

FIST Supported P. G Department of Physics
National Institute of Technology Srinagar
Hazratbal-Srinagar

Data Format

1. Placement of Academic Staff at the Department for the period **01/04/2021 to 31/03/2022**

S.No	Designation	Name of Faculty Member
1.	Head of Department (for the period)	Prof. M. A. Shah
2.	Professors	Prof. M. Ikram Prof. Seemin Rubab Prof P A Ganaie
3.	Associate Professors	Nil
4.	Assistant Professors	Dr. Vijay Kumar Dr. M. Z. Ansari Dr. Harkirat Singh
5.	Trainee Teachers	0
6.	Contractual Faculty	0
7.	Any Other Faculty not mentioned above	0
8.	Technical Assistant Physics	Mr. Tasaduq Hussain Mir

2. Papers published and presented by the faculty for the period **01/04/2021 to 31/03/2022**

S.No	Name of the Faculty	Name(s) of Co-Authors (if Any)	Title of the papers	Conference/Journal, where published	Date of Publishing
1.	Prof. Mohd. Ikram	Gowher Hameed Rather, Mehraud Din Rather, NazimaNazir, Afreen Ikram, Mohd. Ikram & Basharat Want	Particulate Multiferroic $Ba_{0.99}Tb_{0.02}Ti_{0.99}O_3 - CoFe_{1.8}Mn_{0.2}O_4$ Composites: Improved Dielectric, Ferroelectric and Magneto-dielectric Properties”	Journal of Alloys and Compounds, 887,161446 (2021)	02/08/2021
2.	Prof. Mohd. Ikram	Nazima Nazir	“Tuning of the Structural, Morphological, Dielectric and Magnetoresistance Properties of Gd_2NiMnO_6 Double Perovskite by Ca doping”,	Physica B, 632, 413734(2022)	2 February 2022
3.	Prof. Mohd. Ikram	Gulzar Ahmad lone	“Investigating the Structural and Dielectric Properties of $CoFe_{2-x}Ni_xO_4$ Spinel Ferrite”	Journal of Alloys and Compounds, 908, 164589(2022)	12 March 2202
6.	Seemin Rubab	Sylvia Devi Henam, Farooq Ahmad Dar, AshaqHussian Sofi ShaziaParveen, Abdul	Microwave synthesis of $AlO(OH)$ and $Mg(OH)_2$ nanoparticles and evaluation of their	Asian Journal of Green Chemistry, 5(2)	April 2021

		Hamid Wani, M A Shah	antifungal activity		
7.	Seemin Rubab	Rayees A Khan, Shabir A Akhoon, Vijayaraghavan G V, Thanigai Arul Kumaravelu & Chung-Li Dong	Al-doped LiMn_2O_4 nanostructures for environmentally benign supercapacitor applications	, Materials Technology	13 Feb 2022
8.	Dr.M.A Shah	S.A Mir	Thermodynamics of Graphene beyond the Linear Approximation	Communications in Theoretical Physics	14/05/2022
9.	Dr.M.A Shah	Nairah noor , et al	Ferulic acid loaded pickering emulsions stabilized by resistant starch nanoparticles using ultrasonication: Characterization, in vitro release and nutraceutical potential	Ultrasonics Sonochemistry 84, 105967	01/03/2022
10.	Dr.M.A Shah	Kaleem ahmad najar et. al	A dual-layer approach for enhancing the tribological and machining performance of carbide tools in dry turning of mild-steel alloy	International Journal of Machining and Machinability of Materials	06/05/2022
11.	Dr.M.A Shah	Anisa Gulzar et. al	In vitro and in vivo MRI imaging and photothermal therapeutic properties of Hematite ($\alpha\text{-Fe}_2\text{O}_3$) Nanorods	Journal of Materials Science: Materials in Medicine 33 (1), 1-13	12/01/2022
12.	Dr.M.A Shah	Shazia Parveen et. Al	Trichoderma Based Synthesis of Silver Oxide Nanoparticles, Their Characterization and Assessment of Antifungal Activity	International Journal of Nanobiotechnology 7 (2), 19-25	8/12/2021
13.	Dr.M.A Shah	M A Alam et. al	Effect of hydrostatic compression on physical properties of Li_2TmSi_3 (Tm= Ir, Pt, Rh, Os) with ground-state optical features	Journal of Physics and Chemistry of Solids 156, 110124	1/09/2021
14.	Dr.M.A Shah	Mateen Tantray et.al	Random Oriented ZnO Nanorods Fabricated through Anodization of Zinc in KHCO_3 Electrolyte	ECS Journal of Solid State Science and Technology 10 (8), 081003	5/8/2021
15.	Dr.M.A Shah	U Jasia et. al	Changes in the physical properties of $\text{Mg}_2\text{Ir}_3\text{Si}$ compared to $\text{Li}_2\text{Ir}_3\text{Si}_3$ due to the substitution of Li by Mg and the exchange	Solid State Communications 334, 114361	1/8/2021

