Name of the event	4th online International conference on science and Engineering of materials (ICSEM 2021)
Date of the event	19-22 July 2021
Location of the event	Online
Sponsoring organization (if Any sponsor)	NA
Event Caption/ Conference Summary / (Brief description) 200 Words MAX.	ICSEM-2021 has brought academicians, scientists, researchers, and students together to exchange and share their experiences and research results on all aspects of Material Science. The research work presented in conference are published in various scopus indexed journals such as High performance polymer, ionics, International journal Applied ceramics technology, optical and quantum electronics, recent innovations in chemical engineering, Materials today proceedings, Macromolecular symposia and Engineered science.
Notes, Highlights & dialogs with representatives, speakers, and exhibitors	ISCEM 2021 has 5 plenary talks, 81 invited talks, 176 oral presentations and participants from 32 countries.
Images/Photos (Selected with Caption) representatives, speakers, and exhibitors	As attached below
Videos (Selected with Video Description) representatives, speakers, and	NA

HOD
Depatment of Physics
School of Basic Sciences & Research
Sharda University, Gr. Noida-201310, India

exhibitors			
Name of the Organizing Department / School	Department	School	
	Department of Physics	School of Basic Sciences & Research	
Convener details	Name	Contact Number	Email ID
	Dr. Munendra Singh and Dr. Mohit Sahni	9990127875, 9971058458	munendra.singh@sharda.ac.in , mohit.sahni@sharda.ac.in
Chief Guest / Guest of Honor	Name	Affiliation	
	PADMA SHRI PROF. VINOD KUMAR SINGH	IIT Kanpur	
Speaker details	**Name of the Speaker**	**Affiliation**	**AREA [Academics/ Industry/ Research Organization/ Others (Please specify)]**
Speaker – 1	Burak Gultekin	Turkey	Light-Assisted Annealing for Perovskite Solar Cells
Speaker – 2	WanZaireenNisa Yahya	MALAYSIA	Eutectic ionic liquid as a potential electrolyte for dye-sensitized solar cells
Speaker – 3	Maria Gavrilescu	ROMANIA	Recycling corrugated board waste as construction material with low environmental impact and cost
Speaker – 4	Prof. Julia A. Baimova	RUSSIA	Hydrostatic Compression Followed By Annealing Applied To Obtain A Graphene-Nickel Composite: Atomistic Simulation

Speaker – 5	Maria Giovanna Buonomenna	ITALY	Nanostructured polymer membranes for advanced gas separation
Speaker – 6	Rameshwar Adhikari	NEPAL	Morphology and Mechanical Properties of Compostable Polymer Composites Based on Copolyester and Natural Fibers
Speaker – 7	MarilouCadatal-Raduba	NEW ZEALAND	Rare earth-doped fluoride glass as fast-response scintillator for neutron detection in nuclear fusion experiments

Type of the Event	(Write 'Yes' where applicable in the respective event column)									
	Conference	Seminar	Workshop	Symposium	Guest Lecture (Invited talk)	FDP/ MDP/ EDP	Special Session		Industrial Visit	Extension and Outreach programs
							Quiz	Cultural/ Celebration/ Sports		
National										
International	yes									

Program Details

National Conference on Environment, Energy and Materials

(ICSEM-2021)

19June -22nd July 2021

ICSEM-2021) 19th July 2021: 10:10 am – 12:30 pm *Inaugural Program*	
Timing (Indian Standard Time) (IST)	**Event**
Zoom Link	**https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09** **Meeting ID: 93083940890** **Passcode: 759022**
10:10 am – 11: 35 am	***INAUGURATION (OP: Dr. Venus Dillu and Dr. Richa Tomar) (Anand Swaroop Auditorium)***
10:20am-10:30am	***Lighting of Lamp, Saraswati Vandana***
10:30am-10:40am	***Address: Prof. R C Singh, Professor, Department of Physics, SBSR, SU***
10:40 am-10:50 am	***Address: Prof. S. K. Banerjee, Dean SBSR, SU***
10:50 am-11:00 am	***Address: Prof Sibaram. Khara, Vice Chancellor, SU***
11:00 am - 11:10 am	**Address: Mr. P. K. Gupta (Chancellor, SU)/ Mr. Y K Gupta (Pro Chancellor, SU)**
11:10 am - 11:25am	**Guest of Honour: Prof. Vinod K. Singh, Rahul and Namita Gautam Chair Professor,**

