLEGE SHAHABAD MARKANDA (HARYANA, INDIA)

INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY IN 21ST CENTURY (ICAST-22)

26 & 27th February, 2022

10:00 a.m. - 5:00 p.m

### 

Prof. Kuldip Singh Dhindsa, Eminent Scientist, Kurukshetra Prof. Ranjana Aggarwal, Director, CSIR-NIScPR, New Delhi

Prof. Anil Vashishth, Kurukshetra University, Kurukshetra

Prof. Aseem Miglani, CDLU, Sirsa

Prof. Faqir Chand, Kurukshetra University, Kurukshetra

Prof. Himanshu Aggarwal, Punjabi University, Patiala

Prof. Mahavir Singh, HPU, Shimla

Prof. Manish K. Kashyap, JNU, Dehli

Prof. Manu Sood, HPU, Shimla

Prof. Neena Jaggi, NIT, Kurukshetra

Prof. R. P. Chauhan, NIT, Kurukshetra

Prof. R.K. Modgil, Kurukshetra University, Kurukshetra

Prof. Rajender Nath, Kurukshetra University, Kurukshetra

Prof. Rajneesh Kumar, Kurukshetra University, Kurukshetra

Prof. Sanjeev Aggarwal, Kurukshetra University, Kurukshetra

Prof. Sushil Kumar Tomar, Panjab University, Chandigarh

Dr. Ajay Kumar Garg, Principal, Panipat

Dr. Anjana Jain, CSIR NAL, Bangaluru

Dr. Ashu Chaudhary, Kurukshetra University, Kurukshetra

Dr. Bijay Kumar Agarwal, SINP, Calcutta

Dr. Hardeep Anand, Kurukshetra University, Kurukshetra

Dr. Krishan Kant Gupta, Principal, Ballabhgarh

Dr. Mohamad Yusuf, Punjabi University Patiala

Dr. Raj Pal Singh, Principal, Ambala Cantt

Dr. Rajinder Singh, Principal, Ambala Cantt

Dr. Sanjay Kumar Goyal, Principal, Kaithal

Dr. Satish Kumar, Kurukshetra University, Kurukshetra

Dr. Shruti Aggarwal, Chandigarh University, Mohali

Dr. Surender Kumar, Scientist (DRDO)

Dr. Suresh Sharma, Abohar

Dr. Tribeni Saikia, Assam

Dr. Urmila, Kurukshetra University, Kurukshetra

Dr. Vinod Kumar, Central University of Haryana, Mahendragarh

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Ms. Manpreet Kaur





### REPORTOF THE CONFERENCE ON THE TOPIC "ADVANCES IN SCIENCE AND TECHNOLOGY IN 21ST CENTURY."

The Department of Science, Markanda National College, Shahabad Markanda organized a two Day Online International Conference on the topic Advances in science and technology in 21<sup>st</sup> century approved by the Department of Higher Education, Government of Haryana (India). The world is progressing exponentially as basic research and applied technologies advances. As a result, the topic is current, and it was chosen for the conference. The conference is organized with an objective to mark the occasion of National science day, which is celebrated on 28<sup>th</sup> Feb by the Government of India to pay homage to Nobel laureate Sir C.V. Raman for his discovery of Raman's effect.

The program on 1<sup>st</sup> day of this international conference started by Dr. Amit Kumar, Organising Secretary, with the lightning of lamp ceremony and Saraswati Vandana with a prayer to inculcate light and wisdom in everyone's life. Dr. Ashok Kumar, Principal of the college extended warm welcome to Chief Guest of Inaugural address, Prof. Som Nath Sachdeva, Vice chancellor, Kurukshetra University Kurukshetra, Key note speaker, Dr. Chandan Gosh, University of Massachusetts, USA, Dr. Krishan Kant, Principal Agaarwal College Ballabhgarh, Dr.Neera Raghav, Dr. Anjana Jain, all Resource persons, delegates, research scholars and students from various institutes of India and Abroad.

Dr. Jawahar Lal, convener of the conference, highlighted the importance and objectives of the conference. In his Chief Guest address, Prof. Som Nath Sachdeva, VC, KUK elaborated on relevant topics like Automation of industry, Internet of things, Industrial revolution, disruptive technologies etc.

Keynote speaker, Dr. Chandan Gosh spoke on social benefits of nuclear science and technology in health care, cancer diagnosis and treatment, power generation, food preservation, determination of age of Archeological objects, MRT, PET Scanning, to study Ocean currents, National security via X-Ray scanner, Smoke detector etc.

At the end of Inaugural address, Dr.Tarun Kumar delivered a vote of thanks to the distinguished guests and delegates.

1<sup>St</sup> Technical session was chaired by Dr. Krishan Kant, Principal, Agarwal College Ballabhgarh. He introduced resource persons - Dr.Neera Raghav and Dr. Anjana Jain to the delegates. In this session 1<sup>st</sup> invited talk was delivered by Prof. Dr.Neera Raghav, Chairperson, Dept. of Chemistry. KUK. She discussed about the meaning aim and objectives sustainable development and correlated with Green Chemistry. She focused on the different types of enzyme like Lipase, Amylase etc. 2<sup>nd</sup> invited talk was delivered by Dr. Anjana Jain, National Aerospace Laboratories, Bengaluru. She delivered talk on futuristic smart materials for advances in science and technology. She shared the valuable information about cantilever beams based on the configuration, power obtained from different sources, PVDF accelerometer, sensor evaluation on SARAS aircraft.

In the second technical session, three parallel sessions of Paper presentations were conducted. In the subject of Physics Dr. M.K. Kashyap, JNU, Delhi, In the subject of Chemistry, Prof Dr. M.Y. P.U. Patiala and in Maths Dr. Vishal Gupta, MMU, Mullana chaired the sessions. They assessed the quality of Research paper presentation and commented thoroughly. 70 Research papers were present on 1<sup>st</sup> day.

Sh. Suresh Kumar, Co-Convener of the conference started the Day 2 of the conference by presenting a brief report of Day 1. Dr. Ajay Kumar Garg, Principal, IB College, Panipat, chaired the technical session 3. Dr. Garg introduced the 1<sup>st</sup> resource person Dr.Deependra Tyagi, Research Assistant Professor, Southern University of Science and Technology, China. Dr.Deependra spoke on Lipid Nano particles for m-RNA delivery system: its promises, challenges and advances.

Prof. Rajinder Nath, Dept. of Computer Science and Applications, KUK was the Resource person of 2<sup>nd</sup> invited talk of the technical session. Dr. Rajinder discussed the rapid pace and progress of emerging technologies in the area of computing and technology. Sh. Suresh Kumar delivered a vote of thanks to chairperson and Resource Persons.

Dr. TarunKansal started the Technical session 4.

Dr. Rajpal Singh, Principal, G.M.N. College, Ambala Cantt chaired the session and invited Resource person Dr.Briz Mohan, Jimei University, Xiamen, China. He discussed about frame work of metal complexes and MOF's, various measurement methods of detection of optical/Luminsecent materials.

Prof. Ashish Arora from Inder Kumar Gujral, Punjab Technical University Punjab was the 2<sup>nd</sup> Resource person of this technical session. Dr. Arora discussed about Indian Contribution to the world of Mathematics.

Dr.TarunKansal delivered a vote of thanks to the chairperson and both resource persons of this session.

The 5<sup>th</sup> Technical session was conducted for oral research presentation in the subjects Physics, Chemistry, Mathematics and Computer Science on parallel platforms. Prof. Faqir

Chand, Chairperson of Dept. of Physics chaired and assessed the oral presentation in the subject of Physics, Dr. Sanjay Kumar Singh, Indian Institute of Technology, Indore, M.P. chaired and assessed the presentation in the subject of Chemistry, Dr. Rajnesh Kumar, Dept. of Mathematics, KUK, chaired and assessed the presentation in the subject of Mathematics and Dr. Vivek Sharma, Jai Parkash Mukand Lal Innovative Engineering and Technology Institute, Radour, Haryana chaired and assessed the oral presentation in the subject of Computer Science and Applications. More than 70 oral presentations were delivered by research scholars and faculty of different in all session of day 2.

The Valedictory session was conducted by Dr. Ajay Kumar Arora, Joint Secretary of this conference and he introduced the Chief guest Dr. Kuldeep Singh Dhindsa, Eminent Scientist. Dr. Dhindsa shared his valuable, informative and inspiring speech on the theme of the topic. He discussed about Innovation and research in science and technology and encouraged delegates to make progress through scientific temperament and principles.

In this conference 50Research scholars, 99 Assistant Professors, 15 Associate Professors and 01 Professor got registered and manyother participants joined via online mode from various institutes of India and Abroad and more than 140 Research papers were presented by the delegates in the subject of Physics, Chemistry, Mathematics and Computer Science.