			of positions between Ir and Si		
16.	Dr.M.A Shah	Anil Maini	Investigation on physical properties of nanosized copper oxide (CuO) doped with cobalt (Co): A material for electronic device application	International Journal of Ceramic Engineering & Science 3 (4), 192-199	27/05/2021
17.	Dr.M.A Shah	Anil Maini	Sol-Gel Fabricated CuO Thin Film: Characterization for Device Application	Sumy State University	25/10/2021
18.	Dr.M.A Shah	Alok Sagar Gautam et. Al	Temporary reduction in air pollution due to anthropogenic activity switch-off during COVID-19 lockdown in northern parts of India	Environment, Development and Sustainability 23 (6), 8774-8797	16/09/2021
19.	Dr.M.A Shah	Manteen tantray	Photo electrochemical stability response of ZnO nanoflowers fabricated through single step electrochemical anodiza	Chemical Papers 75 (4), 1739-1747	23/11/2021
20.	Dr. Prince A Ganai	Sudhaker Upadhyay, Nadeem-ul-islam	A modified thermodynamics of rotating and charged BTZ black hole .	Journal of Holography Applications in Physics.	01/08/2022
21.	Dr. Prince A Ganai	Abdul W. Khanday,SudhakerUpadhyay	Thermodynamics of galaxy clusters in modified Newtonian potential	Physica scripta journal.	29/11/2021
22.	Dr. Prince A Ganai	Yawar H Khan, SudhakerUpadhyay	Stability of remnants of Bardeen regular black holes in presence of thermal fluctuations	World scientific journal.	10/08/2021
23.	Dr. Prince A Ganai	Abdul W Khanday,SudhakerUpadhyay	Galactic clustering under power-law modified Newtonian potential	General relativity and gravitation.	10/06/2021
24.	Mohd Zubair Ansari	Rais Ahmad Dar	Study of Structural and Optical Properties of Ag doped ZnO Nanostructures,	Indian Materials Conclave (IndMac) and 32nd Annual General Meeting of MRSI, Indian Institute of Technology Madras,	20/12/2021-23/12/2021.
25.	Mohd Zubair Ansari	Rais Ahmad Dar	Effect of pH variations on Structural and morphological properties of ZnO Nanocrystals	International e-Conference on Nanomaterials & Nanoengineering APA NANOFORUM-2022,	24/02/2022 to 26/02/2022