	Department of Chemistry,IIT Kanpur 208016
11:25 am – 11.35 am	*Vote of Thanks: Prof. P. K. Singh, Convener, ICSEM-2021*

(ICSEM-2021) 20th July 2021			
Session II: 09:30 am – 01:00 pm			
	Session II (a) **Session Chair: Prof. P. K. Shukla** **Faculty Co-ordinator: Dr. Venus Dillu, Dr. Sunil Chauhan and Dr. Anandita De**	**Session II (b)** **Session Chair: Dr. Kamlesh Pandey** **Faculty Co-ordinator: Dr. Pargin, Dr. Shankar and Dr. Suman Kumar**	**Session II (c)** **Session Chair: Prof. S.A. Hashmi** **Faculty Co-ordinator: Dr. K. K. Pandey, Dr. Meenal Gupta and Dr. Teena**
Zoom Link	**https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09** **Meeting ID: 93083940890** **Passcode: 759022**	**https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09** **Meeting ID: 93083940890** **Passcode: 759022**	**https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09** **Meeting ID: 93083940890** **Passcode: 759022**
09:30 am – 10:00 am	**IP 25: Dr. SyahidaSuhaimiUtilization of Cocktail Natural Dyes from Pandanus Amaryllifolius (Pandan Leaves) and ClitoriaTernatea (Blue Pea) as Photosensitizers for Dye-Sensitized Solar Cells (DSSC) - A ReviewShukri, MALAYSIA**	**IP:83 WanZaireenNisa Yahya** **Eutectic ionic liquid as a potential electrolyte for dye-sensitized solar cells, MALAYSIA**	**IP 38: I.M. Noor Impedance Spectroscopy for Evaluating Transport Properties of Electrolyte, MALAYSIA**

10:00 am – 10.30 am	IP 26: Mohd Nor Faiz Nanocellulose as novel filtration material of organophosphorus compounds,malaysia	IP 32: Nor Azah Abdul Aziz A review of recent developments in upconversion nanoparticles in biomedical application, MALAYSIA	IP 39: L.P. Teo Polymer Electrolytes *in* Dye-Sensitized Solar Cells, MALAYSIA
10:30 am – 11:00 am	IP 27: Mazliana Ahmad Kamarudin Tuning the emission energy of colloidal quantum dots, MALAYSIA	IP 33 : Manish Kumar Evidence of magnetoelectric coupling via magnetodielectric effect analysis in multiferroic-ferroelectric solid solutions, INDIA	IP 40 :FaeizaBuyong Comparison of biogas purification from anaerobic digestion of vegetable waste by using sugarcane bagasse and charcoal, MALAYSIA
11:00 am – 11:30 am	IP 28: Woo haw jiunn Prussian Blue as cathode materials for Sodium ion batteries with high electrochemical performance, MALAYSIA	IP 34: Ahmad Azmin Mohamad Cleaning of nickel foam current collector for supercapacitor, MALAYSIA	IP 41: Nur Hashimah Alias Emerging Progress of Graphitic Carbon Nitride ($g\text{-}C_3N_4$)-Based Membrane for Wastewater Treatment, MALAYSIA
11:30 am – 12.00 am	IP 29: R. Tenne Inorganic nanotubes and fullerene-like nanoparticles at the crossroad between materials science and nanotechnology and their applications, ISRAEL	IP35: Siti Nurul Ain Md. Jamil Hypercrosslinked Microspheres of Polyacrylonitrile Terpolymer for the Adsorption of Acidic Pharmaceuticals from Aqueous Solution, MALAYSIA	IP 42: Bhawana Joshi Carbon and oxide-based supercapacitor materials for efficient energy storage applications, INDIA