(Convener)

Principal (Principal)
Markanda National College
Shahabad Markanda (Haryana)

### ONLINE INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY IN 21<sup>ST</sup> CENTURY (ICAST-22)

### PROGRAMME SCHEDULE February 26-27, 2022

DAY-1: FEBRUARY 26, 2022 (SATURDAY)

		INAU	GURAL SESSION (10:00-12:0	0 AM)	Mis to the state of
Lighting Maa Sai	g of Lamp and raswati Vandana	Virtual	Mode		10:00 am
Welcom	ne Address	Dr. Ash	ok Kumar, Principal		10:05 am
Objecti	ves of Conference	Dr. Jay	vahar Lal, Convener		10:20 am
Inaugu	ral Address	Vice-C Kuruk		rsity,	10: 35 am
Keynot	te Address	Depart	andan Ghosh, ment of Physics sity of Massachusetts Amherst	, USA	10:45 am
Vote of	f thanks	0.4 (0.04)	run Kansal		11:45 am
		TECH	INICAL SESSION-I (11:50-01	:50 PM)	
Chair	person: Dr. Krisha	n Kant (	Supta, ACB, Faridabad		
IT-1	Prof. Neera Rag Kurukshetra Un	hav, iversity,	Kurukshetra		11:50-12:50 pm
IT-2	Dr. Anjana Jain, CSIR-National A	Verospac	e Laboratories, Benguluru	jā —	12:50-01:50 pm
	TECHNICAL	SESSIO	N-II (01:50 PM ONWARDS) (	ORAL PRESEN	TATIONS
	llel Session –I r- PH01 – PH17		Parallel Session –II Paper CH01 – CH25	Parallel Sessio Paper MA01-N	n-III
Prof.	rperson Manish K Kashya aharlal Nehru Univ Delhi	p, ersity,	Chairperson Prof. Mohamad Yusuf, Punjabi University, Patiala	Chairperson Prof. Vishal G Maharishi Ma University, Mo	upta rkandeshwar

### ONLINE INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY IN 21<sup>ST</sup> CENTURY (ICAST-22) DAY-2: FEBRUARY 27, 2022 (SUNDAY)

		TECHNICAL SPACE			
haire	noneau P	TECHNICAL SESSION	N-III (10:00-12:00 PM)		
- man p	erson: Dr. Ajay Ku	mar Garg, I.B. Post Gra	duate College Panipat		
Т-3	Dr. Deependra Tv	ant	the same of the sa		
-	Prof. Rajender Na	ty of Science and Techno th,	ology, Shenzhen, China		10:00-11:00 am
T-4	Department of Co Kurukshetra Univ	omputer Science and Appersity, Kurukshetra	plications,		11:00-12:00 am
		TECHNICAL SESSION	N-IV (12:00-02:00 PM)		
Chair	person: Dr. R P Sing	gh, Gandhi Memorial Na	ntional College, Ambala	Cantt	
IT-5	Dr. Brij Mohan, .	limei University, Xiamer	n, China		12:00-01:00 pm
IT-6	Prof. Ashish Aror Punjab	a, Inder Kumar Gujral	Punjab Technical Univ	ersity,	01:00-02:00 pm
	TECHNICA	L SESSION-V (02:00- 0	4:00 PM) ORAL PRES	ENTAT	CIONS
Paral	lel Session –I	Parallel Session -11	Parallel Session -III		el Session –IV
Chairperson: Prof. Faqir Chand, Kurukshetra University, Kurukshetra		Chairperson: Chairperson: Dr. Raineesh Kumar. Dr. Santov Kumar.		Chairperson: Dr. Vivek Sharma, Jai Parkash Mukand Lai Innovative Engineering and Technology	
Paper	r- PH18 Onwards	Paper- MA16 Onwards	Paper- CH26 Onwards	Institute, Radaur Paper- CS01-CS10	
	V.	ALEDICTORY SESSIO	N (04:00 PM ONWAR	DS)	The second secon
Welc	ome Address	Dr. Ashok Kumar, Pri	•	04:00	0-04:10 pm
Vale	dictory Address	Prof. (Dr.) Kuldip Sing Scientist	gh Dhindsa, Eminent	04:10	9-04:40 pm
Conf	erence Report	Sh. Suresh Kumar, Co	-Convener	04:40	)-04:50 pm
Vote	of Thanks	Dr. Ajay Kumar Aror	a	05:00	nm

Paper presentation ID will be sent to all participants shortly

Markanda National College Haryena) महत्त साञ्चा (मगलमुखा) न कहा अरबव बनता ह मनुष्य णसा कम जय गुराचारा करकारार

### आत्मनिर्भर भारत निर्माण में विज्ञान व तकनीकी की भूमिका अहम : सोमनाथ सचदेवा

शाहरवाद मारकंडा, 28 फरवरी (मदन) : मारकंडा नैशनल कॉलेज शाहाबाद एवं उच्च शिक्षा विभाग, हरियाणा के सर्युक्त तत्वावधान में विज्ञान विभाग द्वारा 2 दिवसीय अंतर्राष्ट्रीय कॉन्फ्रेंस का शुभारंभ किया गया। इस वैविनार का मुख्य विंदु रहा- एडवांसेज इन साइंस एंड टैक्नोलॉजी इन ट्वेंटी फर्सट सेंचुरी। अंतर्राष्ट्रीय कॉन्फ्रेंस में 15 राज्यों से रसायन विज्ञान, भौतिकी विज्ञान, कम्प्यूटरविज्ञान, गणित व अन्य विषयों से संबंधित 200 से ज्यादा प्रतिभागी उपस्थित रहे। प्रथम सत्र में डा. अशोककुमार, प्राचार्य ने मुख्यातिथि कुलपति प्रोफैसर सोमनाथ सचदेवा, कुरुक्षेत्र विश्वविद्यालय का ऑनलाइन विधि से स्वागत किया तथा सभी देश-प्रदेश व विदेश से जुड़े हुए रिसोर्सपर्सन, डा. चंदन घोष, चेयरपसंन रिसर्च, डा. कृष्ण कान्त, शिक्षाविद्, शोध स्कॉलर व विद्यार्थियों आदि का स्वागत किया। उन्होंने राष्ट्रीय विज्ञान दिवस की शुभकामनाएं देते हुए बताया कि कॉलेज प्रत्येक वर्ष राष्ट्रीय विज्ञान दिवस पर विभिन्न प्रकारकी गतिविधियां आयोजित करता रहा है, जिनका निश्चित रूप से विद्यार्थियों को पूर्ण लाभ प्राप्त होता है।

इस वर्ष विज्ञान विभाग द्वारा 2 दिवसीय अंतर्राष्ट्रीय ऑनलाइन कॉन्फ्रेंस का आयोजन हुआ है। कॉन्फ्रेंस समन्वयकडा. जवाहर लाल ने कॉन्फ्रेंस की उपयोगिता, लक्ष्य व विशिष्ट विशेषताओं के बारे में मुख्यातिथि एवं



शाहाबाद में मारकंडा नैशनल कॉलेज में ऑनलाइन कॉन्फ्रेंस में भाग लेते प्रतिभागी।

प्रतिभागियों को बताते हुए कहा कि विज्ञान एवं तकनीकी के बिना कोई भी देश तरकों नहीं कर सकता।

प्रो. सोमनाथ सचदेवा ने विज्ञान व तकनीकी में प्रयुक्त होने वाले सभी यंत्रों, ऑटोमेशन ऑफट्रेडीशन आधुनिक मशीनें, इंटरनेट ऑफ थिंग्स, वाणी में सुधार, डिस्क्रिप्टिव टैक्नोलॉजी आदि के बारे में विस्तार पूर्वक जानकारी सांझा करते हुए बताया कि हमारे सभी शिक्षकवर्ग, रिसर्च स्कॉलर व विद्यार्थियों को विज्ञान जगत में होने वाले परिवर्तनों पर गंभीरता से सोच विचार करना होगा तथा बढ़ती हुई आबादी के साथ-साथ कार्वन उत्सर्जन की रोकथाम पर भी विचार करना होगा।

प्रारंभिक सत्र में डा. अमित कुमार द्वारा सत्र का संचालन किया गया। इस सत्र के चेयर पर्सन डा. कृष्ण कांत गुप्ता, प्राचार्य, अग्रवाल कॉलेज, बक्षभगढ़ रहे। उन्होंने प्रो. नीय राघव चेयरपसंन, रसायन विज्ञान विभाग, कुरुक्षेत्र विश्वविद्यालयका परिचय सभी प्रतिभागियों के समक्ष सांज्ञा किया।

