

THE PHYSICS BIRDS

Physics Newsletter



PG Department of Physics
National Institute of Technology
Srinagar

First Newsletter of Scientific and Social Pursuits
Autumn 2022 Issue No. 01

Founded as “the Department of Highest Order”

Our Vision: Physics at NIT Srinagar shall emerge as an attractive destination for the bright minds of the country. People should recognize us for the excellence in **Innovative Teaching, Scientific Research and Creative learning**, keeping pace with evolving knowledge domains.

Our Mission: To inculcate the highest degree of confidence, academic excellence, professionalism and ethics in our students. Beginning new ideas, new ways of understanding and new ways of knowing, through a diverse dynamic environment in the class room, where students interact with people who come from different walks of life.

Our Guiding Principles/ Leadership:

We avoid the path of least resistance, exploring fresh approaches with an open mind and optimistic spirit. **We spin Ideas into action and when mistakes occur, lessons are learnt.** In the pursuit of scientific knowledge, we are brought together and we uphold the dignity of all members.

Dr. M A Shah
Professor & Head

Compiled by PG Department of Physics

National Institute of Technology Srinagar

Editorial Boards & Contents of the 1st Issue (Autumn 2022)

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**Students of the Department engrossed in Various Scientific Activities and Now
Science Communication**

Message from Director,



I am honoured and glad that the PG Department of Physics, National Institute of Technology Srinagar is bringing the first issue of **Physics Newsletter** with an intention to highlight the milestones achieved in the last academic year, besides sharing the information about the latest research being carried in the Department.

Recently the department has conducted three STUTI Programmes, which were sponsored by DST New Delhi, one international conference on “Nanotechnology for Better living” ICNBL-21 and one Short Term Courses (STC) on Smart Devices. The International Conference is interdisciplinary in nature which is extremely relevant in today’s world and specially when our New Education Policy has emphasized on interdisciplinary/multidisciplinary research.

A large number of faculty and students were benefited from colleges and universities. A group of School children and young faculty of neighbouring institutions under different programmes including Unnat Bharat Abyan have taken part in the programmes and for them, dedicated sessions were organised.

I am also pleased to mention that the department has state of the art laboratory facilities with modern sophisticated equipment purchased through various funding schemes including through Nano-Mission, Govt of India. Recently approved FIST Programme will add three more versatile equipments. *It is because of the availability of equipments we have been awarded many prestigious programmes including i-STEM by the Ministry of Science and Technology, Govt of India.* The rewarding experience of sharing the sophisticated facilities will lead to the growth and promotion of Science and Technology for solving the societal issues in the region.

It is also pleasure to mention that the pass outs from the Department are entering in prestigious laboratories across globe and few are competing competitive examinations. I congratulate the Physics faculty, staff and Dr M A Shah, Professor & Head of the Department bringing the first issue of **Physics Newsletter** in August 2022.

I wish Bright future to Faculty, staff and students of the Department.

Prof (Dr.) Rakesh Sehgal
Director

Message from Head,



P.G Department of Physics

NIT Srinagar (J&K)

August 30th, 2022

Greetings from NIT Srinagar

Dear Students



On behalf of my dear colleagues and on my personnel behalf as the Head, PG Department of Physics, we have the distinction to be among the first to congratulate and welcome you at NIT Srinagar. Earning a place in NIT Srinagar is an achievement and we are delighted that you will continue your intellectual journey in this prestigious institution, which is blessed with a diverse community. You will discover that one of our defining characters is our commitment to freedom of enquiry and expression. Mutual respect and civility are the vital to all of us and you will find that you will only be engaged in debates, discussions, deliberations and at times this may cause discomfort to you.

We also have the distinction to be first in revamping and overhauling the Physics Curriculum among all NITS and in the Union territory of Jammu and Kashmir as per New Education Policy 2020. The e-brochure as well as hard copies is now updated and contains practical information of the Masters' Programme in systematic manner and has been updated according to the guidelines in New Education Policy 2020. The programme with its core-specialization structure offers a wide variety of possibilities, enabling you to pursue your particular ambitions and interests in this fascinating area of physical science. Courses at different levels of specialization will enable you to deepen your physics knowledge and find out how it is applied in modern research and development. There are various electives and optional subjects which are interdisciplinary and has immense applications in all spheres of life. It is at par from the existing syllabi of other universities and other NIT's/IITs.

The department has around seven (07) state of the art laboratory facilities with modern sophisticated equipment and is made open to the interested students of the country, where they can carry their summer/winter internships also. We are convinced that we have created a rewarding and challenging UG/PG programme in Physics for the first time in the History of NIT Srinagar that keeps its promise which will prepare you for the future. We are less in number nevertheless academically sound galaxy of eminent faculty having specializations in thrust areas are always available to our students. An individual's ability to think outside the box, find future solutions to future problems, collaborate and reach a consensus across cultural and national borders is urgently required. In an age of education where standardized tests determine the success of our schools, it is important to allow students the creativity and use the power of technology to support necessary skills and learn in unique ways. By allowing creative thinking and gauging understanding of content standards through a portfolio based system, students can display their concept retention while producing tangible and valuable outcomes.

There is an African proverb that says, "if you want to go fast, go alone and if you want to go far, go together". At NIT Srinagar, in the Department of Physics, we choose to go together. We look forward to meeting and working with you. If you have any questions regarding this brochure, please feel free to contact shah M A at shahji@nitsri.ac.in.

Once again, welcome and wish you a good start!

Dr. M. A. Shah

Editorial Board of Physics Newsletter

S. No.	Faculty Name Specialization/Research Interest	S. No.	Faculty Name Specialization/Research Interest
	Head/Chair Department of Physics	1	 <p>Prof. M. A. Shah Nano-Materials & their applications for: Energy Environment Food & Agriculture Author: Science of Small</p>
2	 <p>Prof. Mohd. Ikram Material Science, Thin Films, Swift Heavy ion Irradiation, Nanoscience, Magnetism, EPR and Superconductivity</p>	3	 <p>Dr. Seemin Rubab Renewable Sources of Energy, Nanoscience</p>
4	 <p>Dr. Prince Ahmad Quantum Gravity, Blackhole Thermodynamics, Quantum Information, Galaxy Clustering, Theoretical Nuclear</p>	5	 <p>Dr. Vijay Kumar Functional Materials, Solid-State Luminescent Materials, Super-absorbents, Smart Materials</p>
6	 <p>Dr. Mohd Zubair Ansari Experimental Solid-State Physics, Nanotechnology Thin Films, Heterostructure, Semiconductor nanomaterials, Solar Cell,</p>	7	 <p>Dr. Harkirat Singh Lightly Doped Superconducting Thin Films, Single Crystals, Quantum Information Processing, Magnetic Thin Films</p>

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Mr. Lav Patel

MILESTONES

Five-day “International Conference on Nanotechnology for Better Living”

The five-day long 7th edition of biennial International Conference on Nanotechnology for Better Living (NBL-21) was organized from 7th to 11th September. It was inaugurated by Union Minister of State, Science & Technology; Minister of State, Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, **Dr Jitendra Singh**. On the occasion, Dr. Singh congratulated the entire faculty of the Institute for organizing a conference on Nanotechnology. Some of the dignitaries who delivered their talks were the former Advisor to Hon’ble Governor of J&K, Khurshid Ahmad Ganai, Chairman of All India Council for Technical Education (AICTE), Prof. Anil Dattatraya Sahasrabudhe, Professor Meyya Meyyappan, scientist and an ex-chief of NASA Lab, Noted scientist, Dr. Saifullah Lone Vice-Chancellor University of Kashmir, Prof Talat Ahmad, VC Central University of Kashmir, Prof. Mehraj Ud-din Mir and former Director SKIMS Prof. AG. Ahangar.

