



“Nanotechnology for Better Living”

Session-1 (Pre-Conference)

NBL Convention From 7-11 September 2021 in Hybrid Mode (Common Hall)

Day 1- Tuesday,

7 September 2021

(Tutorials + Inauguration)

Over all I/C: **Prof. B A Mir/Prof S Rubab**

Time: 8.30 AM

Students Coordinator: **Ms. Sanna Showkat/ Miss. Irfana/Nowsheena/ Aanisa**

Chairperson: **Prof. N A Sheikh (HoD Mechanical)/ Prof. M S Mir (Dean Alumni)**

	(Registration Team Headed by: Dr. Hamida and Dr. Mehraj-u-din): Supported by Mr. Nikhilesh/ Mr. Aalim/ Mr. Reyaz/ Miss. Irfana		
Session S1	Conference Delegates+ Students+ other invited guests:		I/C Dr. Vijay Kumar and Dr Mohd. Zubair
	FORMAL INAUGURATION OF TUTORIALS		
	Time	Name & Affiliation	Title of the talk
T-1	09.00am to 9.45am On-Line	Professor Meyya Meyyappan Ex-Chief NASA Lab	Printed and Flexible Electronics.
T-2	09.45am to 10:20am On-Line	Professor Nguyễn T. K. Thanh FRSC FInstP FIMMM FRSB, Chair in Nanomaterials, UCL London	Nanomaterials from Bench to Bedside / video
T-3	10:20am- 11:10am	Shri Khurshid Ahmad Ganai (IAS) Former Adviser to Hon'ble Governor	Global warming and Climate Change
T-4	11.10am -11.30 am	Dr. Saifullah Lone (Scientist-D) Department of Chemistry, NIT Srinagar	Relation of Nanotechnology with Good Life
T-45	11.30am -11.45 am	Prof. Seemin Rubab Dept. Physics, NIT Srinagar	Bright Career Opportunities in Nanotechnology in Research and Industry
INAUGURATION CEREMONY OF ICNBL-21 From: 12:00 PM - 1.00 PM			
Lunch/ Interaction/ Group Photo			Dr. Harkirat Singh



“Nanotechnology for Better Living”



Session-2 (Inauguration)

NBL-2021 Convention From 7-11 September 2021 in Hybrid Mode

Programme of NBL 21 Inauguration in Common Hall NIT Srinagar from 12.00 PM to 1 PM on 7th Sept., 21

Day 1- Tuesday, 7 September 2021

Over all I/C: Prof M. Ikram/ Dr P A Ganaie

Students Coordinator: Ms. Sanna Showkat/ Miss. Irfana/Nowsheena/ Aanisa

	(Registration Team Headed by: Dr. Hamida and Dr. Mehraj-u-din)		
Session	Conference Delegates+ Faculty+ Students+ other invited guests: I/C Dr. Vijay Kumar and Dr Mohd Zubair		
	Time	INAUGURATION CEREMONY OF ICNBL-21 From: 12:00 PM - 1.00 PM	
Arrival of Guests in Common Hall			
Felicitations of Guests by Prof S Rubab and Dr. P A Ganaie			
S-1	12:05 pm to 12:10pm	Glimpses of ICNBL-2021 Journey and Importance of NBL for Region	Dr. M A Shah, Convener / HOD Physics
S-2	12:10pm to 12.15pm	Opening Address of NBL- 2021	Prof. G A Harmain, Dean R & C, NIT Srinagar
S-3	12:15pm to 12:25pm	Formal Welcome Address to the Hon'ble Minister and Esteemed Guests of NBL 21	Prof. Rakesh Sehgal, Director NIT Srinagar
S-4	12:25pm to 12:35pm	Address by Guest of Honour	Prof. Anil Sahasrabudhe Chairman AICTE , New Delhi
S-5	12:35pm to 12:55pm	Address by Chief Guest: Science and Technologies Initiatives	Dr. Jitendra Singh Hon'ble Union Minister of State (Independent Charge) in Ministry of Science & Technology and Earth Sciences, Minister of State in Prime Minister's Office, New Delhi
S-6	12:55pm to 01:00pm	Vote of Thanks by Registrar	Prof. S K Bukhari, Registrar NIT Srinagar
GROUP PHOTO FOLLOWED BY LUNCH			Brief Interaction with Faculty and Students-I/C Dr. Harkirat S

CONCLUSION OF INAUGURAL FUNCTION AT 2.30PM



“Nanotechnology for Better Living”



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Special Session -3 (For Women)

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 1- Tuesday, 7 September 2021