12:00 noon – 12.30 pm	IP 30: Burak Gultekin Light-Assisted Annealing for Perovskite Solar Cells,Turkey	IP 36: Deniz Kiymaz Improving the capacitive behavior of ultra-thin polyaniline based supercapacitor by self-assembled aniline blue-ws, TURKEY	IP 43 : Ravindra Kumar Gupta Plastic crystal-based redox mediators for dye-sensitized solar cells, Saudi Arabia
12:30 pm – 01.00 pm	IP 31: Prof. Julia A. Baimova, Hydrostatic Compression Followed By Annealing Applied To Obtain A Graphene-Nickel Composite: Atomistic Simulation, RUSSIA.	IP 37: Maria Gavrilescu Recycling corrugated board waste as construction material with low environmental impact and cost, ROMANIA	IP 44 :Maria Giovanna Buonomenna Nanostructured polymer membranes for advanced gas separation,ITALY
Lunch 01:00 pm – 1:30 pm			
Session III: 01:30 pm – 06:00 pm			
Timing	Session III (a) Session Chair: Dr. Manish Kumar Faculty Co-ordinator: Dr. Venus Dillu, Dr. Sunil Chauhan and Dr. Anandita De	Session III (b) Session Chair: Dr. Khurshid Alam Faculty Co-ordinator: Dr. Pargin, Dr. Shankar and Dr. Suman Kumar	Session III (c) Session Chair: Dr. J P Sharma Faculty Co-ordinator: Dr. K. K. Pandey, Dr. Meenal Gupta and Dr. Teena
Zoom Link	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09 Meeting ID: 93083940890	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09 Meeting ID: 93083940890 Passcode: 759022	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM313Zz09 Meeting ID: 93083940890 Passcode: 759022

	Passcode: 759022		
01:30 pm – 01.40 pm	OP1: Rama Koyyati ,In vitro studies on protein binding of polyhydroxybutyrate isolated from Rhodopseudomonaspalustris KRPR02 , INDIA	OP 28: Rohan M Raj: Electron Beam Evaporated In 2 Se 3 Thin Film as Co-Sensitizer for ZnO Dye Sensitized Solar Cells, INDIA	OP 55: YOGENDRA KUMAR, THEORETICAL ANALYSIS OF SUPERCONDUCTIVITY IN IRON, INDIA
01.40 pm – 01.50 pm	OP 2: :Neeraj Shukla: Report of weak Ferromagnetism in thin fullerene films as a consequence of 600 keV Carbon Ion Irradiations, INDIA	OP29: K.HemanandhinI: Green synthesis of undoped and cu-doped zno nanoparticles from leaf extracts of pungan and sirukanpeelai: structural, biological and luminesence studies, INDIA	OP 56:Shoib B Wani, Fire in building structures: a review, strategies and theoretical framework for, INDIA
01.50. pm – 02.00 pm	OP 3: Nupur Prasad: Role of phytochemicals in the synthesis of ZnO nanoparticles using Various parts of plants: a mini review, INDIA	OP 30:Ram Kumar, Structural and optical characterization of 1.5 mev proton micro-beam irradiated thin mos, INDIA	OP 57 Dr.NidhiJaina, An overview of Potential Applications of Carbon Nanotubes, INDIA
02.00 pm – 02.	OP 4: Dr. Thakur Prasad Yadav, Two dimensional	OP 31:Maheralrefaee: Growth of Al doped ZnO thin films by Non-Conventional Sol-Gel method, INDIA	OP 58: RudraniYevatikar, Comparative study of physico-chemical parameters and water quality index of river, INDIA