नीरा राघव ने सतत विकास का अर्थ, उद्देश्य, प्रभाव व उनका रसायनी तथा एंजाइम से संबंधित शोध पर बहुत ही प्रभावी रूप से सभी प्रतिभागियों के समक्ष पावर प्वॉइंट ग्रेजेंटेशन के माध्यम से प्रस्तुत किया।

इसी सत्र में डा. अंजना जैन, राष्ट्रीय वैमिनकी, अनुसंधान वेंगलोर ने अपने व्याख्यान में भविष्य में होने वाले सुंदर पदार्थों का विज्ञान व तकनीकी के क्षेत्र में, उपयोग पर प्रकाश डाला। इस अवसर पर महाविद्यालय स्टाफ से प्रोफेसर पर महाविद्यालय स्टाफ से प्रोफेसर सुरेश कुमार, डा. अजय कुमार, प्रोफेसर मंजू गुप्ता, प्रोफेसर एस.एस. काजल, डाक्टर शालिनी शर्मा, डा. भूपेंद्र तंवर, प्रो. कल्पना, डा. चूहड़ सिंह, प्रो. सिद्धांत, डा. संदीप शिवराज श्योराण, उपस्थित थे।

पंजाब केसरी Tue,01 March 2022 ई-पेपर Edition: kurukshetra

Edition: kurukshetra kesari, Page no. 6

# आत्म निर्भर भारत के निर्माण में विज्ञान व तकनीकी की अहम भूमिका : प्रो. सोमनाथ

का शुभाराभ सरस्क्री बंदना से टेवनोलॉबी इन ट्वेंटी फर्स्ट सेंचुरी'। कार्यक्रम का मुख्य बिंदु रहा 'एडवासेन इन साईस एंड कार्रिस का सुभारंभ किया गया। इस वेबीनार व्यान विभाग द्वारा दो दिनसीय अंतराष्ट्रीय क्षत विभाग हरियामा के संयुक्त तत्त्वाधान में रुपार) : महक्वा नेशन्त कर्षांच एवं उत्तव तालाबाद पारकहा, 26 फरवरी (विजय

विश्वविद्यालय का ऑक्लाइन सोमनाथ सचदेवा मुख्यातिषि कुल्पति प्रोफेसर प्राचार्य डा. अशोक ज्यस्थित रहे। प्रथम सब मे संबंधित 200 से ज्यादा प्रतिभागी भौतिको विज्ञान, में 15 राज्यों से रसायन विज्ञान, वंतान, गणित व अन्य विवयों से हुआ। इस अंतरपट्टीय काफ्रिस जुमार ने कुरुस्त्र व क्षंपुटर

अयोजित करता रहा है, जिनका निश्चित रूप से विवस पर विभिन्न प्रकार को गतिविधिया गुभकामनाएं देते हुए बताया कि मास्कंडा रेगाल कॉलेज प्रत्येक वर्ष राष्ट्रीय विज्ञान स्वाप्त किया। उन्होंने राष्ट्रीय विज्ञान दिवस की कान रिष्प्रविद शोध स्कॉल्स व विद्यार्थियों का ड. चन्दन घोष चेयर पर्सन रिसर्च, डा. कृष्ण देश-प्रदेश व क्टिंश से जुड़े हुए स्सिस पर्सन

Service Services

म्हान विज्ञान जगत में कार्य करने वाले व्यक्तिच प्रोफेसर, विद्यार्थी विदेश व देश से संबंधित यह है कि हमारे सभी प्रतिभागी, रिसर्च स्कॉल्स, कांप्रेस को आयोजित करवाने का मुख्य उद्देश्य ऑनलाइन कांग्रेस का अयोजन हुआ है। इस विज्ञान विभाग इस से दिवसीय अंतरपट्टीय विद्याधियों को पूर्ण लाभ प्राप्त होता है। इस वर्ष

विधारियातय का आन्ताइन विधि से स्वागत किया तथा सभी शारावाद : ऑललाइन कॉफ्रेंस में भाग तेते मुख्यातिथि सोमनाय सब्देवा व अन्य। विषया पर अपना पकड़ मजपूत

कार्यों में भी विज्ञान व तकनीको से जुड़े हुए हैं। से जुड़ कर अपनी-अपनी योग्यता अनुसार देश तरको नहीं कर समता। हम अपने दैनिक कह कि विज्ञान एवं तकनीकों के बिना कोई भी में मुख्यतिथ एवं प्रतिभागियों को बताते हुए उपयोगिता, तस्य व विशिष्ट विशेषताओं के बारे अपने ज्ञान में बुद्धि कर सकें। समन्यक डा. जवाहरताल ने कफ्रिंस की

> कि हमारे सभी शिक्षक वर्ग, रिसर्च स्कॉल्स व व्यतार पूर्वक जानकारी संद्धा करते हुए बताया सुधार, डिस्किटिय टेक्नोलॉजी आदि के बारे में प्रोफेसर सोमनाथ संबदेश मुलपति कुरुक्ष आयुन्ति मशीनें, इंटरनेट ऑफ थिम, बागी में होने वाले सभी यंत्रों, ऑटोमेशन ऑफ ट्रेडीशन विश्वविद्यालय ने विज्ञान व तकनोक्ती में प्रयुक्त

को भी सांशा करते हुए उन्होंने शिक्षा नीति के फिशन के तहन होगा। भारत की नई राष्ट्रीय रोकथाम पर भी विचार करना साथ कार्यन उसर्जन की बढ़तों हुई अखादी के साथ-से सोच विचार करना होगा तथा होने वाले परिवर्तनों पर गंभीरता विद्यार्थियों को विज्ञान जगत में

प्रो. सिद्धांत, डा. संदीप शर्मारान मौजूद रहे ड. भूषेर तंत्र, प्रोकत्सना, ड. चूहड़ सिंह गुमा, प्रो एसर्स काजल, ड. गारिनी रर्मा, से प्रो. सुरेश कुमार, इ. अजय कुमार, प्रो. मंजू प्रेषित किया। इस मौके पर महाविद्यालय स्टाफ वर्ग, रिसर्च स्कॉलर व विद्यार्थियों का धन्यवाद सभी अतिथ, चेयर पर्सन, रिसोर्स पर्सन, दिसक कंसल ऑगेनइजिंग सेकेट्रो गणित विभाग द्वारा

## Details of Chief Guest/Resource Persons/Chairpersons of ICAST-22

S. No 1 2 2 3 4	C. KUK  Mass, USA  a, ACB. Faridabad  NAL. Benguluru  ap.	Role Inaugural Keynote Chairperson Resource person Resource Person Chairperson	cghosh@umass.edu. chandabindu@gmail.com <kkant67@gmail.com> Nraghav.chem@gmail.com <anjanajainnal@gmail.com> <mkkashyap@jnu.ac.in></mkkashyap@jnu.ac.in></anjanajainnal@gmail.com></kkant67@gmail.com>
	Prof. Mohamad Yusuf, Punjabi University, Patiala	Chairperson	1
	Dr. Ajay Kumar Garg, I.B. (PG) College Panipat	Chairperson	1 1
9	Dr. Deependra Tyagi Southern University of Science and Technology Canada	Resource Person	
10	Prof. Rajender Nath, Deptt. of CSA, KU, Kurukshetra	Resource Person	
=	Dr. R P Singh. GMN College Ambala Cantt	Chairperson	1
12	Dr. Brij Mohan. Jimei University, Xiamen China	Resource Person	1
13	Prof. Ashish Arora	Resource Person	
15	Dr. Rajneesh Kumar, KUK	Chair Person	1 1
16	Dr. Vishal Gupta, MMU Mullana	Chairperson	
17	Dr. Vivek Sharma, JMIETI, Radaur	Chair Person	
18	Prof. (Dr.) Kuldip Singh Dhindsa	Valedictory	



S. No.	Name of Authors	Title of Abstract	Name of Presenter	Name of Institute	Discipline Subject
MA01	Madhu Aggarwal	Integral Type Contractions and Fixed- Point Results in Generalized Metric Spaces	Madhu Aggarwal	Department of Mathematics, Vaish College, Rohtak-124001(INDIA)	Watths
MA02	Sanjay Kumar	Deformation in fluid saturated porous medium underlying a inviscid fluid layer	Sanjay Kumar	Department of Mathematics, R.K.S.D. College,Kaithal, Haryana, India	Matte
MA03	Vishakha Gupta	Effects of porosity on wave propagation in piezoelectric materials having crystal symmetry 4, 4mm, 422	Vishakha Gupta	Department of Mathematics. Dyal singh college Karnal	Matte
MA04	Pooja Dhawan	An Overview of the Development of Fixed Point Theory	Pooja Dhawan	Department of Mathematics & Humanities Maharishi Markandeshwar (Deemed To Be University), Mullana, Ambula (Haryana), India	Matte
MA05	Shakuntla Singla	An Overview: Reliability, Availability and Maintainability	Shakuntla Singla	Maharishi Markendeshwar Deemed to be University, Mullana	Matte
N1A06	Rakesh Kumar	Some concepts related to fuzzy information measures with applications in diverse decision-making problems	Rakesh Kumar	Department of Mathematics, Dr. B. R. Ambedkar, Govt college, Kaithal (Haryana) 132027, India	Matte
1.07	Nidhi Sharma	Mathematical modelling of wave propagation at human Muscle- compact bone	Nidhi Sharma	Department of Mathematics, Maharishi Markandeshwar University(MMDU) Mullana (Ambala)- Haryana	Maths