Over all I/C: **Dr. Zamrooda (Former HOD Maths)**

Students Coordinator: **Nazima/Farah Shah**

Chairperson: **Prof. S Rubab/ Prof. Seema Singh**

	Time	Name & Affiliation	Title of the talk
S-1	02.30pm - 02:50pm	Dr. Alka Sharma Department of Chemistry, University of Rajasthan	Innovative nanomaterials for sustainable environment
S-2	02.50pm - 03:05pm	Dr. Nasheeman Ashraf IIIM, Sanat Nagar, Srinagar	Functional characterization of CsBGlu12, a β -glucosidase from <i>Crocus sativus</i> provides insights into its role in abiotic stress through accumulation of antioxidant flavonols
S-3	03.05pm - 03:20pm	Dr. Irfana Zahoor Jaipur National University	Biogenic synthesis of silver nanoparticles using <i>Viburnum nervosum</i> leaf extract: a viable approach for cancer therapeutics
S-4	03.20pm - 03:35pm	Dr. Ashima Shah University of Kashmir	B-glucan nanoparticles as a carrier for bioactives.
S-5	03.35pm - 03:50pm	Miss. Shomaila Khanam BIT, Jharkhand	Plasmonic metal-semiconductor nanostructure for hydrogen evolution and dye water treatment
S-6	03.50pm - 04:00pm	Miss. Farah Naqash IUST Awantipora.	Delivery of polyphenols mediated through nanoemulsions for increased stability and bioavailability
S-7	04.00pm - 04:10pm	Dr. Iqra Reyaz Hamdani IIT Delhi	p-Cu ₂ O nanowires based photocathodes for efficient current density towards solar- water splitting
S-8	04.10pm - 04:20pm	Miss. Shemilah Fayaz Department of Food Technology, IUST	Biodegradable polymers in food packaging - A review
S-9	04.20pm - 04:35pm	Dr. Seema Singh Department of Botony, KU	Future perspectives of nanotechnology in pants conservation.
S-10	04:35pm-04.55pm	Professor Nguyễn T. K. Thanh FRSC FInstP FIMMM FRSB, Chair in Nanomaterials,	Synthesis and biofunctionalization of plasmonic and magnetic nanoparticles for biomedical application
S-11	04:55pm-05.10pm	Miss. Meenakshi Super 30, Delhi.	Memorial Lecture on Shri Shahi.
S-12	05:10pm-05.25pm	Dr. Bharti Gupta Central University of Jammu	Relevance of immoation in Science and Technology
		Concluding Remakes by chairpersons & written report	Certificate Distribution I/C:



“Nanotechnology for Better Living”



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Special Session -4 (For Memorial Lecture)

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 2- Wednesday,

8 September 2021

Over all I/C: **Dr. Harkirat Singh**

Students Coordinator: **Showket A Mir/ Dr. Aarif-ul-Islam**

Chairperson: **Dr. G A Harmain (Dean Research)/ Shri. Sanjeev Rana**

	Time (am)	Title of the talk	Name	Affiliation
S-1	09:30 - 09:45	Efficient thermoelectric for home appliances waste heat conversion to electrical energy	Prof Dinesh Pandya (Prof K L Chopra Sb Memorial Lecture)	Departments of Materials Engineering and Physics, Indian Institute of Technology Jammu,
S-2	09:46 - 10:00	Insights from nanotechnology in combating covid-19 and applications in regenerative medicine	Dr. Tariq Maqbool	Nanotechnology Center, Kashmir University
S-3	10:01 - 10:15	Importance and use of nanomaterials against different aphids for their management	Dr. Barkat Hussian	SKUAST, Shalimar Kashmir
S-4	10:16 - 10:30	Gallium Nitride based Buried Oxide Current Aperture Vertical Electron Transistor (B-CAVET)	Prof S. A. Lone	Professor VLSI and Nanoelectronics, ECE, Jamia Millia Islamia, New Delhi
S-5	10:31 - 10:45	Plant mediated sulphur nanoparticles and their efficacy evaluated against fruit rot of chilli (Colletotrichum)	Dr. Tariq A. Sofi	SKUAST-Shalimar Kashmir.
S-6	10:46 - 11:00	Effect of ultrasonication on physico-chemical and rheological properties of soy yoghurt	Dr. Hilal Ahmad Punoo	University of Kashmir Hazratbal Srinagar
S-7	11.00 - 11.15	Chemistry of atomically precise noble metal nanoclusters	Dr. Wakeel A. Dar	Department of Chemistry, IIT Madras
S-8	11:15 - 11:30	Nanoscience: Jammu and kashmir perspective and a way forward	Dr. Sanjeev Rana	School of Biotechnology, Shri Mata Vaishno Devi University, Kakriyal
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Oral Session -5

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 2- Wednesday,

8 September 2021

Over all I/C: **Dr. Harkirat Singh**

Students Coordinator: **Mr. Gowhar H. Rahter/Dr. Mudasir Mir**

Chairperson: **Dr. Gausia Qazi/ Dr. Tabassum (Former HoD Chemistry)**

	Time (pm)	Title of the talk	Name	Affiliation
NBL21-OL-001	11:50 - 12:00	IoT based indoor pollutant controller	Akshit Kumar	Dept. of ECE, Model Institute of Engineering and Technology Kot Bhalwal, Jammu, 181122
NBL21-OL-002	12:01 - 12:10	Dietary nano zinc oxide (ZnO) and vitamin E supplementation helps to alleviate cold stress in broiler chickens	Peerzada Tajamul Mumtaz	Division of Veterinary Biochemistry, Faculty of Veterinary Sciences and Animal Husbandry, SKUAST Kashmir, India -19006.
NBL21-OL-003	12:11 - 12:20	Enhancement of thermal and ion exchange properties of bio-nanocomposite with substantial photocatalytic behavior	Jahangir Ahmad War	Department of Chemistry, National Institute of Technology, Srinagar-190006
NBL21-OL-016	12:21 - 12:30	In vitro evaluation of antibacterial activity of copper nano particles on pure culture of Staphylococcus aureus	Amatul Muhee	Faculty of Veterinary Sciences and Animal Husbandry, Srinagar,
NBL21-OL-099	12:31 - 12:40	Structural, morphological and dielectric studies of rare-earth (RE=Ce, Sm, Eu, Dy, and Ho) substituted YMnO ₃ pervoskite	Dr. Mir Hashim Rasool	Dept. of Physics, IUST, J&K.
NBL21-OL-019	12:41 - 12:50	Designing cellulose based functional materials for applications in energy and health care	Sourav Sen	Institute of Nano Science and Technology, Sector-81, Manauli, Mohali, Punjab-140306.
NBL21-OL-022	12:51 - 01:00	Nutraceutical preparation through nano-food delivery system	Anam Aijaz	Food Science and Technology, SKUAST-Shalimar Srinagar
NBL21-OL-023	01:01 - 01:10	Efficacy evaluation of different waterproofing compounds in concrete	Parah Salsabeel Jalal	Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj(U.P.).
NBL21-OL-011	01:11 - 01:20	Immune modulating and anti viral properties of mushrooms and the control of covid -19	Mohd. Manzoor ul Haq	Research Scholar Department of Microbiology Gulbarga university
NBL21-OL-015	01:21 - 01:30	Evaluation of cell line toxicity of copper nanoparticles for intramammary treatment of mastitis in rat mastitis model	Reyaz Ahmad Bhat	Division of Veterinary Medicine, Faculty of Veterinary Sciences and Animal Husbandry, Srinagar, Jammu and Kashmir, India
On Line Talk of Hon’ble VC		Dzulkifli Abdul Razak, Prof. Emeritus Tan Sri Dato’		2.00 PM on 8 th Sep 21
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



