

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



A

Report

on

One Week National Workshop

Materials Fabrication & Characterization Techniques

 $24^{th}-28^{th} January \ 2022$

Organized by: Department of Physics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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1. Objective and Outcome of the event

Objectives

The aim of the one-week national workshop is to provide an opportunity to the students, young researchers, engineers, and academician to sharpen their research skills and to gain knowledge related to major analytical techniques for materials characterization like SEM, TEM, XRD, XPS, etc. with emphasis on practical applications in Engineering, Physical and Life Sciences. Also, this workshop will provide in-depth knowledge of advancement in materials, their fundamental characteristics, synthesis, and applications in different domains of Science and Technology.

<u>Outcomes</u>

At the end of this workshop, the participants will be able to understand the various materials characterizations techniques and subsequent analysis of test results, which are the primary requirements for any researchers working in the research of materials and manufacturing. They will also be able to apply appropriate characterization techniques for microstructure examination at different magnification level and use them to understand the microstructure of various materials. This will help the participants to determine crystal structure of specimen and estimate its crystallite size. Ultimately, the participants will have achieve a better insight into the recent trends of material fabrication and structural, optical and microscopic characterization techniques for the materials from bulk to nano range.

2. Approval Letter of the Event



Swami Keshvanand Institute of Technology, Management & Gramothan

Department of Physics

Date: 31/08/2021

Note

Following Proposals for Online Workshop/Seminar are being submitted for your kind approval.

S. No.	Proposed Title	Event Type	Tentative dates	Duration	Name of Coordinator(s)	Budget
1.	Learning Physics through Simulation and Experiments	Student Workshop	22-26 Nov., 2021	I week	 Mr. Pawan Kumar Jain Mr. Rajiv Kumar Mr. Ajay Kumar Sharma Dr. Rishi Vyas 	30000
2.	Materials Fabrication and Characterization Techniques	Workshop	20-24 Dec., 2021	1 week	 Dr. Manasvi Dixit Mr. Ajay Kumar Sharma Dr. Komal Sharma Mr. Rajiv Kumar 	30000
3.	National conference on Recent Trends in Emerging Technologies		28-29 January, 2022	2 days	 Dr. Komal Sharma Dr. Rishi Vyas Dr. Manasvi Dixit Mr. Pawan Kumar Jain 	20000

3. Brochure of the Event



4. Schedule of the Event



5. List of Invited Guests and Speakers

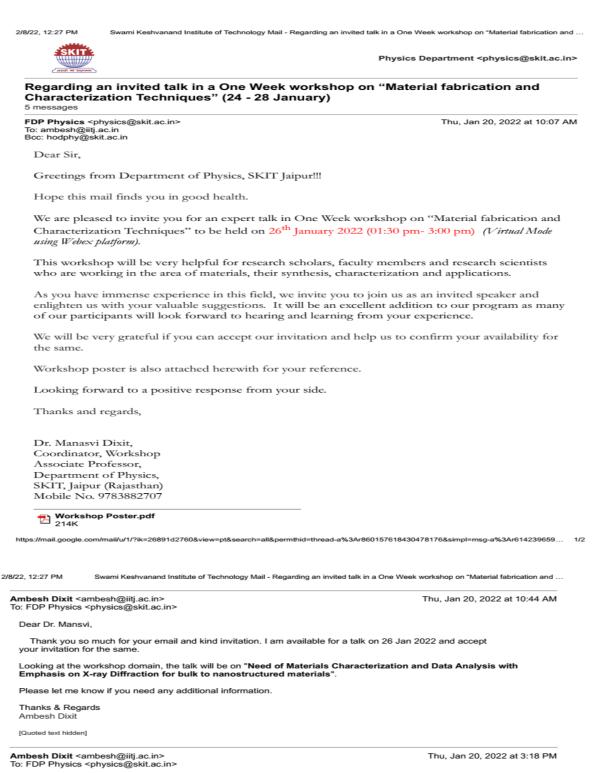
S.No	Guest/Speakers	Name and Affiliation
1.	Chief guest of Inauguration &	Dr. Govind Gupta, Senior Principal & Professor (AcSIR), National Physical Laboratory, New Delhi
2.	Invited Speaker 1 Invited Speaker 2	Dr. Balram Tripathi, Associate Professor, S.S. Jain Subodh PG College, Jaipur
3.	Invited Speaker 3	Dr. Ambesh Dixit, Associate Professor, Department of Physics, IIT, Jodhpur
4.	Invited Speaker 4	Dr. Pawan Kumar Kulriya, Associate Professor, School of Physical Sciences, JNU, New Delhi
5.	Invited Speaker 5	Dr. Vishal Mathur, Assistant Professor, Physics, American International University, Kuwait