MA13 F	MA12 H	MA11 S	MA10 N	MA09 V	MA08 S	S. No.
Renu Rani, Jagdish Nandal and Anil Kumar <sup>3</sup>	Hema Sukhija	Rajeev Kumar , Shalu Saini, Rahul	Monika	Jonty Jindal and Vishal Gupta	Seema Bansal	Name of Authors
Deformations in Two Monoclinic Welded Half-Spaces due to Variable Strike-Slip Fault	Review paper on different theories of thermoleasticity applied on porouspiezo materials	Traveling Wave Solutions Of Fornberg-Whitman Equation by Exp( $\varphi(\xi)$ ) Expansion Method	A Reliability Model with Conditional Warranty and Consideration of Insurance with Depreciation	Some Novel Fixed Point Outcomes in Fuzzy Metric Spaces via Common property (E.A)	An application of biofluid mechanics: Blood flow in a stenosed artery	Title of Abstract
Renu Rani	Hema Sukhija	Rajeev Kumar, Shalu Saini	Monika	Jonty Jindal	Seema Bansal	Name of Presenter
Assistant Professor, G. v. M. Giris Conge (Sonepat) Professor, Department of Mathematics, Maharshi Dayanand Universiy (Rohtak) <sup>3</sup> Associate Professor, Pt. N.R.S. Govt. College (Rohtak)	Department of Mathematics, Arya Kaliya Mahavidyalya, Shahabad (Markanda), India	Departement of Mathematics, Maharishi Markandeshwar University, Mullana, Ambala-133001(Haryana), India	Department of Mathematics, Kurukshetra University Kurukshetra, Haryana, 136118	Department of Mathematics, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, Haryana, India	Deptt. of Mathematics, Vaish College, Bhiwani, Haryana	Name of Institute
Maths	Maths	Maths	Maths	Maths	Maths	Subject



Maths	Ladwa, Haryana, India. Research Scholar, Department of Mathematics and Humanities, Maharishi Markandeshwar (Deemed to be University) Mullana-Ambala, Haryana-133207, India. Department of Mathematics and Humanities, Maharishi Markandeshwar (Deemed to be University) Mullana-Ambala, Haryana-133207, India	Priyanka	Effect of variable thermal conductivity in a Generalized Thermo-micro stretch Elastic Solid under Green Naghdi Theory	Priyanka and Praveen Ailawalia	MA15
Maths	Department of Mathematics and Humanities, Maharishi Markandeshwar University (deemed to be) Mullana, Haryana, India	Anchal Sharma	Thermoelastic interactions in Functionally Graded Micropolar thermoelastic medium possessing cubic symmetry	Anchal Sharma, Praveen Ailawalia	MA14
Discipline/ Subject	Name of Institute	Name of Presenter	Title of Abstract	Name of Authors	S. No.





MA24	MA23	MA22	MA21	MA20	MA19	MAI8	MA17	MA16	S. No.
Vandana Saini Deepak Gupta	Renu Bala	Sujata Goyal	Diksha Mangla Shakuntla Singla	Prabhjot Kaur	Shilpa Rani Shakuntla Singla	Sangeeta	Aarti Saini Deepak Gupta	Nitika Garg Vishal Gupta	Name of Authors
Application of priority based feedback queue model to passport office system	An Introduction to Development of the Theory of Frames	A generalization of fixed point theorem of Reich	Reliability – A whole World for a Sysytem	Role of Mathematics in Science, Technology and other Fields	An Overview :K:N::G susceptibility analysis using RPGT	Analysis of Serial Queues linked with Non-Serial Service Channels Characterized by feedback and Customers' behavior	Analysis of Complex Priority Bi- Series Bulk Queue Network	Role of Mathematics in Science and Technology	Title of Abstract
Vandana Saini	Renu Bala	Sujata Goyal	Diksha Mangla	Prabhjot Kaur	Shilpa Rani	Sangeeta	Aarti Saini	Nitika Garg	Name of Presenter
*Research Scholar (Mathematics), MNIDU, Mullana  **Professor & Head, Deptt.of Mathematics, MMDU, Mullana	Research Scholar at NIILM University, Kaithal	GMN College Ambala Cantt	Reaseacher Scholar Maharaishi Markedeshwer Deemed to be University Mullana Associate Professor Maharaishi Markedeshwer Deemed to be University, Mullana	Dayanand Mahila Mahavidyalaya. Kurukshetra	Reaseacher Scholar Maharaishi Markedeshwer Deemed to be University Mullana Associate Professor Maharaishi Markedeshwer Deemed to be University, Mullana	Maharishi Markandeshwar (Deemed to be University) Mullana Distt, Ambala, Haryana	Maharishi Markandeshwar (Deemed to be University) Mullana Distt. Ambala, Haryana	Maharishi Markandeshwar (Deemed to be University) Mullana Distt. Ambala, Haryana	Name of Institute
Maths	Maths	Maths	Maths	Maths	Maths	Maths	Maths	Maths	Discipline/ Subject



S. No. MA25	Name of Authors  Komalpreet Kaur Shakuntla Singla  Rachna, Shakuntla.  A.K.Lal, S.S.Bhatia	Analytical study of a dairy plant using RPGT  Comparative Analysis of A Two Unit Standby System and Three Unit Standby System with installation cost of single unit of double capacity	Name of Presenter Komalpreet Kaur Rachna	Name of Institute  Research Scholar Maharishi Markandeshwar Deemed to be University, Mullana Associate Professor Maharishi Markandeshwar Deemed to be University, Mullana  Department of Applied Sciences and Humanities, P.I.E.T ,Panipat  Department of Mathematics and Humanities.  M.M. Deemed to be University, Mullana.  Ambala, India
MA27	S.S.Bnatia Tamanna Satish Kumar	or single unit of double capacity instead of two units.  A dissimilarity measure based on Fermatean Intuitionistic Fuzzy sets	Tamanna	Ambala, India  cd School of Mathematics, T.I.E.T., Patiala, Punjab. India  Deptt.of Mathematics, MMDU, Mullana
MA28	Anupam Khanna	A study on Free Vibration of Tapered Square Plate	Anupam Khanna	Department of Mathematics, DAV College Sadhaura, Yamunanagar, Haryana, INDIA
MA29	Narinder Kaur	Theoretical study on thermo-visco- elastic model with clamped ends	Narinder Kaur	Department of Mathematics, Department of Math Stat & Department of Math Stat & Department of Math Stat & Department of Mathematics, Punjab Agricultural University, India
MA30	Rupinderjit Kaur Dhanoa	Operator versions of generalized inequalities	Rupinderjit Kaur Dhanoa	Department of Mathematics, Department of Math Stat & Department of Math Stat & Department of Math Stat & Department of Mathematics, Punjab Agricultural University, India
MA31	Praveen Ailawalia	Two dimensional analysis in a Microstretch Thermoelastic Mass Diffusion Medium with Dual Phase Lag under laser pulse heating	Praveen Ailawalia	
MA32	Rozy Gupta	Study on Prevalence of Zinc and Anemia Association in School Children of India	Rozy Gupta	



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MA34	MA33	S. No.
Gurdas Ram and Vikrant Narwal	Adesh Kumar Tripathi Vishal Gupta	S. No. Name of Authors
Coding Results for a Finite Partition in Product MV-Algebras Corresponding to Tsallis Measure	New Results on Fixed Point in Fuzzy Metric Spaces Using JCLR-property	Title of Abstract
Vikrant Narwal Gurdas Ram	Adesh Kumar Tripathi	Name of Presenter
Department of Mathematics, Maharishi Markandeshwar Deemed to be University, Mullana Ambala, India.	Department of Mathematics, Maharisi Markandeshwar (Deemed to be University) Mullana, Ambala, Haryana, India	Name of Institute
Maths	Maths	Discipline/ Subject