Jitendra inaugurates 5-day Int’l Conference at NIT Srinagar



K H News Service

Srinagar/September 07: Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr. Jitendra Singh inaugurated the 5-day International Conference on Nanotechnology for Better Living at National Institute of Technology (NIT), here Tuesday.

This is the 7th Edition of the

Conference and is being held under the aegis of Materials Research Society of India in association with Anna University, SKUAST-K, NIT Mizoram, SSM College of Engineering, IIT Madras, SKIMS, M G University Kerala, and in collaboration with Nanoscale Research Facility (NRF), IIT Delhi. The Conference will be held in hybrid mode and around 300 participants from outside will take part in it. Addressing the participants at the event, Dr. Jitendra Singh said that India has taken a giant leap forward

in the field of science under the able guidance of Prime Minister Narendra Modi. He said that India always had superlative scientific temperament but there was lack of desire to implement it in the past but the gap has now been filled. Commenting on the progress made by India in the recent years, the Minister said that the present dispensation has removed taboos and opened up the field to private players and start-ups. He said that the atomic energy field was shut behind a veil of secrecy and it was only PM Modi who gave the permission to expand India's nuclear programme.

Dr. Jitendra Singh said that in the past, science and technology could not flourish because of lack of resources but it is happening now and India is emerging as a leading global player since privatisation has been made possible by PM Modi.

See Jitendra On PG 06.

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On the horizon

3

Kashmir Horizon

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Five day int. conference on Nanotechnology concludes at NIT Srinagar

Dir appreciates Dr. Shah, pitches for joint efforts to make the NIT Srinagar among the best institutions in India

K H News Service

Srinagar/Sept. 11: The five-day long seventh edition of biennial International Conference on Nanotechnology for Better Living (NBL-21) concluded at the National Institute of Technology, Srinagar on Saturday.

The conference was held under the aegis of Materials Research Society of India (MRSI) in association with Anna University, SKUAST-K, NIT Mizoram, SSM College of Engineering, IIT Madras, SKIMS, M G University Kerala, and in collaboration with Nanoscale Research Facility (NRF), IIT Delhi from 7th to 11th September.

On Saturday, the proceedings of the valedictory session were coordinated by Dean Research and Consultancy NIT Srinagar, Prof. G. A. Harman and Former Head Physics, Dr. P. A. Ganale.

In his message, Director NIT Srinagar, Prof. (Dr.) Rakesh Sehgal said the scientific provided a vibrant platform to participants from across the globe and they discussed path-breaking research ideas about nanotechnology and its relevance.

He also lauded the role of Dr. Shah and his entire team for conducting a five-day conference successfully in hybrid mode.



Prof Sehgal said there is need for joint efforts to make the NIT Srinagar among best institutions in the entire country," he said.

Registrar NIT Prof. Kaiser Bukhari said the international conference acted as a platform for young researchers of the Institute and other participants from across the globe. We will host more such conferences in the future," he said.

Besides all delegates of NBL 2021, faculty members of the department, and research scholars have made their presence in the session. While online presence was much more from all corners of the globe.

NIT Srinagar celebrates National Science Day

Srinagar, Feb 28 2022: Under the Azadi Ka Amrit Mahotsav celebrations, P G Department of Physics, National Institute of Technology (NIT) Srinagar on Monday celebrated the National Science Day 2022, in which a large number of Class XI-XII Science students from various schools of valley participated. The event was organized in association with the Sophisticated Analytical Instrumentation Facility (SAIF), Panjab University Chandigarh Under "Synergistic Training Program Utilizing the Scientific and Technological Infrastructure" Supported by Department of Science and Technology, Government of India.

Director NIT Prof. (Dr.) Rakesh Sehgal praised Department of Physics especially HOD Prof. MA Shah and Dr. Vijay Kumar for taking a lead role in celebrating National Science Day 2022 on the NIT campus. "By organizing such events, we are in a position to give something back to our society. No doubt we are a professional institution imparting technical and science education at all levels but NIT will always act as a platform for the young generation," he said.

Prof. Sehgal said the theme of National Science Day 2022 is 'Integrated Approach in Science and Technology for Sustainable Future'. It is given by honorable Union Minister for Science and Technology, Dr. Jitendra Singh, he said. He said from Medical sciences to agriculture, India is progressing in every field with science and technology. No technology will be successful until we make it sustainable. Now we are moving towards non-conventional resources, wind, solar energy because people have started thinking about sustainable development, he said.

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



International Women's Day- Celebration

Srinagar, Mar 08, 2022 The National Institute of Technology (NIT) Srinagar on Tuesday celebrated 'International Women's Day' on the campus in which speakers lauded the contrition of women folk in the society.

The event was organized by Department of Physics and the theme for this year's Women's Day is "Gender equality today for a sustainable tomorrow", recognizing the contribution of women and girls around the world for climate adaptation and mitigation.

Prof. Seemin Rubab from the Physics department was the event coordinator, while Senior Scientist, Dr. Nasheeman Ashraf from CSIR – Indian Institute of Integrative Medicine, Sanat Nagar was the chief guest and Prof. (Dr.) Massarat Khanon was guest on the occasion. In her key address, Dr. Nasheeman Ashraf shared her inspiring academic and professional journey with the young women audience of the college. "There is no shortcut to success and one can achieve their goal only through hard work and dedication. Education is the tool which can help one in achieving his/her goals," she said.



Workshop and Hands-On training on Virtual labs

**Organized by National Institute of Technology Srinagar, Hazratbal, Srinagar, J&K with collaboration Indian Institute of Technology Delhi, Hauz Khas, New Delhi
18th April 2022**

“Virtual labs are any place, any pace, any-time, any-type labs. It is paradigm shift in student-centric online education.”

Preface: A good lab facility and up-to-date lab experiments are essential for any engineering college. Experiments are frequently made difficult due to a lack of laboratory facilities and trained teachers. The Virtual Labs project addresses the issue of lack of good lab facilities as well as trained teachers by providing remote access to simulation-based labs in a variety of science and engineering disciplines. Inspiring students' curiosity and allowing them the freedom to learn at their own pace. Through simulation-based experimentation, this student-centered approach facilitates the absorption of basic and advanced concepts. The use of additional web-resources, video-lectures, animated demonstrations, and self-evaluation is also possible with Internet-based experimentation. The objective was to provide remote access to science and engineering simulation labs and spark students' curiosity to conduct experiments. Remote experimentation helps them learn basic and advanced concepts.



Photographs of Workshop and Hand-on session on Virtual lab organized by National Institute of Technology Srinagar in collaboration with IIT Delhi on Monday, 18th April 2022.