6. Consent of the Speakers



: https://sites.google.com/view/govindgupta/home





Need of Materials Characterization and Data Analysis With Emphasis on Optical Characterization for bulk to

Swami Keshvanand Institute of Technology Management & Gramothan

Ramnagaria, Jagatpura, Jaipur-302 017, Rajasthan, India

Please consider the following title:

nanostructured materials Thanks & Regards Ambesh Dixit [Quoted text hidden]

2/8/22, 12:33 PM

Swami Keshvanand Institute of Technology Mail - Regarding an invited talk in a One Week workshop on "Material fabrication and ...



Physics Department <physics@skit.ac.in>

Regarding an invited talk in a One Week workshop on "Material fabrication and Characterization Techniques" (24 - 28 January)

3 messages

FDP Physics <physics@skit.ac.in> To: pawaniuac@gmail.com Sat, Jan 15, 2022 at 3:53 PM

Dear Sir,

Greetings from Department of Physics, SKIT Jaipur!!!

Hope this mail finds you in good health.

We are pleased to invite you for an expert talk in One Week workshop on "Material fabrication and Characterization Techniques" to be held on 27th January 2022 (01:30 pm- 3:00 pm) (*Virtual Mode using Webex platform*).

This workshop will be very helpful for research scholars, faculty members and research scientists who are working in the area of materials, their synthesis, characterization and applications.

As you have immense experience in this field, we invite you to join us as an invited speaker and enlighten us with your valuable suggestions. It will be an excellent addition to our program as many of our participants will look forward to hearing and learning from your experience.

We will be very grateful if you can accept our invitation and help us to confirm your availability for the same.

Workshop poster is also attached herewith for your reference.

Looking forward to a positive response from your side.

Thanks and regards,

Dr. Manasvi Dixit, Coordinator, Workshop Associate Professor, Department of Physics, SKIT, Jaipur (Rajasthan) Mobile No. 9783882707

FDP Physics <physics@skit.ac.in> To: pawaniuac@gmail.com Sat, Jan 15, 2022 at 3:56 PM

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2/8/22, 12:33 PM

Swami Keshvanand Institute of Technology Mail - Regarding an invited talk in a One Week workshop on "Material fabrication and ...



Physics Department <physics@skit.ac.in>

Regarding an invited talk in a One Week workshop on "Material fabrication and Characterization Techniques" (24 - 28 January, 2022) 2 messages

FDP Physics <physics@skit.ac.in> To: wishalmathur@gmail.com

Fri, Jan 28, 2022 at 8:31 AM

Dear Ma'am,

Greetings from Department of Physics, SKIT Jaipur!!!

Hope this mail finds you in good health.

We are pleased to invite you for an expert talk in One Week workshop on "Material fabrication and Characterization Techniques" to be held on 28th January 2022 (01:30 pm- 3:00 pm) (Virtual Mode using Webex platform).

This workshop will be very helpful for research scholars, faculty members and research scientists who are working in the area of materials, their synthesis, characterization and applications.

As you have immense experience in this field, we invite you to join us as an invited speaker and enlighten us with your valuable suggestions. It will be an excellent addition to our program as many of our participants will look forward to hearing and learning from your experience.