. No.	Name of Authors	Title of Abstract	Name of Presenter	Name of Institute	Discipline/ Subject
H01	Ms. Indu Rani. Prof'S G. Warkar and Prof'Anil Kumar	Carboxymethyl Tamarind Gum Based Hydrogels for Drug Delivery Applications	Indu Rani	Department of Applied Chemistry, Delhi Technological University, New Delhi-110042, India	Chemistry
CH02	Abhay Singh	Corrosion inhibition of 304 stainless steel using neem leaves extract in sulphuric acid solution	Abhay Singh	Department of Chemistry, K.L.P. College, Rewari, India	Chemistry
CH03	Neha Aggarwal	Chemistry in Everyday's Life: A Brief Overview	Ncha Aggarwal	Department of Chemistry, Gandhi Memorial National College, Ambala Cantt. 133001, Haryana	Chemistry
CH04	Manju Singh	High Pressure Processing Treatments For Improved Food Quality	Manju Singh	KVA DAV College for women, Karnal 132001	Chemistry
СН05	Ramesh Kumar	Proficient Removal of Toxic Dye Contaminants Using Surface Functionalized Magnetite Nanoparticles	Ramesh Kumar	Department of Chemistry, Kurukshetra University Kurukshetra-136119, Haryana (India)	Chemistry
СН06	Jyoti Yadav, Yashwant Kumar, Gayathri S. Singaraju & Shivpr asad Patil	Interaction of chloramphenicol with titin 127 probed using single-molecule	Jyoti Yadav	Department of Chemistry, HSER Pune	Chemistry
C1107	Amit Kumar	Tobacco smoking and its Health impact	Amit Kumar	Department of Chemistry, Indira Gandhi National College, Ladwa, Kurukshetra- 136132, (Haryana) India	Chemistr
CH08	Ravish Kumar Chauhan	Testing of adulterants in foods using some common chemicals	Ravish Kumar Chauhan	Department of Chemistry, Indira Gandhi National College, Ladwa, Kurukshetra- 136132, (Haryana) India	Chemistr



		DAY-1 (FEBR			Discipline Subject
	Name of Authors	Title of Abstract	Name of Presenter	Name of Institute  Department of Chemistry, Maharishi  (Department of Chemistry),	Chemistry
S. No.		Improved Tour's	Rohit	Markandeshwar (Deemed to be University). Mullana, Ambala, 133203, Haryana, India	
CH09	Rohit & Joginder Singh	method for Graphene oxide; Synthesis & its Characterization  Novel metal complexes incorporating	Santosh Kumar	Department of Chemistry, historia	Chemistry
	Santosh Kumar Dubey	Novel metal complexes incorporate bidentate ligands: Synthetic, spectral and structural characterization	Dubey	University Kurukshetta - 130 115 115	
CH10	Dubey	Green Laboratory Practices: Step	T. hou	*, Associate Professor, Chemistry Deptt., Arya Kanya Mahavidyalaya, Shahabad (M).	Chemistry
CH11	Aarti Trehan. Rajesh Trehan	Towards Proactive Environmental Protection	Aarti Trehan	**Associate Professor, Chemistry Departs SGGSJ Govt College Paonta Salub (HP)	
CH12	Deepak Wadhwa and Vikram Kumar	Socio-economic Consequences of OTC, Unused and Expired Medication: A review	Deepak Wadhwa and Vikram Kumar	<sup>1</sup> Department of Chemistry, CBLU, Bhiwani, India-127021 <sup>2</sup> Department of Chemistry, LB, College, Panipat, Haryana, India-132103	Chemistry
СН13	Pinki and Ashu Chaudhary	Stepwise Synthesis of Heterobimetallic Derivatives of group Four or Fourteen Transition Metal Dichlorides and their Diverse Chemical and Biochemical	Pinki	Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India-136119	Chemistry
CH14	Subhash and Ashu Chaudhary	Pharmacologically significant tetraaza Cobalt(II) macrocyclic complexes: Synthesis, spectral studies and comparative biological assessment	Subhash	Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India-136119	Chemistr



A Superior	THE CHARLES OF SHEET	TECHNOLOGI I DAY- 1 (FEBR	UARY 26.	2022)	Subject .
T.			Name of Presenter	Name of Institute	Chemistry
S. No.	Name of Authors Mamta and Ashu	Title of Abstract Synthesis, Spectroscopic Elucidation and Biological Evaluation of Metallomacrocycles	Mamta	University, Kurusan	Chemistry
CH15	Chaudhary  Virender, Ashwani	A Pyrazolo[1,5-a pyrimidine azo dye	Virender	University, Kuruksherian Baha Mastnath	Chemistry
CH16	Kumar	and colorimetric detections: Synthesis and	Jasbir Singh	Linuxgreily Asulai Donai	
CH17	Jashir Singh. Navcen Talniya	Application in Bloogse	Meenu	Department of Chemistry, Aggarwal College Ballabgarh, Faridabad, Haryana	Chemistry
CH18	Meenu Aggarwal, Krishan Kant, Chander Attri and	Highly efficient authorities materials derived from agricultural bio-waste	Aggarwal	Department of Physics, Aggarwan Ballabgarh, Faridabad, Haryana	
	Devender Gehlawat Chinky Kochar,	Low cost highly efficient blochar based novel composite for removal of heavy	Chinky Kochar	Academy of Scientific and Innovative Research (AcSIR), Ghaziabad 201002, India CSIR-National Physical Laboratory, Dr. K.S.	Chemistry
CH19	Lakhan Taneja, S.Swarupa Tripathy	metal from water  A Low cost renewable bio-waste		Krishnan Marg, New Delhi 110012. India Academy of Scientific and Innovative Research	
СН20	Lakhan Taneja, Chinky Kochar. S Swarupa Tripathy	adsorbent for removal of fluoride from drinking water	Lakhan Tancja	(AeSIR), Ghaziabad 201002, India CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi 110012, India	Chemistry
(1121	Ankii and Surender Kumar	5'-silylated containing 3'-1,2,3-triazole- 2'-deoxythymidine synthesized, characterize and their evaluation as anticancer agents	Ankit	Bioorganic Laboratory, Department of Chemistry, Institute of Integrated & Honors Studies (IIHS), Kurukshetra University, Kurukshetra-136 119, Haryana	Chemistry
CH22	Parveen Kumari	Advanced Applications of Ferrite Nanoparticles	Parveen Kumari	Department of Chemistry, S D (PG) College, Panipat	Chemistry



S. No.	Name of Authors	Title of Abstract	Name of Presenter	Name of Institute	Discipline Subject
CH23	Priya Phogat, V.B. Taxak, R. K. Malik	Investigation into structural and optical properties of green emanating Er <sup>3+</sup> doped Ba <sub>2</sub> YV <sub>3</sub> O <sub>11</sub> nanophosphor	Priya Phogat	Department of Chemistry, Maharshi Dayanand University, Rohtak - 124001, India	Chemistry
CH24	Shayoraj. Shivani. Satish Kumar	Study of Some Biobased acrylate and its Applications	Shayoraj. Shivani, Satish kumar	Research Scholar, Department of Chemistry, Kurukshetra University, Kurukshetra, India- 136119 Research Scholar, Department of Chemistry, Kurukshetra University, Kurukshetra, India- 136119 Assistant Professor (Chemistry), Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, India-136119	Chemistry
CH25	Geeta, Satish kumar	Phosphorylated Chitosan: Synthesis and Characterization	Geeta	Research Scholar, Department of Chemistry, Kurukshetra University, Kurukshetra, India- 136119 Assistant Professor (Chemistry), Institute of Integrated & Honors Studies, Kurukshetra University, Kurukshetra, India-136119	Chemistry