				Asian Polymer Association and CSIR-National Physical Laboratory(CSIR-NPL)	
26.	Mohd Zubair Ansari	Towseef Ahmad Sheergojri	Antimony doped tin oxide and their effect on structural and optical properties	International conference in Nanotechnology for better living 2021	07/09/2021 To 11/09/2021
27.	Mohd Zubair Ansari	Towseef Ahmad Sheergojri	Effect of Sb doping on structural and optical properties of tin oxide	conference Material research society of India (MSRI)	4 Feb. 2022
28.	Harkirat Singh	Junaid Ul Ahsan	Temperature dependent magnetization in Co@Fe nanoparticles	Physica B: Condensed Matter	15/02/2022
29.	Harkirat Singh	Jagdish Kumar	Electron-phonon mediated superconductivity in 1T-MoS2 and effect of pressure on its transition temperature	Journal of Physics and Chemistry of Solids	September 2021
30.	Vijay Kumar	Santosh K. Tiwari, Raunak Pandey, Nannan Wang, Vijay Kumar, Olusegun J. Sunday, Michał Bystrzejewski, Yanqiu Zhu, Yogendra Kumar Mishra	Progress in Diamanes and Diamanoids Nanosystems for Emerging Technologies	Advanced Science 9 (2022) 2105770 (I.F. = 15.4)	17 February 2022
31.	Vijay Kumar	Sonal Choudhary, Kashma Sharma, Manpreet S. Bhatti, Vishal Sharma, Vijay Kumar	DOE based synthesis of Gellan gum-acrylic acid-based biodegradable hydrogels: Screening of significant process variable and in situ field studies	RSC Advances 12 (2022) 4780-4794. (I.F. = 3.361)	09 Feb 2022
32.	Vijay Kumar	Karanpreet Virk, Kashma Sharma, Shikha Kapil, Vinod Kumar, Vishal Sharma, Sadanand Pandey, Vijay Kumar	Synthesis of gum acacia-silver nanoparticles based hydrogel composites and their comparative anti-bacterial activity	Journal of Polymer Research 29 (2022) 118. (I.F. = 3.097)	11 March 2022
33.	Vijay Kumar	Irfan Ayoub, Vijay Kumar, Rishabh Sehgal, Vishal Sharma, Rakesh Sehgal, Reza Abolhassani, Hendrik C Swart, Yogendra Kumar Mishra	Advances in ZnO: Manipulation of Defects for Enhancing their Technological Potentials	Nanotechnology Reviews 11 (2022) 575-619. (I.F. = 7.848)	January 26, 2022
34.	Vijay Kumar	Raunak Pandey,	Updates in Phase Change	Materialia 21 (2022)	7

		PrabhavThapa, Vijay Kumar, Yanqiu Zhu, Nannan Wang, Michał, Bystrzejewski, Santosh K. Tiwari	Materials for Thermoelectric Devices: Status and Challenges	101357	February 2022
35.	Vijay Kumar	V. Sharma, S. Choudhary, P. Mankotia, A. Kumari, K. Sharma, Rakesh Sehgal, Vijay Kumar	Nanoparticles as Fingerprint Sensors	TrAC Trends in Analytical Chemistry 143 (2021) 116378. (I.F. = 12.296)	24 June 2021
36.	Vijay Kumar	Archana Gupta, Vishal Sharma, Kashma Sharma, Vijay Kumar, SonalChoudhary, Priyanka Mankotia, Brajesh Kumar, Harshita Mishra, AmitavaMoulick, Adam Ekielski and Pawan Kumar Mishra	A Review of Adsorbents for Heavy Metal Decontamination: Growing Approach to Wastewater Treatment	Materials 14 (2021) 4702. (I.F. = 3.623)	20 August 2021

3. Conferences, Courses, Trainings attended by the faculty members during the period 01/04/2021 to 31/03/2022

S.No	Name of the Faculty	Name of the program Attended	Institute/Place where attended	Dates
1.	Prof.Mohd. Ikram	National Level Faculty Development Programme on “Recent Trend in Material Physics.	Organized by Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu.	June 22- 28 2021.
2.	Prof. Mohd. Ikram	Faculty development program on emerging trends in science and technology.	Organized by Easwari Engineering College and Department of Physics, Chennai.	July 01- 06 2021
3.	Prof. Mohd. Ikram	School on Microscopic Characterization Techniques	Organized by Inter-University Accelerator Centre, New Delhi	November, 9- 12 2021
4.	Dr. M. A. Shah	Indian Materials Conclave (IndMac) and 32 nd annual general Meeting of MRSI, Indian institute of Technology Madras	IIT Madras	20-12-2021 23-12-2021
5.	Dr. M. A. Shah	ICAMMC- 2021	SRM institute of Science and technology	02-12-2021 04-12-2021
6.	Dr. M. A. Shah	International Webinar session impact	IQAC cell & Department of	27/08/2021