We will be very grateful if you can accept our invitation and help us to confirm your availability for the same.

Workshop poster is also attached herewith for your reference.

Looking forward to a positive response from your side.

Thanks and regards,

Dr. Manasvi Dixit, Coordinator, Workshop Associate Professor, Department of Physics, SKIT, Jaipur (Rajasthan) Mobile No. 9783882707

214K Workshop Poster.pdf

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7. List of Participants (Outside SKIT)

S.No.	Participant Name	Name of Institute	Email ID (Registered)		
1.	Mr.Aditya Raj Meena	Jecrc University	adiya.19bscn016@jecrcu.edu.in		
2. Mr.Anupam Agrawal		Bhilai Institute of Technology, Durg	anupamagrawal123@gmail.com		
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13.	Dr.Rashmi Saxena	St wilfred College for girls, Jaipur	rashmi_saxena29@yahoo.co.in		
14.	Dr.Ratyakshi	Bhaskaracharya College of Applied Sciences, University of Delhi	ratyakshi.mb@bcas.du.ac.in		
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19.	Mr.Jagmohan lal sharma	RRBMU ALWAR	jagmohanrc@gmail.com		

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20.	Mr.Keshav Ranga	Jaipur engeenering college and research Center	ranga.jsm@gmail.com
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23.	Dr.Mahesh Chander Mishra	Raj Rishi College,Alwar	mahmishra111@gmail.com
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33.	Dr.Pallav Gupta	Amity University Uttar Pradesh, Noida.	pallav_gupta19@yahoo.co.in
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62.	Dr.Vishal Saxena	Jaipur engineering college and research center	vishalsaxena.math@jecrc.ac.in	

List of Participants (SKIT-Faculty)

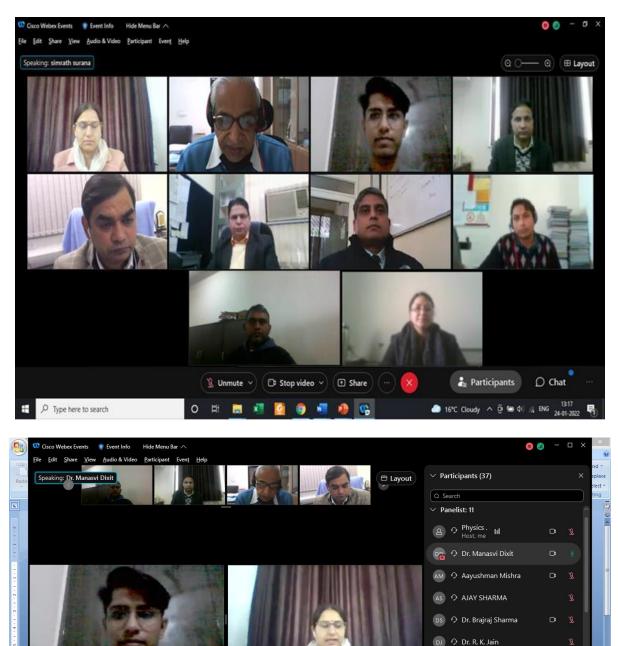
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2.	Ms. Rammurti Meena	SKIT M&G, Jaipur	EE	rammurti.meena@skit.ac .in
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13.	Mr. Amit Kumar Bansal	SKIT M&G, Jaipur	ME	amit.bansal@skit.ac.in
14.	Mr. Ankit Kumar Agarwal	SKIT M&G, Jaipur	ME	ankit@skit.ac.in
15.	Mr. Ankur Mishra	SKIT M&G, Jaipur	Civil	ankur.mishra@skit.ac.in
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19.	Mr. Chandra	SKIT M&G, Jaipur	ME	chandra.mohan@skit.ac.
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20.	Mr. Chandra	SKIT M&G, Jaipur	Mathematics	
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23.	Ms. Kavita Jain	SKIT M&G, Jaipur	EE	~ ~ ~
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	Saxena	-		in
27.		SKIT M&G, Jaipur	IT	
	Mr. Naveen jain			naveen@skit.ac.in
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	Dr. Nidhi Jain			m
29.	Mr. Pawan Kumar	SKIT M&G, Jaipur	Physics	
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	Choudhary			c.in
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	Kumawat	Υ <u>ι</u>		c.in
32.		SKIT M&G, Jaipur	ME	
	Mr. Pramod Jain	· 1		pramod.jain@skit.ac.in