	DAY-1 (FEBR		Name of Institute	Discipline Subject
Name of Authors	Title of Abstract	Presenter	treest of Physics, Aggarwal College	Physics
	Electrical conductivity of gamma-rays	Devenue	Ballabgarh, Faridabad Haryana	
	exposed silver nanowires		Department of Physics, Mukand Lal	Physics
	Structural, Electronic and Optical	Ankur Taya	National College, Yamuna Vagar	
Ankur Taya Manish K. Kashyap	studies of mixed Lead, Till, and		(Haryana), India Department of Physics, Kurukshetra University, Kurukshetra 136119, Haryana,	
			India School of Physical Sciences, Jawaharlal School of Physical Sciences, Jawaharlal	
	at Joned	Neetika and	PG Department of Physics, G.S.	Physics
Neetika and Supriya Goyal	nanophosphors based on como		and the state of Physics, Dyal Singh College,	Physics
	Synthesis method Fourier Transform Infrared Spectrum	Devinder	Karnal - 132001, Haryana, mon	Physics
Devinder Singh	of 1.8-Diiodooctane		G.G.D.S.D. College, Palwal, Haryana, India	
Poonam Pahuja		Pahuja	Department of Physics, Sanatan Dharma	Physics
	e Titonium Dioxide (1.02)		ambala (antt-155001, 1	
Krishan Kumar, Virender Singh	Modification on its photocatalytic Application to Pollution Treatment-A Review		Department of Electronics Sciences Kurukshetra University, Kurukshetra- 136119, India	
	Name of Authors  Devender Gehlawat  Ankur Taya' Manish K. Kashyap  Neetika and Supriya Goyal  Devinder Singh  Poonam Pahuja  R.L. Dhiman, Krishan Kumar,	Name of Authors  Devender Gehlawat  Ankur Taya' Manish K. Kashyap  Neetika and Supriya Goyal  Devinder Singh  Poonam Pahuja  Poonam Pahuja  R.L. Dhiman, Krishan Kumar, Virender Singh  Title of Abstract  Electrical conductivity of gamma-rays exposed silver nanowires  Structural, Electronic and Optical studies of mixed Lead, Tin, and Germanium hybrid halide perovskites for photovoltaic applications  Review of rare earth doped nanophosphors based on combustion synthesis method  Fourier Transform Infrared Spectrum of 1,8-Diiodooctane  Multiferroic Composites: Need in Present Technology  Impact of Titanium Dioxide (TiO <sub>2</sub> ) Modification on its photocatalytic Application to Pollution Treatment-A	Name of Authors   Title of Abstract   Presenter	Devender Gehlawat   Electrical conductivity of gamma-rays exposed silver nanowires   Devender Gehlawat   Electronic and Optical studies of mixed Lead, Tin, and Germanium hybrid halide perovskites for photovoltaic applications   Neetika and Supriya Goyal   Devinder Singh   Poonam Pahuja   Poonam Pahuja   Poonam Pahuja   Poonam Pahuja   Present Technology   R.L. Dhiman, Krishan Kumar, Virender Singh   Received according to the poonam Pahuja   R.L. Dhiman, Krishan Kumar, Virender Singh   Poonam Pahuja   College, Ambala Cantt133001, India Department of Physics, Aggarwal College Ballabgarh, Faridabad Haryana   Department of Physics, Mukand Lal National College, Vamuna Nagar-136119   (Haryana), India Department of Physics, Kurukshetra University, Kurukshetra 136119, Haryana, India School of Physical Sciences, Jawaharlal National College, Patiala-147001, Punjab   Poonam Pahuja   Present Technology   Poonam Pahuja   Poonam Pahuja   Poonam Pahuja   Present Technology   Poonam Pahuja   Poonam Pahuja



PH07	Sohan Lal* and Deepika	Study of ion irradiation on optical properties of liquid crystalline polyurethane	Sohan Lal	Department of Physics, National Institute of Technology, Kurukshetra, India	Physics
PH08	S. K. Pandey	MoS <sub>2</sub> monolayers sols preparation and it's optical characterization for solar applications	S. K. Pandey	Dept. of Physics, G.M.N. College, Ambala Cantt - 133001, India	Physics
PH09	Sonia	Importance of Science and Technology in Disaster Risk Reduction	Sonia	Department of Physics, I.B.P.G.College, Panipat, Haryana	Physics
PH10	Richa, Rajive Kumar	Theoretical Estimation of L X-Ray Fluorescence Cross-Sections for <sup>5</sup> Sb and <sup>5</sup> Te at Excitation Energy of 6 keV and 8 keV	Richa	Department of Physics, NIILM University, Kaithal (Haryana)	Physics
PHII	Priyanka, Jawahar Lal and Savita Gill <sup>(*)</sup>	Signal to Noise Ratio in Coherent anti- Stokes Raman Scattering(CARS) Optical Process	Priyanka	Department of Applied Science, University Institute of Engineering and Technology, Kurukshetra University Kurukshetra, 136119, India Department of Physics, Markanda National College Shahabad Markanda, 136135, India	Physics
PH12	Minakshi Devendra Mohan	A Review: On Effect of Different types of doping on Zinc Oxide Thin Films	Minakshi	Department of Physics, Guru Jambheswar University of Science and Technology, Hisar	Physics
PH13	Poonam Siwatch	Effect of molarity of solutes on the structure and morphology of Nickel Cobalt Oxide nanoparticles	Poonam Siwatch	Department of Physics, Arya Kanya Mahavidyalaya, Shahabad(M),Haryana, 136135, India	Physics



The state of the s	TO CHANGE AND	DAY- 1 (FEBR	Priya Rani	University of Science and Technology.	Physics
PH14	Priya Rani', Ranjeet Dalal, Sunita Srivastava'	Graphene Quantum 175		125001, India Department of Physics, Central University of Haryana, Jant-Pali, Mahendergarh 123029, India India	
PH15	Gurvinder, Divya Gupta, Manu Bura, Nisha	Structural and Optical Properties of Ge Thin Film Grown on Glass by RF Sputtering	Gurvinder Manu Bura	Deparment of 20014, India  Deparment of Physics, Kurukshetra University, Kurukshetra, 136119, India	Physics
	Malik, Arun Kumar and Sanjeev Aggarwal Shikha Bhatt and	Rotational analogous of Quaternionic	Shikha Bhatt	Department of Physics G. B. Pant University of Agriculture and Technology, Pantnagar-	Physics
H16	B.C. Chanyal	Rotational analogous of Dirac equation in electromagnetic field		263145, Uttarakhand, ndia	



PH17	Mandeep Kaur,	Angular distribution of electrons	Mandeep	Department of Physics, Guru Nanak Khalsa	Physics
	Gurpreet Kaur,	clastically scattered from methane	Kaur	College, Yamuna Nagar, 135 001, HR, India	
	Arvind Kumar	molecule		Department of Physics, S. A. A. A Govt. P.G.	
	Jain, Harsh			College, Kalka 133 302, HR, India	
	Mohan, and Parjit			Department of Physics, M. L. N. College,	
	S. Singh			Yamuna Nagar, 135 001, HR, India	
				Department of Physics, Punjabi University,	
				Patiala 147 002, Pb, India	
				Department of Physics (retired), M. L. N.	
		,		College, Yamuna Nagar, 135 001, HR, India	į
				Department of Physics (retired), Punjabi	
				University, Patiala 147 002, Pb, India	



and Suresh Review	Virender Singh Applie	Krishan Kumar, Modifi	PH06 R.L. Dhiman, Impac	Presen	PHOS Poonam Pahuja Multif	of 1,8-	PH04 Devinder Singh Fourie		Supriya Goyal nanop	PH03 Neetika and Review								PH02 Ankur Taya' Struct		Gehlawat	PH01 Devender Electr		S. No. Name of Authors Title of
	Application to Pollution Treatment-A Kumar	Modification on its photocatalytic Krishan	Impact of Titanium Dioxide (TiO2) R.L. Dhiman	Present Technology Pahuja	Multiferroic Composites: Need in Poonam	of 1,8-Diiodooctane Singh	Fourier Transform Infrared Spectrum Devinder	synthesis method	nanophosphors based on combustion Supriya Goyal	Review of rare earth doped Neetika and					for photovoltaic applications	Germanium hybrid halide perovskites	studies of mixed Lead, Tin, and	Structural, Electronic and Optical Ankur Taya	The state of the s	exposed silver nanowires Gehlawat	Electrical conductivity of gamma-rays Devender	Presenter	Title of Abstract Name of
Kurukshetra University, Kurukshetra-	Department of Electronics Science,	College, Ambala Cantt133001, India		ļ	G.G.D.S.D. College, Palwal, Haryana, India	Karnal – 132001, Haryana, India	Department of Physics, Dyal Singh College,		yal Khalsa College, Patiala-147001, Punjab	-P	Nehru University, New Delhi 110070, India	School of Physical Sciences, Jawaharlal	India	University, Kurukshetra 136119, Haryana,	Department of Physics, Kurukshetra	(Haryana), India	National College, Yamuna Nagar-136119			Ballabgarh, Faridabad Haryana	Department of Physics, Aggarwal College	一 一 一	Name of Institute
			Physics		Physics		Physics			Physics		_			-			Physics			Physics	Subject	Discipline/