		Technology Impact on new education policy 2020	Computer science and Engineering Adhiparasakthi Engineering College	
6.	Dr. Prince A Ganai	International conference on Nanotechnology for better living	National Institute of Technology, Srinagar.	07/09/2021 to 11/09/2021
7.	Dr. Prince A Ganai	IPR workshop	GLA University Mathura	08/01/2022
8.	Dr. Prince A Ganai	Faculty development programme	GLA University Mathura	23/08/2021 to 29/08/2021
9.	Dr. Mohammad Zubair Ansari	International conference in Nanotechnology for better living 2021	National Institute of Technology Srinagar	07/09/2021 To 11/09/2021
10.	Dr. Mohammad Zubair Ansari	Journey from Semiconductor Physics to Smart Devices to Intelligent Automation	Jointly organized by National Institute of Technology Srinagar and Semiconductor Society of India from, 1st May – 5th May, 2021.	01/05/2021 to 05/05/2021
11.	Dr. Harkirat Singh	International conference in Nanotechnology for better living 2021	National Institute of Technology Srinagar	07/09/2021 To 11/09/2021
12.	Dr. Harkirat Singh	FDP on fundamentals of Novel Materials	Tripura University	24/08/2021 To 28/08/2021

4. Conferences, Courses, Trainings Conducted by the faculty members during the period 01/04/2021 to 31/03/2022

S.No	Name of the Co-Ordinator	Name of the program Conducted	Sponsoring Agency	Dates when Conducted
1	Prof. M A Shah	ICNBL-2021		07-09-2021 11-09-2021

4. Sponsored Projects during the period 01/04/2021 to 31/03/2022

S.No	Title of the Project	Investigator(s)	Sponsoring Agency	Amount (in INR)
1,	Modelling of oscillations in superconducting transition temperature in Superconductor/Ferromagnet hybrid systems	Dr. Harkirat Singh	DST-SERB	660000.00
2.	A cost-effective and reusable hydrogel-based superabsorbent for water filtration	Dr. Vijay Kumar	AWaDH- SpINe, IIT Ropar	1490000/-
3.	Grant under the Fund for Improvement of S&T infrastructure [FIST Program – 2021]	Prof. M.A. Shah (HOD) Dr. Vijay Kumar	Department of Science & Technology (DST), New Delhi	16500000/-

6.Details of Doctoral Programmes conducted by the department during the period 01/04/2021 to 31/03/2022

S.No	Name of Scholar	Name of Supervisor & Co- Supervisor (if any)	Topic/Area of Research	Status
1.	Mr. Aaqib Rashid Shah	Prof.Mohd. Ikram	Studies of Triple Pervoskite Oxides	Ongoing
2.	Nadeem-ul-islam Rather	Dr. P. A. Ganai	Black Hole Thermodynamics	Awarded
3.	Dr. Mudasir Ahmad Mir	Dr. P A Ganaie and Dr M A Shah	Design and development of humidity sensor based on porous alumina	Awarded
4.	Dr. Abdul MateenTantray	Dr. M. A. Shah	Structural and optical properties of zinc oxide nanostructured photoanodes	Awarded

7.Details of Testing & Consultancy services rendered by the department during the period 01/04/2021 to 31/03/2022

S.No	Title of the Project	Investigator(s)	Consultancy rendered to	Amount Earned
			Please mention Name of the agency to which the consultancy has been rendered to.	Please quote amounts informat: Rs. 00,00,000.00

8.Purchases undertaken by the department during the period 01/04/2021 to 31/03/2022

S.No	Name of the equipment/Item	Quantity	Date of Purchase	Amount of Purchase
1	Bipotentiostat	01	19-02-2022	Rs. 1,212,000.00
2	Color Printer	01		Rs. 1,00,000.00

9.Details of Patents Applied for/ Received by the department during the period 01/04/2021 to 31/03/2022

S.No	Title of the Patent	Inventor(s)	Status	Details
1	Smart shoes using nanomaterials	Shah Mohammad Ashraf Rana Sandeep Singh Nikhlish Kumar Dilwalya	Applied	NA

10.Other Relevant Information

S.No	Other Activity, Achievement or Information
01	Dr M A Shah and Surbhi Malk, Published one book, Lab in Sky for UG/PG students with New Delhi Publishers
1	Dr. Vijay Kumar: Visiting research fellow in the Department of Physics at the University of the Free State, South Africa (Host: Prof. Hendrik C Swart) [1st Oct. 2021 to 30th Sep. 2024].
2.	Editors: S. K. Tiwari, K. Sharma, V. Sharma, Vijay Kumar, Electrospun Nanofibers: Fabrication, Functionalisation and Applications, Publisher: Springer International Publishing AG Switzerland, eBook ISBN: 978-3-030-79979-3 (2021). https://doi.org/10.1007/978-3-030-79979-3