S.N o.	Participant Name	Name of Institute	Roll No.	Department	Email ID (Registered)
1.	Prashant Kumar	SKIT M&G, Jaipur	19602066	Mechanical Engineering	prashant.kumar@an andice.ac.in
2.	Pretesh Kakhani	SKIT M&G, Jaipur	20ESKCE091	Civil Engineering	pretesh2002@gmail .com
3.	Priyadarshini Singh Shekhawat	SKIT M&G, Jaipur	20ESKME068	Mechanical Engineering	priyadarshinishekha wat1@gmail.com
4.	Sachin Meena	SKIT M&G, Jaipur	20ESKCE105	Civil Engineering	sachinjorwal4918@ gmail.com
5.	Varun Kumar Meena	SKIT M&G, Jaipur	20ESKCE123	Civil Engineering	varunmeena701@g mail.com
6.	Aayushman Mishra	SKIT M&G, Jaipur	20ESKME001	Mechanical Engineering	mishraayushman78 6@gmail.com

List of Participants (SKIT-Student)



8. Screenshots of the Event

Swami Keshvanand Institute of Technology Management & Gramothan Ramnagaria, Jagatpura, Jaipur-302 017, Rajasthan, India

🗕 Unmute 🗸 🗇 Stop video 🗸 💽 Share

Audio options

Aayushman Mishra

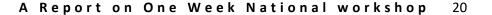
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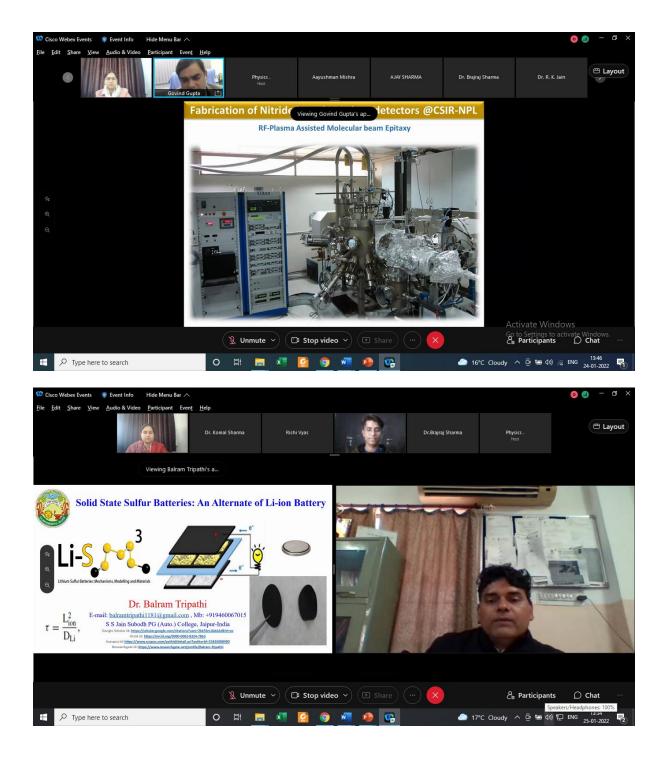
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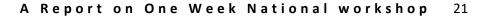
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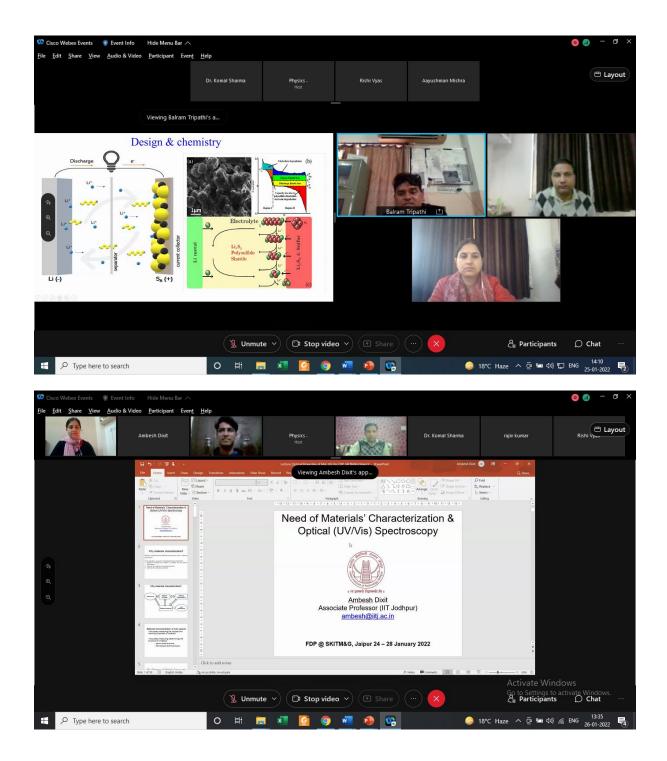
Le Participants 💭 Chat