“Nanotechnology for Better Living”

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Poster Session -6a

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 2- Wednesday,

8 September 2021

Over all I/C: **Dr. Harkirat Singh**

Students Coordinator: **Dr. Ashiq Sofi/ Mr. Umar Altaf**

Chairpersons: **Dr. Javaid Ahmad (Former HoD Chemistry)/ Dr. Barkat Hussain Bhat**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-003	03:00 – 04:30	Leveraging nanotechnology for enhancement of oral bioavailability: Design and characterization of solid lipid nanocarrier system for artemether	Divya Chauhan	Pharmaceutics and Pharmacokinetics Division, CSIR - Central Drug Research Institute, Lucknow 226001, Uttar Pradesh, India.
NBL21-PO-005	03:00 – 04:30	Comparative study of chemically and biologically synthesized silver nanoparticles on seed germination assay	Megha Biware	Post-graduate and Research Centre, Department of Chemistry, MES Abasaheb Garware College, Pune, India.
NBL21-PO-007	03:00 – 04:30	A novel study on the synthesis of metalloresin through non-conventional approach to explore its flame retardancy	Iram Fayaz	Department of Chemistry, University of Kashmir, Srinagar, India
NBL21-PO-009	03:00 – 04:30	A review on emerging use of nanoparticles in anthelmintics	Ishrat Ara	Department of Zoology, University of Kashmir Srinagar-190006, India
NBL21-PO-011	03:00 – 04:30	Impact of vehicular pollution on edaphic features along tangmarg- magam road, kashmir valley	Jallal ud-din Najar	Uttaranchal College of Science and Technology
NBL21-PO-012	03:00 – 04:30	Effect of nanoclay on barrier and mechanical properties of chitosan based films	Aiman Zehra	Division of Food Scienc and Technology, SKUAST-K Shalimar J&K.
NBL21-PO-013	03:00 – 04:30	Efficacy of banana peel as unexplored source of antioxidants in meat based products: a review	Shubli Bashir	Division of Food Science and Technology, Faculty of Horticulture, SKUAST-K-190025
NBL21-PO-014	03:00 – 04:30	Nutritional analysis (fatty acid profile) in cereal food products using GCMS/FID	Taha Mukhtar	Division of Food Science and Technology, SKAUST-K-190025
NBL21-PO-017	03:00 – 04:30	Chitosan-gelatin nanocomposite matrix for biomedical applications	Sheril Ann Mathew	Department of Nuclear Physics, University of Madras, Chennai 600025, I
NBL21-PO-020	03:00 – 04:30	Prospects of using dendrimers as nano-delivery vehicle for beta-carotene, safety and security	Nusrat Jan	Division of Food science and Technology, SKUAST-Kashmir, 190025 (J&K), India
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



“Nanotechnology for Better Living”

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Poster Session -6b

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 2- Wednesday,

8 September 2021

Over all I/C: **Dr. Harkirat Singh**

Students Coordinator: **Dr. Farooq A. Dar/ Mr. Reyaz A. Shergojri**

Chairpersons: **Dr. Atik-U-Rahman/Dr. Shahnaz Majid**

(Registration Team Headed by: Dr. _____ and Dr. _____) / Supported by Mr. Nikhilesh/Mr. Jaffar				
ID	Time	Title of the talk	Name	Affiliation
NBL21-PO-021	03:00 – 04:30	Trends in dielectric and ferroelectric properties of rare earth doped barium titanate: A review	Saima Jahan	Department of Physics, Central University of Kashmir, -Ganderbal, 190015(J&K), India.
NBL21-PO-022	03:00 – 04:30	Synthesis of iron oxide from scrap iron thereby harnessing its potential in environment remediation	Arushi Arora	Institute of Nano Science and Technology, Knowledge City, Sec-81, Mohali, 140306, Punjab, India
NBL21-PO-028	03:00 – 04:30	A review on structural and experimental dielectric properties of $\text{Nd}_2\text{NiMnO}_6$ and its first principal study of dielectric properties	Shohaib Abass	Department of Physics, Central University of Kashmir, Tulmulla Campus, Ganderbal, 191131.
NBL21-PO-029	03:00 – 04:30	Dielectric and refraction trends in $\text{La}_2\text{NiMnO}_6$ double perovskite substitutionally doped by gadolinium: a first principle study	Feroz A. Najar	Department of Physics, Central University of Kashmir, Tullmullah-Ganderbal, 190015(J&K), India
NBL21-PO-030	03:00 – 04:30	Microbiological and physiochemical evaluation of various skim milk and whole milk powders in kashmir valley	Snober Irshad	1Division of Livestock Products Technology, Faculty of veterinary Sciences and Animal Husbandry, SKUAST-K
NBL21-PO-031	03:00 – 04:30	Nanotechnology in agriculture: A future technology for sustainable agriculture.	Bushra Bashir	Division of Food Science and Technology SKUAST-K
NBL21-PO-125	03:00 – 04:30	Comparative studies of Ba and Sr doped bulk $\text{La}_2\text{NiMnO}_6$ double perovskites and their temperature dependent dielectric response	Shah Aarif Ul Islam	Department of Physics, National Institute of Technology Srinagar, 190006, J&K, India.
NBL21-PO-126	03:00 – 04:30	Biopolymer based packaging materials: A review	Sadaf Dur	Department of Food Technology, IUST, Awantipora, 192122, J&K, India.
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Poster Session -6c