3.	Editors: Vijay Kumar, SudiptaSom, Vishal Sharma, Hendrik C Swart, Metal Oxide Defects: Fundamentals, Design, Development and Applications. Publisher: Elsevier, Paperback ISBN: 9780323855884 (2022). https://www.elsevier.com/books/metal-oxide-defects/kumar/978-0-323-85588-4
4.	Editors: Vijay Kumar, Kashma Sharma, Rakesh Sehgal, SusheelKalia, Conjugated Polymers for Next Generation of Photovoltaics, Energy Storage and Electronics, Vol II. Publisher: Elsevier, Paperback ISBN: 9780128240946 (2022). https://www.elsevier.com/books/conjugated-polymers-for-next-generation-applications-volume-2/kumar/978-0-12-824094-6
5.	Editors: Vijay Kumar, Kashma Sharma, Rakesh Sehgal, SusheelKalia, Conjugated Polymers for Next Generation of Photovoltaics, Energy Storage and Electronics, Vol I. Publisher: Elsevier, Paperback ISBN: 9780128234426 (2022). https://www.elsevier.com/books/conjugated-polymers-for-next-generation-applications-volume-1/kumar/978-0-12-823442-6

Ph.D. THESIS EXAMINED by Prof.Mohd. Ikram

1.	Ms. Suman.	Synthesis & Characterization of ZnO/Polymer Nano Composites.	Department of Physics, Faculty of Science, Panjab University, Chandigarh- 160014.	2021
2.	Md. RIYAJ.	Computational Analysis of Optical Responses of Type-I And Type-II Nano-Scale Heterostructures for Optoelectronic Applications.	Department of Electronics and Communication Engineering, of the Manipal University Jaipur, Jaipur.	2021
3.	Ms. A. Jenifer.	Synthesis and Characterization of Nanocomposites of Hydroxyapatite With Metal Complexes.	Department of Physics, Bharathidasan University, Tamil Nadu.	2021
4.	Mr. K. Karthikeyan.	Synthesis of Some Aromatic Compounds and Metal Oxide Nano Particles: Characterization and DFT Study.	Department of Physics, Bharathidasan University, Tamil Nadu.	2021
5.	M. Sankar.	Characteristic Study on Multi Metal Doped Cadmium Sulfide Nanoparticles for Photocatalytic Applications.	Department of Physics, Bharathidasan University, Tamil Nadu.	2021

11.List of Labs and Special Facilities at the Department.

S.No	Name of the Laboratory/Facility
	Laboratory for multifunctional nanomaterials X-Ray Diffraction Setup UV Visible spectrometer Scanning electron Microscope CH Instrument

12.Photos

The impressions of the participants about hybrid International Conference on Nanotechnology for Better Living at NIT Srinagar



NBL - 2021
DR. M. A. SHAH
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The 7th edition of hybrid International Conference on Nanotechnology for Better Living (NBL-21) was organized in association with many prestigious universities at NIT Srinagar from 07-11 September 2021. The inaugural session of the conference was presided over by Hon'ble Union Minister for Science & Technology, Dr. Jitendra Singh, who was the chief guest on the ceremony and spoke exclusively on Science and Technology. Prior to him, Prof Sahasrabudhe, Chairman AICTE and Prof Rakesh Sehgal, Director NIT Srinagar spoke on many scientific issues and importance of NBL-21. During the five days deliberations, number of



nology and its applications in various fields for the benefit of humankind."

In the past two decades, Nanoscience has reduced boundaries between important core areas (Physics, Chemistry, Electrical, Bio- and Mechanical sciences) and it has truly become a global interdisciplinary field with outstanding applications. I am happy to see a large number of participants attending lectures given by experts in a number of interdisciplinary topics. I hope the

Fascinating science on Nanoscale was presented and deliberations were held on the latest methods in synthesis of advanced nanomaterial and their application in various fields."