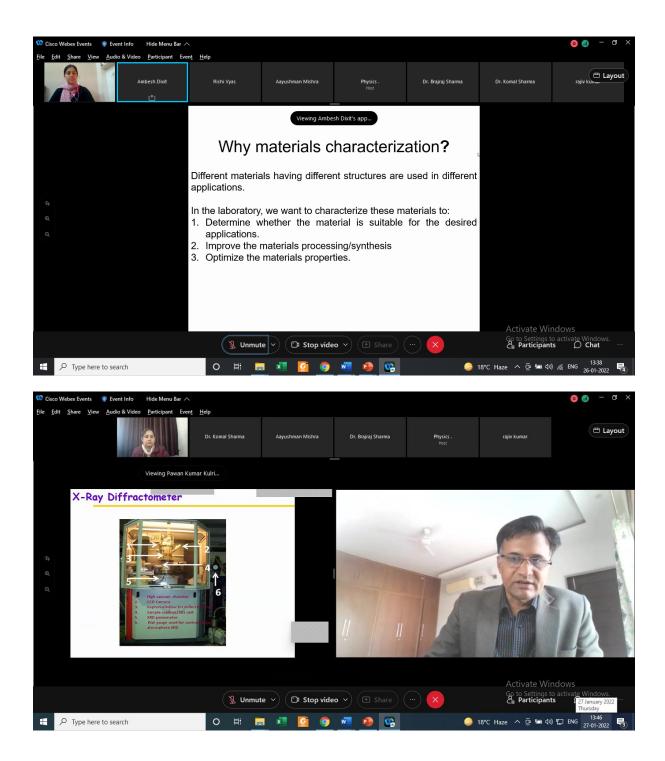
> Q & A

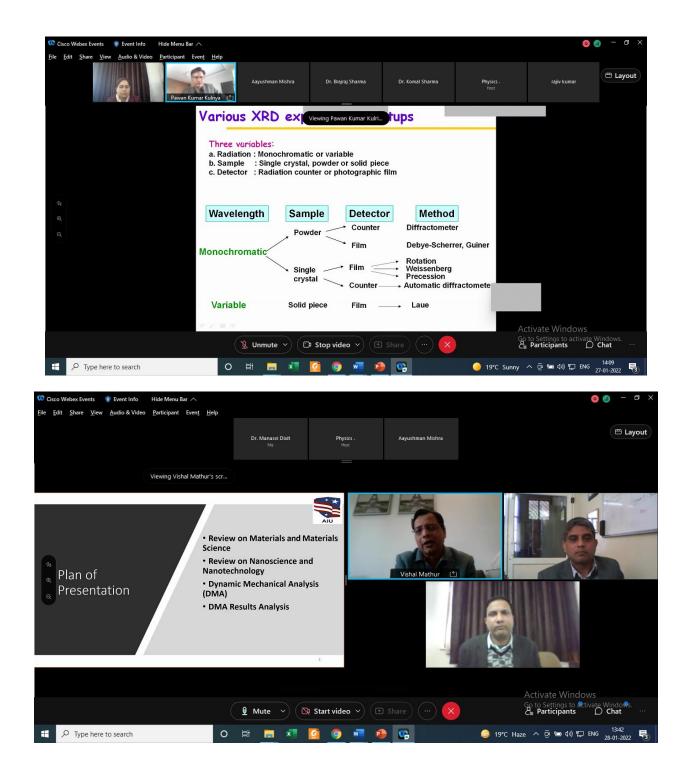














9. Sample Copy of Certificate

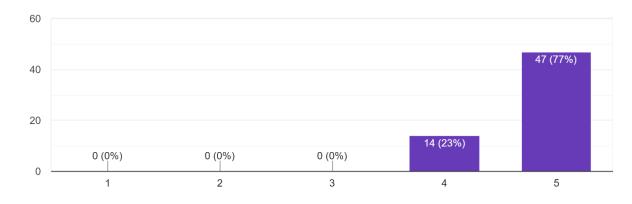
Participant Certificate



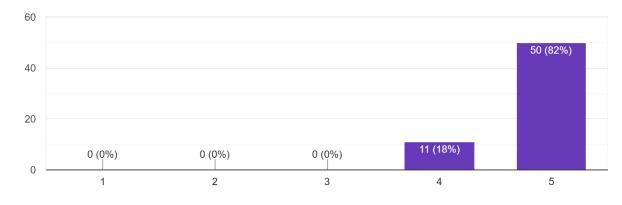
Ramnagaria, Jagatpura, Jaipur-302 017, Rajasthan, India

10. Feedback Report

The content delivered by Session Expert 61 responses

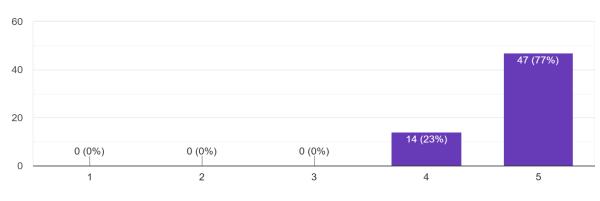


The Knowledge shared by Session Expert 61 responses

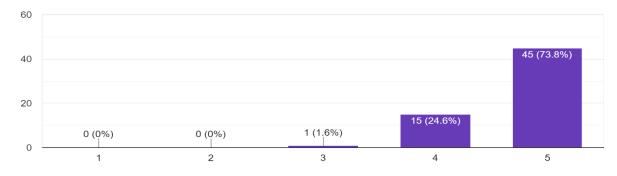


Relevancy of the topic 61 responses



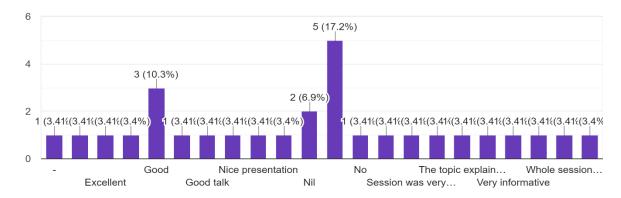


Your Experience about the session 61 responses



Any other Suggestions

29 responses



11. Media Coverage

एस.के.आई.टी. में पांच दिवसीय नेशनल वर्कशॉप का शुभारम्भ

P3 Police Public Politics जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में सोमवार दिनांक 24 जनवरी 2022 को भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर,