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 2- Wednesday,

8 September 2021

Over all I/C: **Dr. Harkirat Singh**

Students Coordinator: **Mr. Irfan Ayoub/ Dr. Kaleem**

Chairpersons: **Dr. Tariq Sofi/Dr. Vishal Choudhary**

(Registration Team Headed by: Dr. _____ and Dr. _____) / Supported by Mr. Nikhilesh/Mr. Jaffar				
ID	Time	Title of the talk	Name	Affiliation
NBL21-PO-114	03:00 – 04:30	Investigation of response and recovery time of humidity sensor based on nanopores anodic alumina.	Mudassir A. Mir	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-115	03:00 – 04:30	Microwave workstation used to synthesize spherical nanoparticles of iron oxide (Fe_2O_3) and its applications in plant tissue culture	Sabreena Jan	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-116	03:00 – 04:30	In vitro and in vivo MRI imaging and photothermal therapeutic properties of hematite ($\alpha-Fe_2O_3$) nanorods	Aanisa, Nowsheena	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-117	03:00 – 04:30	Optical study of pure copper oxide (CuO) nanoparticles	Shabnam, Shafiq	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-136	03:00 – 04:30	Rapid detection of SARS COV2 RNA using graphene based electrochemical biosensors.	Surbhi Rajpoot	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-122	03:00 – 04:30	Nanotechnology and it’s utilisation in the healthcare industry	Zubaid ul khazir Rather	Department of Chemical Engineering, National Institute of Technology Srinagar
NBL21-PO-123	03:00 – 04:30	Transport of dirac like particles through graphene	Showkat Ahmad Mir	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-124	03:00 – 04:30	In vitro anticancer activity of chalcone derivative of 4-hydroxy coumarin	Zubaid ul khazir Rather	Department of Chemical Engineering, National Institute of Technology Srinagar
NBL21-PO-142	03:00 – 04:30	Metal matrix composites reinforced by nano-particles.	Ubaid manzoor	Metallurgical and Materials Engineering Department, Indian Institute Of Technology Roorkee.
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 3- Thursday,

9 September 2021

Speaker Session -7 (Innovation Session)

Over all I/C: **Dr. Vijay Kumar**

Students Coordinator: **Mr. Abdul Mateen/Dr. Shabir A. Akhoo**

Chairpersons: **Prof. B. A. Mir / Dr. Tariq Maqbool**

	Time (am)	Title of the talk	Name	Affiliation
S-1	09:30 - 09:45	Pharmaceutical nano formulations for anti-malarials and herbal bio-actives: Endeavors for enhancing systemic exposure and optimizing therapeutic outcome.	Dr. Wahajuddin	CSIR, CSIR-Central Drug Research Institute, Lucknow.
S-2	09:46 - 10:00	Carbon nanomaterials based ultra sensitive and real time sensor for health and environment monitoring	Dr. Rakesh Kumar Gupta	University of Manchester/ Higher Education J & K
S-3	10:01 - 10:15	Encapsulation and delivery of bioactive compounds using polysaccharide based micro and nanoparticles	Dr. Adil Gani	Department of Food Science and Technology, University of Kashmir, Srinagar 190006, India
S-4	10:16 - 10:30	Effect of SHI irradiation of Ca doped LaMnO ₃ thin films	Dr. Khalid Sultan	Department of Physics, CUK
S-5	10:31 - 10:45	Mxene-polyaniline nanocomposites based high performance chemo resistors ammonia reduction	Dr. Vishal Chaudhary	Delhi university
S-6	10:46 - 11:00	A simulative analysis for heat transfer enhancement using rectangular wing & winglet type vortex generator in a triangular channel	Dr. Sajad Hussain Din	Principal SSM College of Engineering & Technology, SSM College of Engineering, Baramulla,
S-7	11.00 - 11.15	Generalized harmonic oscillator algebra	Dr Salman Wani	Canadian Quantum Research Center
S-8	11:15 - 11:30	Use of Nanomaterials in Spectroscopic Analysis	Dr. Jignesh kumar V. Rohit	Dept. of Chemistry, NIT, Srinagar
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Oral Session -8