I really enjoyed my time and looking forward for next INBL conference," said Dr Shah Nawaz, University KL Malaysia. Prof Tokeer Ahmad found the conference well arranged, and the quality of lectures and speakers reflects as reflective of the hard work of organizers. Azizah A. Rahman, Secretary to the Rector felt honoured to be invited to speak and participate in the conference.

Professor Chennupati Jagdish, congratulated the staff and students at NIT Srinagar on this highly successful ICNBL 2021. He joined the valedictory function. As a Materials Researcher, Physicist Dr. M V Reddy from Canada read the conference programme and attended few talks. He found the event well organized that attracted good number of international and local speakers.

"This conference was really well-organized. A interdisciplinary platform for academics to share ideas and research findings on subjects of practical significance" were the impressions of Dr. Renuka Seenivasan from Dubai. Prof. SK Sharma, Director Academics, MIET, Jammu considered the conference as a treat to attend.

Dinesh Pandya, Advisor and Dean, IIT Jammu, gave a talk in the memory of Prof. K. L. Chopra, a great visionary,



NEWS

NIT Srinagar hosts environmental symposium on 'relation with nature'
Div Com stresses planting more trees to preserve the environment

Srinagar, Dec 10: National Institute of Technology (NIT) Srinagar on Friday organized a day-long environmental symposium titled 'Our relation with nature' in collaboration with Social Forestry, Ecology Environment & Remote Sensing (J&K) and Nigsen Lake Conservation Organization (NLCO). The speakers jointly pitched for the preservation of the environment. Divisional Commissioner (Div Com) Kashmir, Pandurang K. Pole, who was Chief Guest on the occasion, participated in plantation drive at Herbal Garden along with In-charge-Director NIT Srinagar MF Wani, Deans, and HOD's.

In his address, Mr. Pole, who was the chief guest on the occasion said highlighted the objectives of the plantings saplings initiative and stated that the administration is committed to supporting all pro-environment initiatives.

"To curb the pollution, we have plantation trees. The administration has already directed range officers to plant more at empty, open places in their respective districts," he said. "After planting tree saplings, we should also properly care for them and give them water. They are the main source of oxygen and trees are our lifeline. Planting tree is one of the best things that you can do for

nature and future generations. Mr. Pole said.

Div Com also praised the efforts of NIT Srinagar in making the green campus and urged students to protect and conserve the environment.

In-charge Director NIT Srinagar Prof. MF Wani said trees play an essential and important part in our ecosystem. Planting saplings is the future investment and we must encourage such practices on our campus.

Prof. Wani appreciated the MA Shah's efforts in organizing such events on the campus. He said NIT Srinagar will be holding such events in the future also.

Dean Akhmi and International Affairs Prof. (Dr.) Mohammad Shafi Mir said there is a need for joint efforts to preserve the environment. Recycling involves cutting down on waste and energy consumption by turning used items such as plastic bottles into new items," he said.

Mr. said transport conservation is another thing we can do since one of the biggest sources of greenhouse gases is transportation. Make better transport choices by choosing the least damaging option, he added.

HOD Physics, Prof. MA Shah was Chairperson of the symposium, while Dr. Vijay Kumar was the coordinator for the day-long program.



On the occasion, Director Social Forestry, Mr. Roshan Jaggi informed that around 150 sapplings were planted on the NIT Srinagar campus. He stated that engineers have an important role in society and they are called builders of any nation.

Mr. Jaggi also highlighted the importance of forests and their role in the environment. Both engineers and environmentalists can work jointly for a sustainable government. Although it is a difficult job but not impossible, he said.

Chairperson of the Environmental Symposium and HOD Physics, Prof. MA Shah said the goal of the program was to encourage students to take a leading role in protecting the environment.

"We at NIT Srinagar with the support of our Hon'ble Director Prof Rakesh Sehgal and administration are committed to address and work together with institutions and organizations for all major issues related to SDGs," he said.

Shah said planting tree is one of the best things that you can do for nature and future generations. A tree is a gift that keeps on giving. They clean our air absorbing harmful carbon dioxide and producing oxygen. They help to clean water, he said.

"There is no doubt that we can provide the scientific and technological work. It will sustain human life not only for us but also for future generations," Shah added.