÷मटेरियल फेब्रिकेशन एंड कै र` कट राइ जे शान टेक्निक्स÷ विषय पर पांच दिवसीय नेशनल वर्कशॉप का शुभारम्भ हुआ द्य मुख्य वक्ता के रूप में डॉ. गोविन्द गुप्ता, सीनियर प्रिंसिपल साइंटिस्ट एंड प्रोफेसर (ष्स्ट्रुक्त हक्क नई दिल्ली) ने नाइट्राइड हेट्रो संरचना की फेब्रिकेशन एवं फोटो डिटेक्शन में उपयोगिता के बारे में

बताया द्य इस अवसर पर कॉलेज के डायरेक्टर अकादिमिक प्रोफेसर (डॉ.) एस. एल. सुराना ने मुख्य वक्ता एवं अन्य प्रतिभागियों का स्वागत किया तथा एस. के. आई. टी. की उपलब्धियों के बारे में बताया द्य कार्यक्रम के कोऑर्डिनेटर (डॉ.) मनस्वी दीक्षित ने इस प्रोग्राम में आने वाले वक्ताओ तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया । प्रोफेसर (डॉ.) ब्रजराज शर्मा, विभागाध्यक्ष, भौतिकी विभाग ने धन्यवाद ज्ञापित किया । इस कार्यक्रम का संचालन



एसोसिएट प्रोफ़ेसर राजीव कुमार, पवन जैन तथा आयुष्मान शर्मा ने किया द्य इस अवसर पर प्रोफेसर (डॉ.) आर. के. जैन, प्रोफेसर (डॉ.) रोहित मुखर्जी, तथा प्रोफेसर (डॉ.) धीरज जोशी भी उपस्थित थे।



CITY FIRST

five-day national workshop on the topic 'Materials Fabrication & Characterization Techniques' was started at Swami **Kesavanand** Institute of **Technology Management** and Gramothan, Jagatpura, by the Department of Physics on Monday. On this occasion, the keynote speaker Dr Govind Gupta, Senior Principal Scientist & Professor (Ac-SIR, NPL, and New Delhi) explained the fabrication of Nitride Hetrostuctures for Efficient Photodetection. The Director Academic of the college, Professor (Dr) S L Surana welcomed the keynote speaker and all the participants. Dr Manasvi Dixit, the coordinator of the program, presented a brief

description of the speakers and various sessions to be held in this program. Professor (Dr) Brajraj Sharma, (Head of the Department, Physics) expressed a vote of thanks. The program was conducted by Associate Professor Rajiv Kumar, Pawan Jain and Aayushman Sharma. chyfrst@firstindia.co.in

एस. के. आई. टी. में पांच दिवसीय वर्कशॉप का समापन

P3 Police Public Politics जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में भौतिकी विभाग के द्वारा ऑन्लाइन प्रदेश्कर्म पर, +मेटेरियल फेब्रिकेशन एंड कैरेक्टराइजेशन टेक्निक्स+ विषय पर पांच दिवसीय नेशनल वर्कशॉप का शुक्रवार दिनांक 28 जनवरी 2022 को समापन हुआ द्य समापन समारोह में मुख्य अतिथि एवम आमंत्रित बका के रूप में डॉ. विशाल माथुर, भौतिकी विभाग, अमेरिकन इंटरोशनल यूनिवर्सिटी, कुवैत ने धर्मो-

मैकेनिकल कैरेक्टराइजेशन ऑफ पॉलीमर नैनोकम्पोजित्स विषय पर अपना व्याख्यान दिया और वर्कशॉप के सफल आयोजन के लिए आयोजकों को बधाई दी द्य इस वर्कशॉप के विभिन्न सत्रों में मुख्य वक्ता के रूप में प्रोफेसर (डॉ.) गोविंद गुप्ता (एनपीएल, न्यू दिक्षी), डॉ. बलताम त्रिपाठी (सुबोध पी. जी. कॉलिज, जयपुर), डॉ. अम्बेश दीर्धित (आई. आई. टी. जोधपुर) एवम डॉ. पवन कुमार कुएतरिया (जे.एन.यू, न्यू दिक्षी) ने भी अपने व्याख्यान से प्रतिभागियों को लाभानिवत किया द्य कार्यक्रम के