STUTI Program in collaboration with PMU, Banasthali, Vidvapith, Rajasthan (DST-NEW Delhi)

Srinagar, May 20, 2022: Seven-day-long training cum hands-on program on advanced experimental techniques for Materials Science began at the National Institute of Technology on Friday.

The program is organized by the P G Department of Physics, in collaboration with Banasthali Vidyapith, Rajasthan under Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) and is supported by DST, Govt. of India. The inaugural session of the workshop was presided over by Director NIT Srinagar, Prof. (Dr.) Rakesh Sehgal, while Prof. M Chalkoo, from GMC Srinagar, delivered a lecture on new instruments for surgery.

Director NIT Srinagar, Prof. Sehgal expressed his gratitude to the r. M Ikram Department of Physics for organizing such programs. He acknowledged and appreciated the collaboration of Banasthali Vidyapith University for such initiative. A team of professors from Banasthali who are collaborators spoke during the event. He also extended his warm greetings to Dr. Shah and his team getting the prestigious project. Such projects are taking the institute to new heights in the field of academics and research,” Prof. Wani said.

HOD Physics and Chairman of Program, Dr. MA Shah said the aim of the program is to make aware students and faculty about the program.



I-STEM (With IISc Bangalore)

The National Institute of Technology (NIT) Srinagar 23rd May 2022 organized an 'awareness workshop on I-Stem portal for the use of R&D resources and formal inauguration of STUTI Programme. The event was organized by the Department of Physics, in association with the Indian Science, Technology and Engineering Facilities Map, (I-STEM), supported by the office of the Principal Scientific Advisor, Govt of India. Dr. Vijay Kumar was the convener of the workshop. The event was presided over by prominent personalities including Director SKIMS, Prof. Parvaiz A. Koul, Professor S.K Mehta, Vice-Chancellor, University of Ladakh, Director NIT Prof. (Dr.) Rakesh Sehgal, Registrar Prof. Syed Kaiser Bukhari, Prof. S. A Shivashakar, Co-ordinator, I-STEM, IISc Bangalore, and Prof. Navakanta Bhat, IISc Bangalore, and Prof M F Wani, Dean R&C, besides other eminent personalities from Banasthali Vidyapith and Central University Jammu. Similarly, another program titled, 'Training cum hands-on program on advanced experimental techniques for Materials Science,

STUTI was also inaugurated. It is supported by DST, the Government of India.



Environmental Day 2nd Edition of Environmental Day on 5th June 2022

“Our Relation with Nature”

Preamble: All of the UN's Sustainable Development Goals (SDGs) have some connection to the environment and the Goal 6 (Clean Water and Sanitation), Goal 7 (Affordable and Clean Energy), Goal 11 (Sustainable Cities and Communities), Goal 12 (Responsible Consumption and Production), Goal 13 (Climate Action), Goal 14 (Life Below Water), and Goal 15, (Life on Land) are issues to be discussed on 5th of June 2022. We at NIT Srinagar are committed to address all major issues related to SDGs in collaborations with prestigious institutions of the government and organizations.

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

May 30 – June 5, 2022

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 content of the invited talks reflects the wide variety of sophisticated instruments such as SEM, XRD, Nanomechincal system, Multi-Target Sputtering system, WDXRF, Rheometer, Particle size analyzer, Axis Laser Texturing UV Visible, FTIR, Raman, TGA/DSC, etc. There were around 30 participants from India and abroad. The scientific sessions were highly useful for the budding researchers who participated in the training program. This training program was for a range of academics like faculties, scientists, Post-Doc Fellows, Ph.D. scholars and industrialists who are actively involved in R&D and seek knowledge of various characterization techniques. The course also stands to help researchers and students in the present state of the discipline.



One Week Training Program on

“Material Characterization Techniques”

28th June to 4th July 2022

Departments of Physics and Mechanical Engineering Department of National Institute of Technology, Srinagar (J&K) in joint collaboration with the Department of Physics, Aligarh Muslim University, Aligarh 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 convened by Dr. Vijay Kumar, Dr. Mukund Dutt Sharma, Prof. Prof. Bhanu Prakash. Resource Persons for the training program were exceptionally experienced faculty members from reputed Indian Institutes. The content of the invited talks reflects the wide

variety of sophisticated instruments such as SEM, XRD, Nanomechincal system, Multi-Target Sputtering system, WDXRF, Rheometer, Particle size analyzer, Axis Laser Texturing UV Visible, FTIR, Raman, TGA/DSC, etc. There were around 30 participants from India and abroad. The scientific sessions were highly useful for the budding researchers who participated in the training program. This training program was for a range of academics like faculties, scientists, Post-Doc Fellows, Ph.D. scholars and industrialists who are actively involved in R&D and seek knowledge of various characterization techniques. The course also stands to help researchers and students in the present state of the discipline.



Physics Curriculum Development (PCD)-

Weeklong workshop for UG/PG courses

July 25, 2022 To bring the desired transformation in Curriculum in tune with NEP 2020, the weeklong workshop on 'Physics Curriculum Development' (PCD) began on Monday at the National Institute of Technology (NIT) Srinagar. The unique workshop is being organized by PG Department of Physics from 25-29 July 2022 and the inaugural function of program was presided over by Director NIT, Prof. (Dr.) Rakesh Sehgal, who was the chief Patron on the occasion.

Director NIT Srinagar said "Our Physics department is the first in Jammu and Kashmir to roll out NEP- 2020 from the academic session 2022 onward, under the visionary leadership of Prof Shah, who has been at forefront. It is the positive beginning and we will provide every support for establishment of laboratories for experiential learning."

This new education has provision for awareness of new areas of knowledge, skilling to meet industrial demands for economic development, lifelong learning, and multidisciplinary studies to develop a comprehensive view of issues and moral values, which will all be taken care. Dr. Shah said all parameters have been taken into consideration for framework and expressed his hope for exciting and fantastic output by the end of workshop. This framework is formulated with a student-centric approach and provides flexibility in terms of choice of disciplines of study", he said.

Eminent experts have been invited for mind blowing discussions and suggestions on the contents of the curriculum. This will also include rigorous discussions with various stakeholders, students, local experts including the eminent scientists from IITs/ IISERS and Heads of Departments, for both undergraduate and postgraduate curriculum. Prof. Dinesh Pandaya, Adjunct Faculty, IIT Jammu, Prof. P.K. Raina, Former Head Physics, IIT Ropar, Prof. G A Harman, Dean R & C, Prof. Ghulam Qadir Sofi, Ex-Principal were present during the inauguration of the academic event.

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 Nigeen 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 to plant more trees. The administration has already directed range officers to plant more at empty, open places in their respective districts," he said.

"After planning 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 Alumni 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. 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



On the occasion, Director Social Forestry, Mr. Roshan Jaggi informed that around 150 saplings 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, Manzoor Ahmad Wangnoo 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 Nigeen 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 (PSAJK) G.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 Harmain, Prof. NA Shiekh, Prof. M Ikram, and Mr. Khurshid.

Dr. Sajad Principal SSM Miss Safeena, Mr. Shakur, Er Naqshbandi, 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 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. Neelu Gera (IFS)-Director, (Sh. Hafiz Ullah Mir, SPS, (DCF) - Regional Director-Kashmir), Sh. D.P Singh, Mass Media Officer- Kashmir, Mr. Mir Iqbal Zahoor-Environment Forester shall be put on record by the NIT & we expect the same co-operation in future also, he said.