Chairman NLCO, Munoor Ahmad Wangroo said the situation is not conducive in Kashmir. We have polluted each and every water body, wetlands and have turned them in most terrible condition, he said.

He also shared his journey, when he along with his cousins worked voluntarily on a small budget and started cleaning Nigsen Lake. Go and check there is not single polythene in the portion of the lake, he said.

President Private Schools Association of Jammu and Kashmir (PSAJ) C. N. Var also addressed the students on the occasion and stressed on the preservation of the environment.

The event was followed by Quiz, Poster, painting, and extempore speech competition. The prize distribution was held by Prof. GA Harmam, Prof. NA Sheik, Prof. M Ibrahim, and Mr. Khursid.

Dr. Sajad Principal SSMA Miss Safreena, Dr. Shakir, Dr. Naqibbhandi, and Mr. John Mohammad were the jury members for the four parallel sessions.

Prof. S. Rubab presented a vote of

thanks to the guests, deans, HOD's, faculty members, and students for making the event successful.

On behalf of NIT Srinagar, Prof. Shah thanked Deptt. of Ecology Environment & Remote Sensing (J&K) for extending support and providing diaries for the participating students in environmental programs.

The support received from (Dr. Neetu Gera (IFS)-Director), (Sh. Hafiz Ullah Mir, SFS, DCF), Regional Director Kashmir, Sh. D. P. Singh, Mass Media Officer- Kashmir, Mr. Mir Iqbal Zahoor-Environmental Forester shall be put on record by the NIT & we expect the same co-operation in future also, he said.

Mr. Tanveer Ahmad DPO social forestry Srinagar, Mehraj ud Din Regional Director Kashmir, and Mushtaq Ahmad Gofri Range Officer played a vital role in making the plantation event successful.

From the Department of Physics, the sessions were sessions managed by Professor M Akram, Prof S Rubab, Dr. M Zubair, and Dr. Harkirat coordinated the parallel sessions while M. S. 1st year students played an active role under the guidance of Mr. Dubai, Dr. Ab Wakeel and Mr. Jaffer Farooq respectively.

The event was jointly hosted by Sanna Showkat from NIT Srinagar and N Noor.

The Environmental Symposium, entitled, “Our Relation with Nature” in collaboration with Government of UT and in association with NLCO aims to become the leading annual symposium at NIT Srinagar, the first of which was celebrated in 2021. The goal is to encourage students to take leading role in protecting the environment (which is hugely complex system that includes the air we breathe, the land we live on, the water we drink and the climate around us) through knowledge, awareness and consciousness. With kind support of Prof Sehgal, Director, Faculty of the Department, Staff and Students besides Shri Manzoor Wangnoo, Chairman NLCO, Shri G N Var, Chairman, PSA and under the Chairmanship of Dr M A Shah, Professor and Head, PG Department of Physics, a marvellous one-day summit was organized for the School and College Children on 5th June 2022 with few themes as.

- (A) Unplanned urbanization: it leads to myriad problems - encroachment of land, poor runoff systems, water logging, unscientific waste dumping, minimum accessibility through roads, vulnerability of people and properly during natural calamities like floods and earthquakes.
- (B) Biodiversity loss: deforestation has led to a sharp decrease of biodiversity in our beautiful valley, humans have encroached in the wild forests to make industries, commercial and residential buildings, such areas need protection.
- (C) Untreated wastes dumped in water bodies: the hazardous bio-medical wastes from hospitals are dumped directly into the water bodies. This water is used by the local populations for various purposes, the intake of such water is carcinogenic and a health hazard.



One Week Training Program on R&D Equipment

Material Processing & Advanced Functional Material Characterization Techniques

Department of Physics and Central Research Facility Centre, National Institute of Technology Srinagar in association with Sophisticated Analytical Instrumentation Facility Panjab University, Chandigarh has successfully organized One Week Training Program on Material Characterization Techniques under Synergistic Technological Training Program Utilizing the Scientific and Infrastructure (STUTI). The training program, which was sponsored by Department of Science & Technology, GoI was coordinated by Dr. Vijay Kumar, and Prof. G.R. Chaudhary. Resource Persons for the training program were exceptionally experienced faculty members from reputed Indian Institutes and abroad. The course also stands to help researchers and students in the present state of the discipline.