को ऑडिंनेटर डॉ. कोमल शर्मा ने इस प्रोग्राम का संक्षित विवरण प्रस्तुत किया द्य प्रोफेसर (डॉ.) बजराज शर्मा, विभागाच्यह, भौतिकी विभाग ने वकशांग का महत्त्व बताते हुए इसके सफल आयोजन के लिए समस्त आमंत्रित बक्ताओं तथा आयोजको को धन्यवाद दिया द्य इस कार्यक्रम का संचालन डॉ. मनस्वी देखित राजीव कुमार, पवन कुमार जैन तथा आयुग्मान मिश्रा ने किया द्य इस वर्कशॉप में विभिन्न प्रैर्श्वाणिक संस्थानों के 150 से अधिक प्रतिभागियों ने पींकरण



12. Technical Report

The Department of Physics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur organized a One Week National Workshop on "Materials Fabrication & Characterization Techniques" during 24th -28th January 2022. This workshop is conducted on Webex online platform.

This one week national workshop comprised five thoughtful informative and interactive seesions delivered by the experts from the various reputed institutes. About 150 research scholars, faculty members and students from various universities and institutes of all over the country participated in this workshop.

Dr. Govind Gupta, Senior Principal & Professor (AcSIR), National Physical Laboratory, New Delhi was the chief guest of the inaugural session of this workshop. The Workshop began with the welcome address by Prof. (Dr.) S.L.Surana, Director Academics, SKIT, Jaipur. He addressed the audience by highlighting the need of research in material science.

Chief guest Dr. Govind Gupta addressed participants about importance of material fabrication and need of characterization techniques. He has also shared the research facility and characterization techniques available in NPL, New Delhi and invited for collaborative research work.

In the Inauguration ceremony Prof. R.K.Jain, Dean SKIT, Dr. Dheeraj Joshi, HOD, Mechanical and Dr. Brajraj Sharma, HOD Physics were also present.

Dr. Manasvi Dixit, Coordinator of workshop discussed the objective of the workshop and Prof. Brajraj Sharma, HOD, Physics extended vote of thanks to the keynote speaker and all participants in Inaugural Ceremony.

In the first day interactive session Dr. Govind Gupta delivered an expert talk on Fabrication of Nitride Heterostructures for Efficient Photodetection. In his talk he explained the fabrication of Nitride based UV detector andighlighted the importance of nitride semiconductor for flexible optoelectronics applications. The session was very informative.

Commencement of second day was enthusiastic and informative due to an expert lecture of Dr. Balram Tripathi, Associate Professor, S.S. Jain Subodh College, Jaipur. He shed light on Solid state sulfur batteries which is an alternate of Li-ion battery. He also talked about the drawbacks of excessive use of Li-ion batteries and explained the recycling process to minimize the negative impact on environment.

Day 3 started again with the knowledge enriching session of Dr. Ambesh Dixit, Associate Professor, Department of Physics, IIT, Jodhpur. He enlightened need of Materials

Characterization and Optical spectroscopy characterization technique. He talked about the optical and microscopic structural Characterization from bulk to nanostructured materials. The session was very interesting.

Day 4 began with interactive session of Dr. Pawan Kumar Kulriya, Associate Professor, School of Physical Sciences, JNU, New Delhi. He explained the X-ray Diffractometer: Technique for structural analysis of materials from bulk to nano size and also explained the material fabrication for XRD analysis.

The workshop is ended with the final session of Day 5 by Dr. Vishal Mathur, Assistant Professor, Physics, American International University, Kuwait. He shared his knowledge on Thermo-mechanical Characterization of Polymer Nanocomposites. He also explained the Dynamic Mechanical characterization techniques in detail which is used to measure the mechanical properties of thin polymer nanocomposite film.

All the sessions were very much informative. The discussed areas are of great benefit for the participants as they were enlightened with recent advancement in material fabrications and different characteristics techniques.

---Thank You-----