Mr. Tanveer Ahmad DFO social forestry Srinagar, Mehraj ud Din Regional Director Kashmir, and Mushtaq Ahmad Goji 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.Sc 1st year students played an active role under the guidance of Mr. Dubai, Dr. Ab Wakeel and Mr. Jafaer Farooq respectively.

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

Need To Aware People Of Their Responsibilities Towards Environment: Dir NIT

SRINAGAR: The National Institute of Technology (NIT) Srinagar on Saturday celebrated the world environment day, on the theme of 'Science and Climate Change' in which speakers vowed to minimize usage of plastic, polythene and highlighted global climate change and its adverse impacts.

While addressing virtual webinar in his keynote address, Director NIT Srinagar, Prof. (Dr.) Rakesh Sehgal said there is need to be more practical and take an oath that we will minimize the use of plastic in our lives and try to use alternatives that can be recycled.

"To protect the environment, we should start from our own houses, institutions, offices and localities. These small steps will protect our environment at a larger level. We should plant more and more trees and make our community aware of their responsibilities towards the environment," he said.

Dr. Sehgal said if we remain in a green and hygienic environment that would please everyone in our societies. It will bring a positive change and vibrant change, he said.

Director NIT Srinagar also expressed his gratitude to Physics and Chemistry de-

partments for organizing a webinar to observe world environment day.

The theme for World Environment Day 2021 was 'Ecosystem Restoration' and Pakistan was its global host for the day.

Registrar NIT Srinagar, Professor Kaiser Bukhari said the ecology of the region is very fragile and "we all need to do our bit to save the unique natural wealth.

"We have to work with our people, government, and grassroots organizations to emphasise the importance of the environment and take collective action, can there be a tangible change," Prof. Bukhari said.

NIT Srinagar, IJ&K State Centre, IJ&K Forest Dept. observe world environment day

KV NEWS NETWORK

SRINAGAR: The National Institute of Technology (NIT) Srinagar and Institution of Engineers (India) J&K State Centre, Srinagar (IJ&KSC) and National Institute of Disaster Management (NIDM) on Saturday celebrated the world environment day.

At NIT Srinagar a virtual event was jointly organized by the Department of Physics and Chemistry and Prof. MA Shah was the brain behind the day-long event.

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"We have to work with our people, government, and grassroots organizations to emphasise the importance of the environment and take collective action, can there be a tangible change," Prof. Bukhari said.

Director disaster management J&K and alumni NIT Srinagar, Aamir Ali Mir, who was chief guest on the occasion said nature has bestowed with a lot of resources but unfortunately due to the greed of humankind, we are exploiting them on a large scale more than requirement.

"It has led to an imbalance in the environment and following which nature has responded through natural disasters. Nature has its own

way of restoring the ecosystem and as we witnessed during Covid19 lockdown, quality of air, water improved and there was less pollution," he said.

Mir said there is a need to use less fossil fuels in many ways. We should encourage the use of organic stuff. The government should try to facilitate that public transport system in such a way that people use it more, he said.

"More focus should be laid on renewable energy rather than energy coming from other sources. At the individual level we should plant more trees and at the government level with massive plantation drives to cover the catchment areas," he added.

Dean School of Social Science and Head Department of Religious Studies, Prof. Hameed Naseem Rafiabi said there is need to involve the students to conserve the dying water bodies in the region.

"Both Central University of Kashmir and NIT Srinagar can sign a MoU and start work on the ground jointly in preserving the environment. We have to take a call on our own without waiting for someone else to assist us and make our people aware about the important issue," he said.

Meanwhile, a webinar on World Environment Day was observed by Institution of Engineers

(India) J&K State Centre, Srinagar (IJ&KSC) and National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India in collaboration with Divisional Administration Kashmir, Govt. PG College for Women, Gandhi Nagar Jammu, J&K Forest Department, SSM College of Engineering and Technology Parihaspura and J&K State Emergency Operation Centre, Srinagar. The theme of the Webinar was "Ecosystem Restoration for improved relationship with Nature."

The speakers for Webinar were Dr. Sangita Nagari, Principal Govt. PG College for Women, Gandhi Nagar Jammu, Er. Aamir Ali, Chairman Institution of Engineers (India) J&K State Centre, Srinagar, Dr. MRD Kundangar, Former Director (R&D) J&K LAWDA, Mutaherra Abida, Senior Scientist J&K Pollution Control Board, Er. An Ali Shah, Conservator of Forest, Dr. (Professor) Shakil Ahmad Romshoo, Dean Research, University of Kashmir, Dr. Amir Ali Khan, Faculty NIDM, Er. Syed Shabir Ahmed Ruffai, Director Skill Development SSM College of Engineering, Parihaspura. The Webinar was coordinated by Er. M. Aaqib Sultana Waheed Deva, Honorary Secretary, IJ&KSC, Yogita Grabya, Young Professional NIDM, Bilqees Dar and Mohammed Suhail Wani, Consultants Disaster Management. A documentary on Environment day prepared by Er. Abdul Rashid Bhat, from University of Kashmir was also played during the webinar.

Jio customers in Anantnag village annoyed over poor services



JAHANGIR GANAIE

ANANTNAG: Jio consumers in south

no option but to change to another service provider," Shakeel Ahmad, an annoyed consumer, said.

Students, youth have to be active partners in environment protection initiatives: Prof Talat

KU celebrates World Environment Day

KV NEWS NETWORK

SRINAGAR: The University of Kashmir on Saturday organised an online seminar to mark the World Environment Day. Vice-Chancellor Prof Talat Ahmad inaugurated

presented a brief about the achievements and functioning of the Department of Environmental Science and Dr Mohammad Muslim, Coordinator webinar conducted the proceedings of the inaugural session and also presented a vote of thanks. Dr Satya Kumar, Scientist-G & Senior Professor,

Collective responsibility to extend support to administration amid pandemic: Director NIT

Pays tributes to Prof KL Chopra

SRINAGAR: The National Institute of Technology Srinagar on Monday paid rich tributes to a distinguished physicist and administrator, Padma Shri Prof. Kasturi Lal Chopra, who died while battling Covid19 on 19th May.

The condolence meeting was organized by Dr. M A Shah and his students, Department of Physics, NIT Srinagar, to pay the tributes to the legend Prof. KL Chopra and other academicians across the country who lost their battle against Covid19 pandemic.

Special mention was made of AMU, DU, JMI and University of Kashmir, who lost Prof G M Bhat and Prof Fazil.

Director NIT Srinagar, Dr. Prof. Rakesh Sehgal said they lost a great person in the field of Physics and will be always remembered for his noted work.

"It is very sad and emotional to learn everyday about the deaths of academicians and our colleagues. They are national and international assets and indeed it is a great loss," he said.

Dr. Sehgal said it is collective responsibility to extend our support to administration during this time in whatever way it is possible. We are technical people and we can help the administration in many ways in tackling the crisis, he said.



Director NIT Srinagar prayed for peace for all those departed souls including academicians and outstanding scientists like Prof. Chopra who lost their lives during Covid19.