Glimpse of Activities in the PG Department of Physics under the Chair of Professor Shah M.A

No	Event	Coordinator/ C0- Coordinator/Chair man	Date of Occurrence	Participants	Chief Guest	Remarks
1	ICNBL-2021	Dr. M.A Shah- Coordinator Dr . P.A Ganai- Chairman Prof. G.A Harmain- Convener ICNBL)	7 th -11 th Sept., 2021	300 participants+ Guest + Special Invitees & Dignitaries	Dr. Jitender Singh , MOS (Independent Charge)and Ministry of S&T	Event organized Successfull
2	World Science Day on Theme “Science for Peace ,Progress & Sustainable Development”	Dr. M..A shah - Convener	10 th of Nobember,2021	300 Participants + School students + Guest+ Dignitaries’	Sh.. K. Pole Div. Com. Kashmir	Event organized Successfully
3	Science Day	Dr. M.A Shah	28 th of Feb.,22	70 participants from other school including institute staff & students	Director , NIT Srinagar	Event organized Successfully
3	International Women’s Day- Celebration	Prof. Seemin Rubab Dr. M.A Shah- chairman	08.03.2022	50 Participants + VIPS +Director+ Registrar+ Special Invitees Women with higher achievements	Prof. Rakesh Sehgal (Director , NIT Srinagar)	Event organized Successfully
4	Virtual Lab- Hands on Session – in collaboration with IIT Delhi	Dr. M.Z Ansari Dr. M.A Shah (Chairman)	18 th of April, 2022	150 participants + Faculties+ B.Tech+ M.Tech+ MSc + Polytechnic	Experts from IIT Delhi	Event organized Successfully
5	STUTI Program in collaboration with PMU, Banasthali, Vidyapith, Rajashan (DST-NEW Delhi)	Prof. M.Ikram- convener Dr.M.A shah- chairman	20 th -26 th of May,22	30 participants + VIPs +Dignatories	Dr. Parvaiz Ahmad Alvi (PMU - Coordinator, Prof. & Head)	Event organized Successfully
6	I-STEM (With IISc Bangalore)	Dr. Vijay Kumar De. M.A Shah – chairman	23 rd of May,22	!00 participants +Director +Registrar+ VIPS & Dignitaries	National Coordinator, IISC Bangalore	Event organized Successfully
7	2nd Edition of Environment symposium	Dr. M.A Shah- Advisor Prof. G.A Harmain, (Dean (R&C))	05 th of June ,22	100 participants+ participants +Director +Registrar+ VIPS & Dignitaries	Director NIT Srinagar+ Chairman NALCO	Event organized Successfully
8	STUTI Program in collaboration with Punjabi University , Chandigarh (DST-NEW Delhi)	Dr. Vijay kumar - Coordinator) Dr. M.A shah- Chairman	29 th -5 th of June, 22	60 participants + Director +Registrar+ VIPs’ & Dignitaries	Prof. (Dr.) Rakesh Sehgal- (Chairman BOG & Director NIT Srinagar)	Event organized Successfully
9	STUTI Program in collaboration with Aligarh Muslim University(AMU) (DST-NEW Delhi)	Dr. Vijay kumar - Coordinator Dr .M.A Shah- Chairman	28 th -4 th of July, 22	60 participants + Director +Registrar+ VIPS & Dignitaries	Prof.(Dr.) Rakesh Sehgal- (Chairman BOG & Director NIT Srinagar)	Event organized Successfully
11	Physics Curriculum Development (PCD)- Weeklong workshop for UG/PG courses	1.Dr. M.A Shah & his Team 2.Dr. Vijay Kumar- Ph.D Coordinator. 3.Dr. Harkirat Singh –P.G Coordinator. 4.Dr. M.Z Ansari – UG Coordinator	25 th to 29 th of August., 22	100 Participants including External experts + Eminent Faculty from other universities + Students CRS +Director +Staff	1.Prof. Dinesh. .K Pandya, Adjunct Physics Profesor ,IIT Jammu 2.Prof. P.K Raina –Ex-HOD Physics, IIT R	Event organized Successfully