	Mahavidyalaya, Shahabad(M),Haryana,	Siwatch	structure and morphology of Nickel Cobalt Oxide nanoparticles		
Physics	Department of Physics, Arva Kanya	Poonam	Effect of molarity of solutes on the	Poonam Siwatch	24.3
	University of Science and Technology, Hisar		of doping on Zinc Oxide Thin Films	Devendra Mohan	`
<b>Physics</b>	Department of Physics, Guru Jambheswar	Minakshi	A Review: On Effect of Different types	Minakshi	PH12
	Markanda, 136135, India				\
	Markanda National College Shahabad				
	Department of Physics,				
	Kurukshetra,136119, India				
	and Technology, Kurukshetra University		Optical Process	Savita Gill(*)	
	Institute of Engineering		Stokes Raman Scattering(CARS)	Jawahar Lal and	
Physics	* Department of Applied Science, University	Priyanka	Signal to Noise Ratio in Coherent anti, Priyanka	Priyanka,	11114
			and 8 keV		•
			and <sup>5</sup> Te at Excitation Energy of 6 keV		
	Kaithal (Haryana)		Fluorescence Cross-Sections for 5Sb	Kumar	
Physics	Department of Physics, NIILM University,	Richa	Theoretical Estimation of L X-Ray	Richa, Rajive	PH10
	Panipat, Haryana		in Disaster Risk Reduction		
Physics	Department of Physics, I.B.P.G.College,	Sonia	Importance of Science and Technology	Sonia	PH09
			solar applications		
	Cantt - 133001, India		and it's optical characterization for		
Physics	Dept. of Physics, G.M.N. College, Ambala	S. K. Pandey	MoS <sub>2</sub> monolayers sols preparation	S. K. Pandey	PH08
			polyurethane		
	Technology, Kurukshetra, India		properties of liquid crystalline	Deepika	
Physics	Department of Physics, National Institute of	Sohan Lal	Study of ion irradiation on optical	Sohan Lal* and	PH07



Physi	Department of Physics, G. B. Pant University Physics of Agriculture and Technology, Pantnagar-263145, Uttarakhand, India	Shikha Bhatt	Rotational analogous of Quaternionic Dirac equation in electromagnetic field	Shikha Bhatt and B.C. Chanyal	PH 16
			Sputtering	Bura, Nisha Malik, Arun Kumar and Sanjeev Aggarwal	
Physics	Deparment of Physics, Kurukshetra University, Kurukshetra, 136119, India	Gurvinder Manu Bura	Structural and Optical Properties of Ge Thin Film Grown on Glass by RF	Gurvinder, Divya Gupta, Manu	¥15/
	India Deparment of Physics, Panjab University, Chandigarh 160014, India				
	125001, India Department of Physics, Central University of Haryana, Jant-Pali, Mahendergarh 123029,			Sunita Srivastava	
Physics	Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar	Priya Rani	A DFT study of surface passivation of Graphene Quantum Dots	Priya Rani; Ranieet Dalal.	PMT4



	of Agriculture and Technology, Pantnagar- 263145, Uttarakhand, India	Snikna Bnatt	Rotational analogous of Quaternionic Dirac equation in electromagnetic field	Shikha Bhatt and B.C. Chanyal	РН16
Physics	Deparment of Physics, Kurukshetra University, Kurukshetra, 136119, India	Gurvinder Manu Bura	Structural and Optical Properties of Ge Thin Film Grown on Glass by RF Sputtering	Gurvinder, Divya Gupta, Manu Bura, Nisha Malik, Arun Kumar and Sanjeev Aggarwal	SIRA
Physics	Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar 125001, India Department of Physics, Central University of Haryana, Jant-Pali, Mahendergarh 123029, India Department of Physics, Panjab University, Chandigarh 160014, India	Priya Rani	A DET study of surface passivation of Graphene Quantum Dots	Priya Rani', Ranjeet Dalal, Sunita Srivastava'	

Taper-ID-2 CH26 to CH58



	CH30 N	СН29 Д	CH28 K	CH27 M	CH26 Ga	S. No. Na
	Minakshi	Deepak Kumar Aneja	Kiran Singh, Manish Kumar	Mandeep Singh and Nitin Kumar Verma	Garima Sumran and Suresh Kumar	Name of Authors
A Review of Pyrolysis as a	A Review of lockdown imposed by central air pollution control board	On Water Synthesis of Heterocyclic Compounds Using Organoiodine Reagents	Synthesis, characterization, magnetic, thermal and biological properties of the Schiff base, 4-(5-Bromothiophene-2-carboxylideneamino)-5-mercapto-3-methyl-1,2,4-triazole and its Co(II), Ni(II), Cu(II), Zn(II) metal complexes	Spectroscopic Techniques: Future of Research	Design, synthesis and biological evaluation of novel 4-aminopyrazolo[3,4-b]pyridine derivatives as potential antimicrobial agents	Title of Abstract
Alpna Gupta	Minakshi	Deepak Kumar Aneja	Manish Kumar	Mandeep Singh, Nitin Kumar Verma	Garima Sumran	Name of Presenter
Department of Chemistry, F.C. College for Women. Hisar	Govt. P.G.Nehru College Jhajjar	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani-127021. Haryana	Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana Department of Chemistry, Vaish College, Bhiwani-127021, Haryana	Assistant Professor, Rajiv Gandhi Govt. College Saha (Ambala)	Department of Chemistry, D. A. V. College (Lahore). Ambala City 134003, Haryana, India Department of Chemistry, S.U.S. Govt. College, Matak Majri, Indri-132041, Haryana, India	Name of Institute
Chemistry	Chemistry	Chemistry	Chemistry	Chemistry	Chemistry	Discipline/Subject



S. No.	Name of Authors	Title of Abstract	Name of	Name of Table	
	Diaba Cani		Presenter	Maille of Institute	Discipline/Subject
СН32	Mayank Kinger, Deepak Kumar Aneja	Aqueous Mediated Reactions Involving Hypervalent Iodine Reagents	Rinku Soni	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani, Haryana, 127021	Chemistry
СН33	Priyanka and Gurjaspreet Singh	Biphenyl conjoined tetrazole appended organosilatrane as a dual chemosensor for Fe(III) and Cu(II) ions	Priyanka	Department of Chemistry, Panjab University, Chandigarh-160014, India	Chemistry
СН34	Amisha and Sanjiv Arora	Different Types of Thermal Analysis and their Widespread Applications	Amisha	Department of Chemistry, Kurukshetra University (136119), Haryana, India	Chemistry
СН35	Surila	A Review of Air Quality Index during post vaccination period	Surila	Govt P.G Nehru College Jhajjar	Chemistry
СН36	Savita Kumari, Sunil Kumar, and Praveen Kumar Gupta	Aspects of immobilized catalyst on polymer support	Savita Kumari	Department of Chemistry, Maharishi Markandeshwar (Deemed to be University). Mullana, Ambala-133207	Chemistry
СН37	Shiwani Choudhary. Hardeep Anand. Prakash Chand. Kajal Samdhyan	The Electrode Materials for high performance Supercapacitor Applications: A Review	Shiwani Choudhary	Department of Chemistry, Kurukshetra University, Kurukshetra 136119, India Department of Physics, National Institute of Technology, Kurukshetra 136119, India	Chemistry
СН38	Monika Sihag. Mayank Kinger. Deepak Kumar Aneja	Advances in Synthesis and Applications of Hypervalent Iodine Chemistry	Monika Sihag	Department of Chemistry. Chaudhary Bansi Lal University, Bhiwani 127021, Haryana	Chemistry
СН39	Vanita, Usha Gupta	Role of Cyclodextrin Polymers in the extraction of Organic Pollutants	Vanita	Department of Chemistry. Punjabi Univesity College. Chunni Kalan	Chemistry



CH48	СН47	СН46	СН45	СН44	СН43	CH42	CH41	CH40	S. No.
Vyoma Agarwal	Sruthi Rajan	Simran Singh. Ila Joshi	Pawan Kumar	Vikram Singh Ritu	Anjali Gupta	Anup Dhiman	Vandana Yadav. Jyoti Sharma	Sandeep Malik, Deepak Kumar Aneja	Name of Authors
Development of nutrient dense ready	Biochar - eco-friendly adsorbent For the removal of colorants & pesticide	Effect of processing in enhancing Vitamin D2 content of white button mushrooms	Morphological Variations of Human Ear: An Aid to Personal Identification	English Language and Science and Technology: Some Ideas	Analysing Renewable and Non- Renewable Energy Sources for Environmental Quality in India	Food Energy and Nutrition for Improved Sports Performance	A Renewable Fuel – Biodiesel	Synthesis and Biological Importance of 1,2,4-Triazole Derivatives	Title of Abstract
Vyoma Agarwal	Sruthi Rajan	Simran Singh	Pawan Kumar	Vikram Singh Ritu	Anjali Gupta	Anup Dhiman	Vandana Yadav	Sandeep Malik	Name of Presenter
IIS (deemed to be University). Jaipur. India	College of Engineering, Kottayam, Kerala	IIS (deemed to be University), Jaipur, India	Assistant Professor, Department of Zoology, I.B.(PG) College. Panipat	Kurukshetra University. Kurukshetra Assistant Professor, Department of English, Dayanand Mahila Mahavidyala. Kurukshetra	(PG) College, Panipat (132103), Haryana, India  Assistant Professor, Department of English.	Lovely Professional University, Jalandher	Department of Chemistry. Maharishi Markandeshwar (Deemed to be University), Mullana-133207 (Ambala). Haryana, India	Department of Chemistry. Chaudhary Bansi Lal University, Bhiwani. Haryana 127021	Name of Institute
Home Science	Food Technology	Home Science	Zoology	English	Environment Studies	Physical Education	Chemistry	Chemistry	Discipline/Subject