Registrar NIT Srinagar, Prof. SK Bukhari in his condolence message prayed for the departed soul and stated that Prof. Chopra was a great asset of the country and termed his departure a big loss.

"This is a shock we were not prepared for, but we shall certainly cherish the memories of our association with such a fine soul - ever-smiling, polite and suave," Prof. Bukhari said.

Prof. MA Shah from the PG Department of Physics said it is an obligation on all of

us to remember our great teachers who lost their battles against the pandemic during this second wave.

While paying rich tributes to Prof. KL Chopra, he said his contribution in science and technology will always be remembered. He has nourished thousands of students across the country and particularly in the valley.

"Professor Chopra also distinguished himself as a rare scientist who had expertise in his field, not only as a renowned teacher, but also as a much-respected scientist," he said.

"NIT Srinagar shall remember his contribution for extending support to organize INSPIRE and International Conferences.

NIT Srinagar shall stand by his family by all means" Prof. Shah said.

Prof. Shah's interactions and relations with Prof. Chopra were very deep and memorable. While paying tributes in emotions, said, Oh God open the doors of heaven for his soul and have mercy upon him.

It is the right time that Teacher's societies/ Organizations and alumni should help administration to expand Medical Infrastructure within premises of universities and institutions to set up small oxygen plants and oxygen supported beds.

On the occasion, Former Chairperson NIT Srinagar, Prof. M J Zarabi said his association with Prof. Chopra is from 1971 when he was a research student in Bangalore.

"We worked together on several projects as fellows and it is a big job to all of us. There is no parallel to his intellectual honesty and he will be remembered for his great work," Prof. Zarabi said.

Paying rich tributes to Chopra, Director NIT Mizoram, Prof. Rajat Gupta said Prof. Chopra was not only an exemplary academican but a great mentor and friend to me.

"He was very passionate about imparting education to others and was excited about his students. He was a great human being and I will pray for his departed soul," Prof. Gupta said.

On the occasion, Prof. M K Paswan said Prof. Chopra was a friend of friend and would always help his students. His departure is a great loss to the engineering fraternity and

it is a terrible loss and our thoughts are with his family through this difficult time.

While, Professor, M S R Rao in his condolence message said it is very sad news indeed - came to know of it a few days back. I have known him from IIT days (he became the Director one year before I graduated).

Prof. Chopra has inspired many generations of scientists, his invaluable contribution in nurturing Indian science at all levels and prayed for his soul. "We keep meeting in the bi-annual thin film conferences (last one was at IISc). He never missed this event all these years and was always energetic. May his soul rest in peace, he said.

Prof. G A Harmain from Mechanical Engineering Department, termed Prof. Chopra's death as colossal loss to academia and such individual are universities in themselves.

"Such soldiers march without star or angel as their guide and conquer those territories where ordinary souls fear to tread. The shine of this star shall keep on glowing and will be a marker in vast sky of ignorance," he said.

Prof N A Sheikh, HOD Mechanical has sent his condolence message for Prof Chopra and said he had been fortunate enough to meet him during INSPIRE Programmes.

Many students from NIT Srinagar and other institutions sent condolence messages for the departed soul and paid tributes to the legend. Lastly on the advice of Prof. Rajat Gupta, a standing ovation in silence was made for the departed souls across the globe.

NIT Srinagar pays rich tributes to Prof. KL Chopra

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Five day long STC concludes at NIT Srinagar

We must build facilities to be more self-reliant in new technologies: Director NIT
 Concluding day sessions were attended by more than 350 participants

BK NEWS SERVICE

Srinagar : Five-day long short-term course (STC) on "Semiconductor Physics to Smart Devices to Intelligent Automation" concluded at the National Institute of Technology (NIT) Srinagar on Tuesday, in which speakers pitched for building up more self-reliant technologies in India.

The virtual event was organized by the Department of Physics NIT Srinagar in collaboration with the Semiconductor Society of India and Prof. MA Shah was the convener of the five-day-long event. The concluding day sessions were attended by more than 350 participants.

While addressing STC, in his keynote address, Director NIT Srinagar, Prof. (Dr.) Rakesh Sehgal urged students to work hard for the progress and development of the nation.

"Presently, we are still dependent on other countries for various technologies and India is a big country with huge market," he said.

He said that the need of the hour is that, we must build facilities where our students can learn and become make India self-reliant for new technologies.

Dr. Sehgal said all sessions of the STC were an eye-opener for all participants and NIT Srinagar will be organizing such lectures in the future also so that students can get benefited from their initiatives.

He also appreciated physics department



faculty including Prof. MA Shah and stated that the department has worked effectively to make five-day STC successful.

Registrar NIT Prof. Kaiser Bukhari also extended his warm greetings to Physics department for conducting STC successfully.

He said course was aimed to touch various aspects of the growing technology including

working principles of semi-conductors, the latest advances, and future devices.

Prof. Bukhari also appreciated the faculty of the Department of Physics particularly Dr. MA Shah.

"NIT Srinagar will be conducting such events in the future also," he said.

On the fifth and last day, Prof. Shenoy,

Department of Physics, IIT Delhi delivered a lecture on Semiconductor Optoelectronic Devices while Prof. Chennupati Jagdish, AC, MNAE (Australian National University) threw light on Semiconductor Nano-wires: Optoelectronics, Energy and Neuroscience Applications.

It was followed by a valedictory session of STC, which was presided over by Dr. M. J. Zarabi, Former Chairman, BOG NIT Srinagar, who was Chief Guest on the occasion.

Dr. Zarabi's citation and introduction was read by Dean Alumni NIT Srinagar, Prof. M. S. Mir.

On the occasion, Prof. Zarabi said NIT Srinagar is doing good work and hoped that it will continue to touch the skies in near future.

The response of the session was very positive and all participants were benefited from the resource persons, he said.

"I was impressed by the final day sessions and urged NIT Srinagar to conduct more such events for the students. Although skills are important but students should also pay more attention in clearing their doubts and get a good understanding of basics," Prof. Zarabi said.

Sharing his journey, he said the journey of semi-conductor started way back in IISC Bangalore when he was pursuing his Bachelors in Electronics and Communications.

NIT Srinagar hosts webinar on pursuing Quantum career in age of neural networks

K H News Service

Srinagar/April,9: The Department of Physics, National Institute of Technology (NIT) Srinagar Friday organized a webinar on 'Pursuing Quantum Career in the Age of Neural Networks'.

The virtual session was presided over by Director NIT Srinagar Prof. Rakesh Sehgal. While Registrar NIT Srinagar Prof Kaiser Bukhari, HOD Physics Dr. Prince A . Ganai, faculty members, and students of the department also attended

the session.

The session was hosted by Dr. Rukhsan ul Haq, Quantum AI Scientist at IBM, and shared his vast experience with the students. Prof. Sehgal said Quantum physics has vast opportunities and our students should be aware of these things and which are very helpful.

"Such sessions are playing an important role and students should know about pursuing Quantum career in the age of neural networks. There are several specializations in this field which can lead

to a career in quantum computing "he said.

Sehgal said NIT Srinagar will host such webinars and seminars for research scholars and students in the future also. Our institution will extend every possible support for such initiatives, he said. Registrar NIT, Kaiser Bukhari also appreciated the Physics department for conducting webinars on relevant themes. He said these sessions are need of the hour and very helpful for opting a career in Quantum technologies.