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 3- Thursday,

9 September 2021

Over all I/C: **Dr. Vijay Kumar**

Students Coordinator: **Mr. Aalim/Mr. Nissar Hussain**

Chairpersons: **Dr. M A Rather/Dr. Adil Gani**

	Time (pm)	Title of the talk	Name	Affiliation
NBL21-OL-025	11:30 - 11:40	Use of nanomaterial- an attempt to reduce carbon footprint of highway constructions	Ambikesh Singh	Assistant Quality cum Material Expert, SA Infrastructure Consultants Pvt. Ltd.
NBL21-OL-026	11:41 - 11:50	CdSe QDs as an antifungal and bioimaging probe	Irshad A Mir	School of physical sciences, JNU
NBL21-OL-027	11:51 - 12:00	Bioactive metabolites of medicinal plants in cancer prevention and treatment: a review	Umer Majeed Khaja	Department of Zoology/ School of Bioengineering and Biosciences, Lovely Professional University, Punjab,
NBL21-OL-028	12:01 - 12:10	Use of dandelion (<i>Taraxacum officinale</i>) leaf powder for the development of functional chicken meat loaves	Sadiya Sajad	Division of Livestock Products Technology, Faculty of Veterinary Sciences & Animal Husbandry, SKUAST-K
NBL21-OL-031	12:11 - 12:20	Improved antimicrobial and enhanced osteogenic properties of reduced graphene oxide and hydroxyapatite based cryogels	Vianni Chopra	Institute of Nano Science and Technology Knowledge City, Sector-81, SAS Nagar, Mohali-140306, Punjab
NBL21-OL-032	12:21 - 12:30	disentangle temperature and dielectric environment dependent electron-phonon coupling in plasmonic gold nanoparticles embedded in glassy films	Nandan Ghorai	Institute of Nano Science and Technology, Knowledge City, Sector 81, SAS Nagar, Mohali, Punjab-140306, In
NBL21-OL-033	12:31 - 12:40	Green synthesis, characterization and antimycotic activities of silver nanoparticles (AgNPs) from basidiomycetous mushroom	John Mohd War	Plant Pathology and Mycology, Department of Botany, University of Kashmir, Srinagar 190006.
NBL21-OL-034	12:41 - 12:50	Non-linearities in long-haul optical communication and its mitigate	Zahid G Khaki	Department of ECE, NIT, Srinagar,
NBL21-OL-098	12:51 - 01:00	Electrospun Nanofiber Mats as “Smart Surfaces” for Desorption Electropray Ionization Mass Spectroscopy (DESI)	Dr. M.Azharuddin Ganai	IIT Madras
NBL21-OL-040	01:01 - 01:10	Plasmonic metal-semiconductor nanostructure for hydrogen evolution and dye water treatment	Shomaila Khanam	Physics Departement, BIT Mesra, Ranchi, Jharkhand,
NBL21-OL-042	01:11 - 01:20	Organometal halide perovskite solar cells: a review of fundamental concepts, opportunities and challenges	Romana Yousuf	Department of Electronics & Communication Engineering, NIT Srinagar, 190006 (J&K), India
NBL21-OL-043	01:21 - 01:30	Low temperature reduction with tuned electrical conductance of porous graphene oxide film: Correlating electrical conductance	T. Anusuya	Department of Physics, Indian Institute of Information Technology, Design and Manufacturing Chennai– 600
NBL21-PO-036	01:31 - 01:40	Changes in pyruvic acid, quercetin, physicochemical properties and microbiological stability of brown spanish onion (<i>Allium cepa</i> , l) paste during different thermal treatment combinations	Saadiya	Research Scholar, Department of Food technology, SKUAST-K
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Poster Session -9a

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 3- Thursday,

9 September 2021

Over all I/C: **Dr. Vijay Kumar**

Students Coordinator: **Mr. Junaid Rather/Mr. Anil**

Chairpersons: **Dr. M S Charoo/Dr. Tanvir**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-037	03:00 – 04:30	A study on synthesis of thermo-responsive poly (n-isopropylacrylamide) - ZnO hybrid hydrogel through non-conventional approach to explore its thermo-mechanical properties and other appl.	Shafia Lateef	Department of Chemistry, University of Kashmir Srinagar (J&K) India 190006.
NBL21-PO-047	03:00 – 04:30	Nanoparticle based drugs in reversing multiple drug resistance in cancer	Suhail Ahmad Mir	Departemnt of Pharmaceutical Sciences, University of Kashmir, Srinagar, 190006
NBL21-PO-048	03:00 – 04:30	Applications of nanotechnology in food safety	Mariya Nayeem	Division of Food Science and Technology SKUAST-K.
NBL21-PO-050	03:00 – 04:30	Development and application of nanochitosan based coating for enhancement of shelf life of fresh plum.	Searat Showkat	Division of Food Science and Technology, SKUAST-K.
NBL21-PO-051	03:00 – 04:30	Micronization and it’s role in food processing	Aiman Farooq	Division of Food Science and TechnologySKUAST-K
NBL21-PO-064	03:00 – 04:30	Nanotechnology as a remedy in controlling plant parasitic nematodes: a review	Ishfaq majeed	Department of Zoology University of Kashmir, Srinagar- 190006, Kashmir.
NBL21-OL-038	03:00 – 04:30	Nanotechnology and its application in nutraceuticals	Aafreen Naseer	Division of Food Science and Technology, SKUAST-K
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Poster Session -9b

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 3- Thursday,

9 September 2021

Over all I/C: **Dr. Vijay Kumar**

Students Coordinator: **Mr. Towseef Ahmad/Mr. Showkat A. Bhat**

Chairpersons: **Dr. Ashok Bera/Dr. Hanief**

(Registration Team Headed by: Dr. and Dr.)/ Supported by **Mr. Nikhilesh/Mr. Jaffar**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-052	03:00 – 04:30	Little hinges swing big doors, nanotechnology for the human betterment	Najeebul Tarfeen	Centre of Research for Development (CORD), University of Kashmir Hazratbal, Srinagar
NBL21-PO-053	03:00 – 04:30	Co-targeting epidermal growth factor receptor and PI3K/AKT/mTOR signaling pathways in cancer a novel therapeutic intervention.	Lateef Ahmad Dar	Department of Pharmaceutical Sciences, University of Kashmir, Hazratbal Srinagar, 190006.
NBL21-PO-058	03:00 – 04:30	Nanotechnology and its role in solar energy harvesting	Syed Mubashir Ahmad	Department of Physics, Central University of Kashmir,
NBL21-PO-059	03:00 – 04:30	Green synthesis and characterization of silver nanoparticles using <i>Aspergillus niger</i> and its efficacy against pathogenic	Nusrat Ahmad	Department of Botany, University of Kashmir, Srinagar 190006 J&K, India
NBL21-PO-060	03:00 – 04:30	Photocatalytic integrated production of hydrogen and imines from aromatic amines via Ni-mesoporous carbon nitride: an acceptorless dehydrogenative pathway	Deepak Kumar Chauhan	Advanced Functional Nanomaterials, Energy and Environment Unit, Institute of Nano Science and Technology (INST), Mohali
NBL21-PO-061	03:00 – 04:30	N-enriched metal free heptazine based porous polymeric network as highly efficient catalyst for CO ₂ capture and conversion	Neha Sharma	Advanced Functional Nanomaterials, Energy and Environment Unit, Institute of Nano Science and Technology (INST),
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Poster Session -9c