S. No.	Name of Authors	Title of Abstract	Name of Presenter	Name of Institute	Discipline/Subject
СН40	Sandeep Malik, Deepak Kumar	Synthesis and Biological Importance of 1,2,4-Triazole Derivatives	-	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani, Haryana 127021	Chemistry
CH41	Vandana Yadav, Jyoti Sharma	A Renewable Fuel – Biodiesel	Vandana Yadav	Department of Chemistry, Maharishi Markandeshwar (Deemed to be University), Mullana-133207 (Ambala), Haryana, India	Chemistry
CH42	Anup Dhiman	Food Energy and Nutrition for	Anup Dhiman	Lovely Professional University, Jalandher	Health and Physical Education
СН43	Anjali Gupta	Analysing Renewable and Non- Renewable Energy Sources for Fnyironmental Quality in India	Anjali Gupta	Department of Environment Studies, I.B. (PG) College, Panipat (132103), Haryana, India	Environment Studies
СН44	Vikram Singh Ritu	English Language and Science and Technology: Some Ideas	Vikram Singh Ritu	Assistant Professor, Department of English, Kurukshetra University, Kurukshetra Assistant Professor, Department of English, Dayanand Mahila Mahavidyala.  Kurukshetra	English
CH45	Pawan Kumar	Morphological Variations of Human Ear: An Aid to Personal Identification	Pawan Kumar	Assistant Professor, Department of Zoology, I.B.(PG) College, Panipat	Zoology
СН46	Simran Singh, Ila Joshi	Effect of processing in enhancing Vitamin D2 content of white button mushrooms	Simran Singh	IIS (deemed to be University), Jaipur, India	Home Science
СН47	Sruthi Rajan	o-friendly adsorbent For of colorants & pesticide	Sruthi Rajan	Department of Food Technology. Saintgits College of Engineering, Kottayam, Kerala	Food Technology
CH48	Vyoma Agarwal and Ila Joshi		Vyoma Agarwal	IIS (deemed to be University), Jaipur, India	Home Science



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Varcha Nioam	Neha Rani, Deepak Kumar Aneja. Mayank Kinger	Sudeep Dhillon, Mayank Kinger	Seema Gupta	Amit Sharma.S.Kumar and S. K. Raghuvanshi		Narendra R Kamble	Name of Authors	
Phytochemicals and pharmacological properties of	Various Transformations involving Combined Approach of Hypervalent Iodine Reagents and Transition Metals	Synthesis And Biological Importance of Radiolabelled 1,3-Diaryl-2-Propen-1-Ones	and cytokinin on wheat under saline conditions	Effect of Dietary Probiotics (lactobacillus acidophilus) on the Growth Performance of Labeo Rohita	in ethanol at room temperature	Ni(ClO 4) 2.6H2O Catalyzed Synthesis of benzylpyrazolylcoumarin scaffolds via one pot multicomponent reaction	Title of Abstract	
Varsha Nigam	Neha Rani	Sudeep Dhillon	Seema Gupta	AmitSharma		Narendra R Kamble	Presenter	Name of
College, Yamuna Nagar- 135001, Haryana, India	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani, Haryana	F.C. College for women, man	University.Bareilly. UP, India University.Bareilly. UP, India S.K Raghuvanshi. Department of Zoology, Bareilly College. Bareilly. Uttar Pradesh, India	P. G. Department of Zoology, Bareilly College MJP Rohllkhand	PDEA's Waghire College, Saswad. Tq. Purandar Dist. Pune (Maharashtra) India- 412 301	Maile of the second	Name of Institute
Botany	Chemistry	Chemistry	Botany	Zoology		Chemistry		Discipline/Subject



	College, Palwal		Hydrogen: Nano Chocolates	Sapra. Anju	CH58
	Goswami Ganesh Dutt Sanatan Dharam	Vanita Kumari Sapra	New Simple Reservoirs to store	Vanita Kumari	
	Research, Sharda University, Greater Noida 201310, Uttar Pradesh, India			Chakraborty	
Chemistry	Department of Chemistry and Biochemistry, School of Basic Sciences and	Yadav		and Tanmoy	СН57
	Rajasthan, India DIT University, Dehradun 248009, India	Poonam	A Quest for the Universal Atomic	Babita Malik. Vandana Suhag	
	Department of Chemistry, Manipal University Jaipur, Jaipur 300307.			Poonam Yadav, Hiteshi Tandon.	
	Department of Chemistry, Kurukshetra University, Kurukshetra-136119	Scella Kalii	Poly(Vinyl Alcohol) based composite thin films and their biodegradability	Arora	CH56
Chemistry	Department of Chemistry, Dr.B.R.A. Govt.(PG) College, Jagdishpura, Kaithal	Ceema Rani	Recent advances in Water Hyacinth Fiber, Carboxymethyl Cellulose,	Seema Rani. Neera	
-	Nutrition dept., Government Home Science College, Chandigarh		pancake(puda)	Kitu Pradnan	
Home Science	Lal Sharma Govt. College, Karnal Associate Professor and Head, Foods and	Preeti Sharma	value added, millets based nutritionally rich ragi based	Preeti Sharma	CH55
	Lecturer, Home Science dept. Pt. Chiranji		Development and standardization of		
Discipinici subject	Name of Institute	Presenter	Title of Abstract	Name of Authors	S. No.



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	SI,	CS09	CS08	CS07	806	CS05	CS04	CS03	C802	eson	S. No.
Neetu Manocha	Aman Deep	Gaurav	Sarabjeet	Shelja and Pawan Kumar	Ritu Bhardwaj, Nitika Goel	Chirag Chanana	Monika Monika	Amandeep Makkar. Mukesh Kumar and Sunil Taneja	Ritika	Ashwani Gupta & Vinay Bharti	Name of Authors
Role of ICT	ICT use during COVID-19	Role of ICT During COVID	Role of ICT during covid-19 pandemic	LFC Parametric tuning with different Meta Heuristics Optimization Algorithms	Role of ICT during COVID -19	Role of artificial intelligence during covid-19 pandemic	Impacts and Adaptation of ICT during Covid-19 pandemic	Performance Assessment of DSR & AODV using Throughput, Packet Loss and Normalized Routing Load	Impact of ICT Technologies in Education during Covid-19	Effectiveness of Online Education during Covid-19 Pandemic	Title of Abstract
Neetu Manocha	Aman Deep	Gaurav	Sarabjeet	Shelja	Ritu Bhardwaj, Nitika Goel	Chirag Chanana	Monika	Amandeep Makkar, Sunil Tareja	Ritika	Ashwani Gupta, Vinay Bharti	Name of Presenter
Assistant Professor at I.B. PG College. Panipat (Haryana) - 132103	UIET, Kurukshetra University. Kurukshetra	Shri A.B.T.N. School Thol	Sai College of Education. Sardulapur	Department of Computer Science and Application, NIILM University, Kaithal, India	I.B. (PG) College ,Panipat	University Institute of Engineering and Technology.Panjab University. Chandigarh	Assistant Professor, P. I. G. G. C. W., JIND Assistant Professor, Govt. college, Rewari	Research Scholar, Department of Computer Science & Applications, NIILM University, Kaithal, India Professor, Department of Computer Science & Applications, NIILM University, Kaithal, India <sup>3</sup> Associate Professor, Department of Computer Science, Govt. College, Aharwala (Bilaspur), India	Assistant Professor, Adarsh Mahila Mahavidyalaya, Bhiwani	Department of Computer Science, I.B. (PG) College, Panipat (132103), Haryana, India	Name of Institute
Computer Science	Electrical Engg	Maths	Education	Computer Science	Computer Science	Computer Science	Computer Science	Computer Science	Computer Science	Computer Science	Discipline/ Subject
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Di. Data i anno	Culture Parminder Kaur	Work from Home: the new Culture		
Department of Computer Science Department of Computer Science Department of Computer Science				
Haryana		Platform during COVID-19	Poonam Kaiii	CS13
Dr. B.R. Ambedkar Govt. College, Kaithal,	ing Poonam Rani	Role of ICT in Online Learning	D Doni	
Department of Computer Science			Valle of Authors	5. 140.
	Name of Presenter	Title of Abstract	C No Name of Authors	n Z