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On the occasion, HOD Physics Dr. Prince A. Ganai said welcomed the guest Dr. Rukhsan ul Haq and stated that both faculty members and students were interested in the discussed topic.

Ganai said Dr. Haq is among brightest students from the Valley. I have met him several times and he has been always wonderful for his understanding and thoughts.

Dr. Haq is a quantum Artificial Intelligence Scientist at IBM, former series forecasting and

Analyst at Johnson and Johnson. He is also the founder of the Kashmir Institute of Mathematical Sciences (KIMS).

While interacting virtually with students, Dr. Haq shared his vast experience in Quantum physics with the students and urged them to work hard to make a career in the developing field.

During the session, Dr. M.A. Shah said NIT Srinagar should take lead in going to the data center and then to artificial intelligence. He urged Dr. Haq to visit the campus and identify the students whom department can send for training in the future.

The concluding remarks were presented by Dr. Seemin Rubab and she thanked the speaker for his wonderful session. "It was a very interactive session as there were plenty of questions asked by students during the online session," Dr. Rubab said.

Apart from faculty, the webinar saw good participation from 50-60 students and research scholars from the Physics department.



Students have utmost role in contributing towards the environment: Director NIT

NIT Srinagar hosts workshop on Mercury

K H News Service

Srinagar/June,19: The National Institute of Technology (NIT) Srinagar on Saturday organised a day long awareness workshop on Mercury (Hg) as a global pollutant.

The event was jointly organised by Laboratory of Multifunctional Nanomaterials (LMN), NIT Srinagar in collaboration with Centre for Minamata Convention Indian Institute of Technology (IIT) Hyderabad.

While Dr. Asif Qureshi, Professor from Department of Civil Engineering, IIT Hyderabad was the speaker of the event.

The session was attended by Director NIT Srinagar, Prof. Dr. Rakesh Sehgal, Registrar NIT Prof. Kaiser Bukhari while Dr. M. A. Shah from the Physics department was the brain behind organising the workshop for the betterment of students and faculty.

On the occasion, Dr. Sehgal said mercury is a global toxic pollutant and is released into the environment through a range of natural and anthropogenic sources. "It can travel long distances, bioaccumulate in food chains and cause harmful neurological and cardiovascular health effects in exposed humans and wildlife," he said. Director NIT also appreciated the role of Dr. MA Shah for organising such informative events for the students of the country and stated that there is a major role of students in contributing towards the environment.

While appreciating organizers, Registrar NIT Prof. Kaiser Bukhari in his message said the primary aim of this lecture was that students would be updated with environmental causes and NIT Srinagar will be hosting such lectures in future also.

HOD Physics, Prof P A Ganaie, while conveying his message that we need to join hands to save the environment and



thanked Prof Shah for making the Department vibrant to speak on noble issues.

While addressing the virtual workshop, Dr. Shah said the workshop is intended to raise awareness among general people, students and academicians in India on the historical and present aspects of mercury use and pollution.

Dr. Shah said there is need of awareness about mercury as one of the major pollutant and there is need to join hands to make its minimum use and suggested that students need to find its alternative.

He admitted that in one of the recent events on Environmental day, this pollutant (Hg) was not discussed because of innocence.

In his keynote speech, Dr. Qureshi talked about historical use of mercury, its bioaccumulation, and how humans are exposed to it. He also gave an introduction about the Minamata Convention on mercury in which around 250 countries have signed the agreement.

He said medical effects that mercury can have on human bodies including

neurological disorders, organ failures, and cardiovascular disorders.

"The natural paths of contaminations like volcanos and forest fires and the man-made paths of contaminations like coal fired power plants, metals smelting, iron and steel factories, and waste burning," Dr. Qureshi said.

He also talked about mercury cycles in the environment and gave a brief idea about the global emissions of mercury in air, in water, and in soil.

Dr. Qureshi also informed about the countries which have a major role in producing the mercury pollutants.

The event was attended by students across India and other parts of the world and interactive workshop concluded with a question-answer session by the students.

Earlier the author and main speaker Dr. Qureshi was introduced by Durakshian Ashraf Qadri, while vote of thanks was presented by Surbhi Rajpoot and event was hosted by Nikhlesh Kumar Dilwaliya M.Sc. Physics, final year M Sc Physics student, NIT Srinagar.

NEWS

JAMMU, THURSDAY, 14, OCTOBER, 2021

8

Director CQRC, Canada delivers second talk of "Beyond Classroom Lecture series" at NIT Srinagar

Prof. Sehgal appreciates HOD Physics Dr Shah for multiple initiatives in the department

NIN NEWS SERVICE
SRINAGAR, OCT 13

In continuation to the "Beyond Classroom Lecture Series" by the Department of Physics, National Institute of Technology (NIT) Srinagar, Dr. Mir Faizal, Scientific Director, Canadian Quantum Research Centre (CQRC), Canada delivered his talk on the recent trends in theoretical physics on Wednesday.

The long lecture ended with a question-answer session which was mostly carried with new entrants PG students of physics. The lecture series is hosted by the department of physics, NIT Srinagar to expose students to a variety of topics beyond their curriculum and also provide a platform to interact and exchange ideas with the expert, to make them well-rounded individuals.

Director NIT Srinagar Prof. (Dr.) Rakesh Sehgal lauded the role of the Department for such initiatives and assured to extend all support to carry it throughout the semester. "Such lectures will help students to make collaborations abroad and



learn new things from the world-class luminaries," he said.

In his message, Registrar NIT Srinagar Prof. Syed Kaiser Bukhari said that the lecture series will benefit students and help them to explore more options in the field of Physics and beyond.

The scientific talk was attended by the research scholars, postgraduate students besides a number of students from adjoining institutions, including the faculty of the department. Dr Faizal talked about the recent scientific developments across the globe in sciences and encouraged the students to excel in the field and seek opportunities at higher

levels. "Graphene is a wonderful two-dimensional material that needs to be explored further," he said.

The speaker thanked the department of physics for the invitation and acclaimed Dr. MA Shah for his efforts in bringing excellence in the teaching and research activities in the department.

Dr. P A Ganaie, an eminent theoretician, presided over the guest lecture, whereas Dr Vijay Kumar coordinated the programme.

Subsequent to the scientific talk, Director Prof. Sehgal made an exemplary visit to all the physics department laboratories along with faculty members and had

firsthand knowledge of all experiments.

Appreciating the rule for establishing the state of art laboratories and expect that the laboratories shall be made open for the college and university students of the region.

During his brief interaction with the new entrants and 3rd Semester of postgraduate students who raised their genuine demands were assured that all possible help can be extended.

Minor issues related to contingencies of the project students and other related matters shall be addressed on priorities. The second session was attended by research scholars and apprised the director

regarding their pending issues.

In a coincidence, Prof. V K Jain from Gujrat University also spoke on the occasion and gave a detailed initiative of Gujrat University and the department of Chemistry. Dr. Shah in his brief address in joint session assured that with the kind support of the Hon'ble Director, Registrar, Faculty, Staff and Students, the department will have a unique place in the country and beyond.