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 3- Thursday,

9 September 2021

Over all I/C: **Dr. Vijay Kumar**

Students Coordinator: **Miss. Sabreen Jan/Miss. Sebiha Rehman**

Chairpersons: **Dr. S A Sofi/Dr. Khalid Sultan**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-104	03:00 – 04:30	Recent advances in near persistent luminescent nanomaterials for biomedical applications: a review	Umar Mushtaq	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-105	03:00 – 04:30	3D flower like nickel oxide (NiO) nanostructures for gas-sensing application	Reyaz A Shergojri	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-106	03:00 – 04:30	Photoelectrochemical performance of Ti 3+ self-doped TiO ₂ nanotube arrays	Arshid Ahmad	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-107	03:00 – 04:30	Nanotechnology enabled next-generation LED lights: A brief review	Irfan Ayoub	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-108	03:00 – 04:30	Zincoxide based activated carbon nanofiber composites for advanced supercapacitors	Ab. Mateen	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-109	03:00 – 04:30	Recent development of oxyapatite based phosphors in solid-state lighting.	Nisar Hussain rana	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-110	03:00 – 04:30	Micromagnetic study of Fe thin Films	Junaid Rather	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-111	03:00 – 04:30	Antimony doped tin oxide and their effect on structural and optical properties	Tawseef Ahmad	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-112	03:00 – 04:30	Synthesis and characterization Pure Copper Oxide (CuO) Nanoparticles by simple edible Vinegar	Arun Kumar	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-113	03:00 – 04:30	Optical and magnetic properties of Iron oxide nanospheres prepared via hydrothermal route.	Aalim Mushtaq	Department of Physics, National Institute of Technology Srinagar
NBL21-PO-095	03:00 – 04:30	Brief review on the synthesis and properties of pure and doped nickel ferrites	Mudasir Rashid Rather	Department of Physics, Central University of Kashmir, Tulmulla Campus, Ganderbal,
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Speaker Session - 10

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 4- Friday

10 September 2021

Over all I/C: **Dr. Zubair Ansari**

Students Coordinator: **Ms. Nowsheena/Ms. Aanisa**

Chairpersons: **Prof. Dinesh Pandya/Dr. Yashwant Mehta**

	Time (am)	Title of the talk	Name	Affiliation
	09:30 - 09:45	Ab-initio method in many body problems.	Prof. S. Javaid	Former V. Chancellor, Cluster University, presently prof. at University of Kashmir.
	09.46 - 10.00	Nanomaterials in roads and building- A new revolution in civil engineering.	Prof. M. S. Mir	Dept. of Civil Eng., NIT Srinagar
	10.00 - 10:15	Microwave chemistry: Novel route for nanomaterial synthesis	Dr. Shafqat M. Shah	Nanotechnology center, University of Kashmir.
	10:15 - 10:30	Nanostructured liquid delivery systems for controlled delivery of poorly water-soluble bioactive components	Dr. Tawheed Amin	Division of Food Science and Technology, SKUAST-Kashmir Shalimar
	10.30 - 10.45	<i>Mortierella Alpina</i> Cs10e4, an oleaginous fungal endophyte of <i>Crocus sativus</i> L. enhances apocarotenoid biosynthesis and stress tolerance in the host plant	Dr. Zahoor Ahmed Wani	Government Degree College Kishtwar, Kishtwar, 182204, India.
	10:45 - 11.00	Computer vision based portable fruit grading using multiple physical quality parameters.	Dr. Abdul Mueed Hafiz	Dept of E&C Engineering, Institute of Technology, University of Kashmir, Srinagar, J&K-190006, India
	11:01 - 11:15	DNA: it’s exploration by different physical methods	Dr. Feroz A. Mir	Department of Physics, Baba Ghulam Shah Badshah University Rajouri (J&K)-185234
	10:15 - 11:30	Highlights of the Book: Engineering Materials for Stem Cell Regeneration – Springer – Nature	Dr. Faheem Arjamand	Nanotechnology center, University of Kashmir.
	11:30 - 11:45	TITLE	Dr. T. Basu	Amity University, New Delhi.
	11:45 - 12:00	Shape-reconfigurable and recyclable 4D smart plastics	Dr. Kisar Bhat	School of Chemical and Bio-medical Engineering and Hp-NTU Corporate Laboratory, Nanyang Technological University
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Oral Session -11