Ms Surbhi Rajpoot, Ms Tanzella and Ms Darkshan who worked tirelessly for the successful NBL-2021 event were also facilitated by the Director and Prof V K Jain. Dr. Shah HoD Physics who gave a brief outline about the department made sincere thanks to the Director for his support, visit and words of wisdom.

Shah also apprised that the batch 2021 of MSc Physics are of intellectual calibre they need to be given soft skills and polishing. The event was coordinated Dr. Vijay Kumar and a vote of thanks was given by Prof. Rubab.

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 Nigeen 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 to plant more trees. The administration has already directed range officers to plant more at empty, open places in their respective districts, he said.

"After planning 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 Alumni 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 greenhouses 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 saplings 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 world. It will sustain human life not only for us but also for future generations," Shah added.

Chairman NLCO, Manzoor Ahmad Wangnoo 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 Nigeen 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 (PSAJK) G.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 Harmain, Prof. NA Shiekh, Prof. M Ikram, and Mr. Khurshid.

Dr Sajad Principal SSM Miss Safena, Mr. Shakur, Er Naqshbandi, 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. Neelu Gera (IFS)-Director), (Sh. Hafiz Ullah Mir, SFS, DCF) - Regional Director-Kashmir), Sh. D.P Singh, Mass Media Officer- Kashmir, Mr. Mir Iqbal Zahoob-Environmental Forester shall be put on record by the NIT & we expect the same cooperation in future also, he said.

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

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

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

Rs 2.67 crore grant under DST-FIST for NIT

Funds aimed to acquire state-of-art equipment, setting up of laboratories for conducting research: Prof. Sehgal

SRINAGAR: Two departments of the National Institute of Technology (NIT) Srinagar have been selected for financial support of Rs 2.67 crores under 'Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program 2021' by the Department of Science and Technology (DST).

Under the project, the Department of Physics will get Rs 1.65 crores for Level 1 while the Department of Mechanical Engineering under Level 2 will also get Rs 1.2 crores funds under FIST for building and improving infrastructure in the campus. The duration of support will be for a period of up to 5 years.

Director NIT Srinagar, Prof. (Dr.) Sehgal said the two departments have been selected for a financial grant under the FIST program calling it a proud movement for the institute.

"The funds are aimed at acquiring state-of-the-art equipment and setting up of laboratories for conducting internationally recognized research," he said.



The director extended greetings to Prof. MF Wani from the Department of Mechanical Engineering and Dr. Vijay Kumar from the Department of Physics for their hard work for the proposals. He said both the departments defended their proposals positively.

Prof. Sehgal said Prof. Wani and Dr. Kumar submitted the projects and they are also the principal investigators for the FIST Projects from their respective departments.

The director said that the amount will be utilized to strengthen the academic and physical infrastructure of departments for achieving excellence in teaching, training at the institute.

He said it is the second time that the Department of Mechanical Engineering has been selected for the FIST grant.

Institute's Registrar, Prof. Syed Kaiser Bukhari congratulated both Department of Mechanical Engineering and Physics departments for being selected under the FIST grant under the DST program.

He said the FIST project will give a boost to ongoing research projects in the Department of Mechanical Engineering and Physics and will also provide excellent placement opportunities for the students.

"Students will get the opportunity to execute real-life projects in the emerging areas of technology," Prof. Bukhari said.

He also congratulated Prof. Wani and Dr. Kumar for their marvelous achievements in making the NIT Srinagar administration proud.

He said this grant support is recommended by DST, New Delhi based on the excellent research and academic performance of the faculty members of these depart-

ments.

Prof. Bukhari said the grant will benefit the institute immensely with the up-gradation of infrastructure and facilities and will encourage initiating start-ups in this novel area.

In his message Prof. Nazir Ahmad Sheikh, Head MED congratulated the whole institute including the faculty members and said the grant will boost academics and research.

He also said that such grants are very important to push the institute's development to the next level and added that NIT Srinagar has been taking a lead role in this regard.

Dr. M A Shah, Head Physics, congratulated all department stakeholders and stated that the hard work and dedication put forth by faculty members of the Department of Physics faculty members is noteworthy.

He said the Physics department is trying its best for the development of the department and institute and also contributing significantly to teaching and research.

3-day workshop on 'Scientists as film makers and science communication concludes at NIT Srinagar

Utilizing film as a media to communicate science can be a powerful way to reach out mass audience: Director



SRINAGAR: A three day workshop titled as "Scientists as Film makers and Science Communication" organized by PG Department of Physics, National Institute of Technology (NIT) Srinagar concluded on Wednesday.

The event was presided over by Director NIT Srinagar, Prof. (Dr) Rakesh Sehgal and he was chief guest for valedictory section.

In his key address, Prof Sehgal said the primary objective of the workshop was promotion of Science Communication skills among the students and its importance in context with modern research.

"Narrating stories through visual is important medium of communication and youth should come forward to take the lead the subject.

Prof. Sehgal said by making short films they can analyze their skill and enhance their performance of presenting their work. This can boost their confidence to face the big opportunities and makes them fearless about their self consciousness and shine their personality, he said.

In his message, Institute's Registrar Prof. Syed Kaiser Bukhari said science film engages viewers visually and viscerally more so emotionally thereby potentially reach wider audiences.

"Educational film can easily be used as a powerful tool in classrooms around the

world. It is the practice of informing, educating, raising awareness of science-related topics, and increasing the sense of wonder about scientific discoveries and arguments," he said.

Welcoming the guests Dr. M A Shah, Head, PG Department of Physics said that films are most powerful tools for communicating science to the general public.

"This workshop could help to promote a new generation of scientists-as-filmmakers and stimulate other others to design specific programs for training students in science filmmaking, thereby communication and reaching to larger audiences," he said.

Dr. Shah advised the scholars and students of the Department to make film of their work regular phenomena so that new comers could benefit.

Prof S Rubab Coordinator of Programme, gave a brief outlook of the programme in context with New education Policy.

The concluding session was also blessed by Prof Abdul Liman, Dean Students Welfare, Prof Niyaz Ahmad Sheikh, Former HoD Maths, Parents of new entrants to NIT, Expert Mr. Jalaludin and all Physics family.

On the occasion, Independent film maker of Kashmir, Mr. Jalal-ud-din Baba said whether it is newly published scientific research, or one is trying to promote scientific awareness for conservation pur-

poses, choosing short film about the topic is a great way to get involved in outreach and education.

Speaking during the workshop, the resource person Mr. Jalal-ud-din Baba Independent film maker of Kashmir said films should play an active role in the social transformation of any particular region.

He said that the film making is all about a team work where individuals possess different skills and expertise in the field come together.

A formal vote of thanks was delivered by Prof P A Ganaie, who thanked Prof Sehgal, Prof Liman Prof Niyaz for attending the program.

In the inaugural program educationist, Dr Rafiq Masoodi and former Additional Director of AIR Srinagar spoke about his long experience. He advised students that new technologies could reach to public if the work is presented properly.

On the occasion, prominent journalist, Nadim Nazir highlighted the important of films in the education. He said Independent film maker of Kashmir there are many occasions where we have to learn scientific phenomenas.

The event was attended by in charge-Director Prof M F Wani, Registrar, S K Bukhari, Former Dean Academics, Prof Kowsar Majid Former Dean R & C, Prof G A Harmain, Dean Alumni, Prof M S Mir,

Associate Dean Prof Masoodi, Executive Engineer Dr. Mohasin, Faculty of Physics Department, few alumni and large gathering of students from Kulgam who were on Unnat Bharat Abhayan Trip to Institute.

During the workshop the research scholars present their research work in the form of the short movies of 5-10 minutes before the participants where they visualize their work easily and preliminary work of film making was carried in Nanotechnology Laboratory.

A formal vote of thanks was delivered by Dr. Harkirat Singh. He expressed his gratitude to the former director Radio Kashmir Mr. Rafiq Masoodi, resource person Mr. Jalal-ud-din, Registrar Prof. Bukhari, and other dignitaries.

Prof. M A Shah, thanked his staff for making the inaugural program of the day successful and preliminary work of film making was carried in Nanotechnology Laboratory.

This event has made students and scholars realize the fact that science is not about being a bookworm, its more fun and creative, if they can approach towards the film making of their work.

Apart the workshop was attended by people of non science background and they found it interesting to communicate and they realized that there is always an upper hand of science in every field of life.

Department of Physics, National Institute of Technology Srinagar

Modified Office Order No. 01 of 2021 on dated: 15th September 2021

S. No.	Assignment/Task/Responsibility	Coordinator/Member	Chairperson/Advisor	E-mail/ Contact	Remarks & Clarification
1	U.G Programmes (B.Tech)	Dr. Vijay Kumar	Prof. S. Rubab	mohdzubair@nitsri.ac.in 888 2629 888	It includes all UG assignments/jobs
2	P.G Programmes (M.Sc.)	Dr. Harkirat Singh	Prof. M A Shah	harkirat@nitsri.net 97970 48025	It includes all PG assignments/jobs
3	Ph.D Programmes	Dr. Mohd. Zubair	Prof. S Rubab	vijaykumar@nitsri.ac.in 600 549 5506	It includes all Doctorial assignments/jobs of RS
4	Time Table In-charge	Dr. Vijay Kumar	Prof. M.A Shah	vijaykumar@nitsri.ac.in 600 549 5506	Mr Tasadaq TA will assist in departmental TT/AA
5	Library (Department & Central)	Dr. Mohd. Zubair	Prof. S. Rubab	mohdzubair@nitsri.ac.in 888 262 9888	It includes subscription of online/offline journal/book
6	Web Page of Physics/ Departmental Information	Dr. Harkirat Singh	Prof. P A Ganaie	harkirat@nitsri.net 97970 48025	Higher authorities are in need of information frequently.
7	Departmental Purchases Committee	Dr. Vijay Kumar Dr. Mohd Zubair Ansari	Prof. M. Ikram	ikram@nitsri.net vijaykumar@nitsri.ac.in	Rules of the Institute apply. No paper should be processed w/r.
9.	Examination In-charge	Dr. Harkirat Singh	Prof. M. Ikram	harkirat@nitsri.net	Record of all kinds of examinations and quick tests
10	Convener - DPGC	Dr. Harkirat Singh	Prof S Rubab	princeganai@nitsri.net 956 6379055	Meetings agenda for the Department to be discussed
11	Convener - SPGC	Dr. Harkirat Singh	Prof. M.A Shah	harkirat@nitsri.net	Meetings agenda for the Department to be discussed
12	Convener - DUGC	Dr. Mohd. Zubair Ansari	Prof. S. Rubab	8882629888/9566379055	Meetings agenda for the Department to be discussed
12	Rajbhasha Unit	Dr. Mohd. Zubair Ansari	Prof. M. Ikram	8882629888/ 87170 00375	Faculty to lean different languages
13	Outreach Programmes	Dr. Vijay Kumar	Prof. M.A Shah	600 549 5506/ 9419018195	It includes all- Mr Tasadaq will keep list and maintain register
14	UG/PG/CW Curriculum Development	Dr. Harkirat Singh	Prof. M.A Shah	97970 48025 / 9419018195	2022- Curriculum Review & after every three years
15	Grievance Committee	Prof. Seemin Rubab	Dr. P. A. Ganaie	70060 30161	Settle if failed report to HoD.

Note: All previous orders stand cancelled henceforth and above order remain valid up to next order.

(Prof. M.A Shah)

HOD Physics

My Pursuits for the Department

*“Where work was worship and Justice was Religion
Where sub-Priests are priceless and worshipers are perspicacious”*

A year in phrontistery taught many exciting lessons of life, some forgettable, some remembered and few yet to understand. Completing one year as head priest on 30th August 2022, met good deal of challenges both within and outside the boundaries of the sanctuary but the guiding principles outlined on the very first day was never ever comprised. During these golden days with Prof Sehgal, I learned, I lost, I fired people with pens (when patience crossed limits), I scared with postings (when they try to become smart), I smiled, I forget, will not go into details of my year’s experiences (with three major failures) but will put on record that the commitment, devotion and an obligation to my fundamental values of life- **Righteousness, Responsibility, Accountability, Confidence, Courage, Compassion, Patience, Wisdom, Simplicity, Obedience and self-discipline** remained intact, even in adversity. It will remain unbroken for the rest of the life, I promise but I am afraid, oh my lords, it will take your decades to realize the simple soul surrounding you. These values should be dear to heart particularly to head teachers, heads of the institutions, heads of the states and people at the helm of affairs anywhere in any organisation irrespective of region, religion and race. **Keep them close, remember they will shelter you as and when you will be summoned by life.**

Swami Vivekananda, rightly said, If you are not pure and you know all the sciences of the world. That will not help you at all, you may be buried in all the books you read but that will not be of much use. It is the heart that reaches the goal. Follow the heart, follow it seriously. A pure heart (like of Dr M J Zarabi, our Hon’ble Chairman) sees beyond the intellect, it gets inspired. The teacher who loves the children from his/her heart is the real nation builder who can lay the solid foundation of a nation committed to the growth and development for the prosperity of humanity. Dr. Sarvapalli Radhakrishnan, whose day shall be celebrated on 5th of September used to give the following advice to teachers, “we must be perpetual seekers of intellectual integrity and universal compassion”. These are the two qualities which mark-out a true teacher. Such teachers teach the students the process of learning and enable them to become lifelong learners and teach them to contineously practice this trait.

Oh dear comrades, be role models, control over desire, control the senses, leave decorating your dream houses and mitigate yourself with new techniques of teaching and learning, before entering into class room. I am blessed by great teachers, right from school days, blessed to have association with noble souls. Teaching is a daunting task and when it is well done, it is the most satisfying task and rewarding too. Shaping the character of the young and impressionable minds through words and deeds should be accorded the highest priority. Children learn to be kind and compassionate if the teachers are kind and compassionate. Teachers should have the ability to stimulate curiosity, open up opportunities for dialogue in the class room and encourage the children to discover, think and express. They should link class room learning with the learner’s lives, right from 6th class.

A good human being, a communicator, an instructor and institution builder - all rolled into one is needed to start NEP 2020, besides Government need to improve infrastructure, with a verse of Iqbal.

sikh lai farishton ko aadam ki tadap us ne

aadam ko sikhata hai adab-e-khudavandi

Dr. M A Shah

Prof & Head
PG Department of Physics