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 4- Friday

10 September 2021

Over all I/C: **Dr. Zubair Ansari**

Students Coordinator: **Ms. Shabnam/Ms. Shafiq**

Chairpersons: **Dr. Mohammad Mursaleen/ Dr. Rakesh K. Gupta**

	Time (pm)	Title of the talk	Name	Affiliation
NBL21-OL-063	11:51-12:00	Antioxidant potential of Zinc oxide nanostructures prepared by facile green synthesis	Arpita Dey	Department of Ecology & Environmental Sciences, Pondicherry University, Puducherry, India
	12:01-12:10			
NBL21-OL-084	12:11-12:20	Enhancement of evaporation using hierarchical structures in comparison to plane and rough structures in solar distillation	Siva Ram Akkala	Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad
NBL21-OL-085	12:21-12:30	Nanoparticles as antiparasitic agents: A review	Humira Rashid Khan	Department of Zoology, University of Kashmir, Srinagar- 190006, India
NBL21-OL-087	12:31-12:40	Fabrication of electrochemical biosensors for chronic myeloid leukemia detection using different types of carbon nanotubes and comparison of their efficiencies	Payal Gulati	Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi, India
NBL21-OL-088	12:41-12:50	A highly sensitive, label free and non-invasive molecularly imprinted polymer based electrochemical sensor for the detection of Gut microbiota derived trimethylamine N ⁻ oxide	Amit K. Yadav	Special Center for Nanoscience, Jawaharlal Nehru University, New Delhi, India.
NBL21-OL-089	12:51-01:00	Development of reduced graphene oxide-molybdenum trioxide nanocomposite sensor platform for highly sensitive and selective BPA detection: an endocrine disruptor	Damini Verma	Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi, India
NBL21-OL-094	01:01-01:10	Single step oleic-acid assisted solution combustion method for the synthesis of Bi-doped LiMn ₂ O ₄ nanostructures	Rayees Ahmad Khan	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai-600048,
NBL21-OL-095	01:11-01:20	Photoelectrochemical stability response of hydrothermally synthesized iron oxide nanostructures	Jaffar Farooq Mir	Department of Physics, National Institute of Technology Srinagar
NBL21-OL-096	01:21-01:30	Characterization and annealing of graphene	Nikhilesh K. Dilwaliya	Department of Physics, NIT Srinagar
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Session -12a (Poster)

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 4- Friday

10 September 2021

Over all I/C: **Dr. Zubair Ansari**

Students Coordinator: **Mr. Asif A/Mr. Suhail Iqbal**

Chairpersons: **Dr. Sajad Ud Din/Dr. Faheem A. Sheikh**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-065	03:00 – 04:30	Anthelmintic activity of biologically synthesized nanoparticles (NPs) against helminth parasites in livestock: A review	Fayaz Hussain Mir	Department of Zoology, University of Kashmir- 190006
NBL21-PO-066	03:00 – 04:30	Anthelmintic drug resistance in ruminants; Medicinal plants – an alternative novel approach for treatment: A review	Laraibah Hamid	Department of Zoology, University of Kashmir- 190006, Srinagar
NBL21-PO-072	03:00 – 04:30	Data analytics in a converging IoT-fog-cloud architecture and nanotechnology	Kalimullah Lone	Department of Information Technology, NIT Srinagar
NBL21-PO-073	03:00 – 04:30	Visual learning and nanotechnology: State-of-the-art and part in pandemic (COVID-19)	Nadeem Yousuf Khanday	Research Scholar, Department of Information Technology, NIT Srinagar
NBL21-PO-074	03:00 – 04:30	Dual-mode, color-tunable, lanthanide-doped composite nanoparticles for anti-counterfeiting inks	Satish Kumar Samal	Institute of Nano Science and Technology, Knowledge City, Mohali,
NBL21-PO-091	03:00 – 04:30	Synthesis and application of nano-urea on <i>Vigna radiata</i> - An in vitro study	Avimanu Sharma	Department of Environmental Science, Central University of Rajasthan
NBL21-PO-093	03:00 – 04:30	Electrochemical detection of ciprofloxacin using lanthanum oxide nanoparticle as bio sensing platform.	Navneet Chaudhary	Special Centre for Nanoscience, JNU, New Delhi-110067, India
NBL21-PO-097	03:00 – 04:30	Green synthesis and characterization of silver nanoparticles using <i>Aspergillus niger</i> and its efficacy against pathogenic fungi.	Nusrat Ahmad	Section of Mycology and Plant Pathology, Department of Botany, University of Kashmir, Srinagar 190006
NBL21-PO-098	03:00 – 04:30	"Enhancing regenerative approaches using nanotechnology–A review."	Ibtisam Mumtaz	Laboratory of Nano-therapeutics and Regenerative Medicine, Department of Nanotechnology, University of Kashmir
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Session -12b (Poster)

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 4- Friday

10 September 2021

Over all I/C: **Dr. Zubair Ansari**

Students Coordinator: **Mr. Syed Ishtiyak/ Mr. Umar Mushtaq**

Chairpersons: **Dr. Alka Sharma/Dr. Shafqat M Shah**

	Time	Title of the talk	Name	Affiliation
NBL21-PO-094	03:00 – 04:30	Nanotechnology and diabetes	Kaneez Fatima	Kashmir University
NBL21-PO-099	03:00 – 04:30	Microwave-assisted synthesis of titanium oxide nanoparticles and their characterization	Umar	Department of Nanotechnology, University of Kahmir, Srinagar.
NBL21-PO-100	03:00 – 04:30	"Nanotechnology promising tool for nonhealing wounds"	Ifrah Manzoor	Department of Biochemistry, University of Kahmir, Srinagar.
NBL21-PO-101	03:00 – 04:30	Mott conductivity in particulate multiferroic Ba 0.99 Tb 0.02 Ti 0.99 O 3 – CoFe 1.8 Tb 0.2 O 4 composites	Gowher Hamid Rather	Department of Physics, NIT Srinagar
NBL21-PO-102	03:00 – 04:30	Effect of non-factorizable background geometry on thermodynamics of galaxy clusters	Abdul Wakeel Khanday	Department of Physics, NIT Srinagar
NBL21-PO-103	03:00 – 04:30	Optical and electrical properties of tin oxide nano particles	Umar Altaf	Department of Physics, NIT Srinagar
NBL21-PO-134	03:00 – 04:30	Potential use of Solar Energy for Drying: A case study	Sebiha Rehman	Department of Physics, NIT Srinagar
NBL21-PO-135	03:00 – 04:30	Delivery of polyphenols mediated through nanoemulsions for increased stability and bioavailability	Farah Naqash	Department of Food Technology, IUST Awantipora.
NBL21-PO-137	03:00 – 04:30	Solar-light Induced Photocatalytic Degradation of Emerging Contaminants	Aarif Hussain Shah	Department of Chemical Engineering, NIT Srinagar
NBL21-PO-138	03:00 – 04:30	Application of nanomaterials in construction works: A Review.	Gowhar Aziz	Department of Civil Engineering, National Institute of Technology Srinagar, J&K-190006, India.
NBL21-PO-139	03:00 – 04:30	Nanotechnology: Innovations and uses in Food science	Bushra Manzoor	SKAUST-K
NBL21-PO-140	03:00 – 04:30	Photodegradation of Rhodamine B over La,Ce,Dy co-doped ZnO under UV light Irradiation ($\lambda < 380$ nm).	Syed Irtika	NIT Srinagar
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Session -12c (Poster)

NBL Convention From 7-11 September 2021 in Hybrid Mode

Day 4- Friday

10 September 2021

Over all I/C: **Dr. Zubair Ansari**

Students Coordinator: **Dr. Mushtaq Magray/Mr. Arshid**

Chairpersons: **Dr. Nasheeman Ashraf/Dr. Ashima Shah**

(Registration Team Headed by: Dr. _____ and Dr. _____) / Supported by Mr. Nikhilesh/Mr. Jaffar				
	Time	Title of the talk	Name	Affiliation
NBL21-PO-127	03:00 – 04:30	A Study on structural, optical, electrical and dielectric properties of nickel doped PrFeO ₃ perovskite.	Mohd Asif Bhat	Baba Ghulam Shah Badshah University, Rajouri -185234 (J&K)
NBL21-PO-128	03:00 – 04:30	Structural, morphological and electrical studies of polythiophene	Mudasir Hussain Rather	Dept. of Physics, Baba Ghulam Shah Badshah University Rajouri (J&K)
NBL21-PO-129	03:00 – 04:30	A Study on fabrication and characterization of dye sensitized solar cell with <i>Ipomoea purpurea</i> (morning glory flower) as sensitizer.	Peerzada Ajaz Ahmad	Dept. of physics, Baba Ghulam Shah Badshah University, Rajouri (J&K)
NBL21-PO-130	03:00 – 04:30	Nanotechnology and it’s utilisation in the healthcare industry	Muneeb Shabir Qazi	Department of Chemical engineering, N.I.T S
NBL21-PO-131	03:00 – 04:30	Pharmacological significance of synthetic benzothiazole derivatives	Tanzeela Qadir	Department of Chemistry, Lovely Professional University, Phagwara, Punjab,
NBL21-PO-132	03:00 – 04:30	A natural attenuation model of complexation modulated iron redox systems for waste water treatment.	Mustafa Rabbani	Ph.D. Research Scholar, Department of Chemistry, University of Kashmir
NBL21-PO-133	03:00 – 04:30	Studies of magneto-dielectric properties of multiferrioc composites of samarium doped BaTiO ₃ and CoFe ₂ O ₄	Showket ahmad bhat	Department of physics, national Institute of Technology srinagar, srinagar-190006,
NBL21-PO-137	03:00 – 04:30	Synthesis, Characterization And Biological Activity Of Platinum, Gold And Silver Nanoparticles: A Green Approach	Riayz Bashir Wani	A. P. S. University Rewa, M. P.
Concluding Remakes by chairpersons & written report			Certificate Distribution I/C:	



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Session-13 (Valedictory)

Over all I/C: Prof S Rubab/ Prof. Gausia

Day 5- Saturday, 11 September 2021

Qazi

Students Coordinator: Miss Irfana/ Miss Tanzeela/

Time	VALEDICTORY OF ICNBL-21 From: 11:05 AM 1.30 PM	
Arrival and Felicitation of Guests in Common Hall		
11:05 am to 11:10am	Brief Report ICNBL-2021	Dr. M. A Shah, Convener / HOD Physics
11:10am to 11.15am	Welcome Address of NBL- 2021	Dr P A Ganaie, Former HOD, NIT Srinagar
11.15 am to 11. 25am	MoU Between Pairing States J & K and Tamil Nadu : How to Move Forward!	Prof J Kumar, UGC-BSR Faculty Fellow
11.25 am to 11. 35am	Jagadish-Vidya Foundation: A Brief Introduction	Prof. Chennupati Jagadish, Australian National University
11.35 am to 11. 45am	Our Nobel Initiative of Providing Science Platforms for Bright Students of Valley	Prof Kamal K Kar, Chair/ Founder , IIT Kanpur
11.45 am to 11. 55am	National Research Facility, IIT Delhi Special MoU with NIT Srinagar	Prof. Neeraj Kharee, Coordinator NRF, IIT Delhi
11.55 am to 12. 05pm	Forum for International Physics- APS Membership A Brief Appraisal	Prof. S Nahar, The Ohio State University
12.05 pm to 12. 15pm	Special Provisions for NIT Students at M G University Kerala	Prof Sabu Thomas, Hon’ble Vice Chancellor MG University
12.15 pm to 12. 25pm	NBL Convention: How it Started and Flourished In my Tenure	Prof Rajat Gupta, Former Director NIT Srinagar/ NIT Mizoram
12.25 pm to 12. 35pm	MRSI: Local Chapter for J & K	Prof M S Rao, Head MSRC, Department of Physics, IIT Madras
12.35 pm to 12. 45pm	Formal Address	Prof. Rakesh Sehgal, Director NIT Srinagar
12.45 pm to 12. 55pm	Address by Guest of Honour	
12.55 pm to 01. 15pm	Address by Chief Guest:	
01.15 pm to 01. 20pm	Vote of Thanks by Registrar	Prof S K Bukhari, Registrar NIT Srinagar
	GROUP PHOTO FOLLOWED BY LUNCH	Brief Interaction with Faculty and Students-I/C Dr. Harkirat