10 pm	metallic alloys, INDIA		
02. 10 pm – 02. 20 pm	OP 5: Jeevan Kumar Reddy Modigunta, Bio-mimicking Organic-inorganic Hybrid Ladder-like Polysilsesquioxanes: A Surface Modifier of Separator in Lithium-ion Batteries, SOUTH KOREA	OP 32: Anna Popczyk: Organic solid-state lasers based on thiophene derivatives, POLAND	OP 59: Hartaj Singh, A comprehensive review on the new developments consideration in a stir casting processing of aluminium matrix composites INDIA
02. 20 pm – 02. 30 pm	OP 6: Dr. N Raju: Synthesis, characterization, anticancer and antimicrobial activities of bimetallic silver and gold nanoparticles synthesized using a purple non sulphur bacterium Rhodopseudomonas faecalis, INDIA	OP 33: Dr RajitaRamanarayanan: Improving efficiency of Natural Dye sensitized Solar Cell using FRET Mechanism, INDIA	OP 60:RiyaMiddha, Sonicated Chemical Synthesis: Energy Efficient Process for Production of Heterocycles INDIA
02. 30 pm – 02. 40 pm	OP 7: Shreya Mathela, Ionic liquid incorporated poly (ethylene oxide) (PEO) doped with	OP 34: Dr. SoniyaJuneja, A systematic study of Surface Plasmon Enhanced Electric Field in Nanoparticle Dimers for UV PlasmonicsINDIA	OP 61: Bharti Sangwan, Nanomaterials in Antimicrobial Applications: A Remediation Method, INDIA

	potassium iodide (KI) solid polymer electrolyte for energy device, INDIA		
02.40 pm – 02.50 pm	OP 8: Dr. J. Antony Rajam: Fabrication of electrocatalyst for oxygen reduction using silver nanoparticle modified gce in 1,4-naphthoquinone derivative, INDIA	OP 35: Y B Sudhir Sastry: Identification of suitable carbon based composite material for wind turbine blades, INDIA	OP 62: Vaibhav singhjina: ANALYSIS OF Ctb pavement with granular crack relief layer and sami, INDIA
02.50 pm – 03.00 pm	OP 9: Nayana I Sattigeri: Colloidal synthesis of stable zns quantum dots, INDIA	OP 36:GurudeoNirala, Structural and Electrical properties of Gd doped and undoped SrCeO3, INDIA	OP63:Lovepreet Singh, Synthesis and Characterization of Carbon Nanotube Reinforced Hydroxyapatite Ceramics for Biomedical Applications, INDIA
03:00 pm – 03:10 pm	OP 10: NijishaP: Polyvinylidene fluoride and polyvinylidene fluoride co-hexafluoro propylene as polymer matrix to trap the liquid electrolyte in DSSC, INDIA	OP 37: Madan Murari Upadhyay: Upconversion and temperature sensing studies in tm 3+ /yb 3+ co-doped ynbo 4 nanoparticles, INDIA	OP 64:Kapil Singh, Anoverview on the synthesis of aluminium matrix composites using stir casting technique, INDIA

03: 10 pm – 03: 20 pm	OP 11: Santosh R Mannopantar: Preparation colloidal ag nanoparticles, INDIA	OP 38: Ritujangra,Composites of waste derived activated carbon and waste drived graphene for supercapacitive application INDIA	OP 65: YudiKrisnoWicaksono: S electric vehicle future: a scenario analysis of public-private partnerships to develop the world's largest battery industry, INDONESIA
03: 20 pm – 03: 30 pm	OP 12: Dr. Rama Koyyati: Extracellular synthesis of mono and bimetallic nanocomposites from novel strains of purple nonsulfur bacteria and evaluation of their biomedical applications, INDIA	OP 39: Soumik Kumar Kundu: Crystallinity study of cu thin film deposited by indigenous dc magnetron sputtering system, INDIA	OP 66: Gagandeep singh Mechanical characterizations of the fabricated AA 6061 based composites reinforced with B 4 C particulates, INDIA
03: 30 pm – 03: 40 pm	OP 13:Anupamaanjali,Green Catalysis: Solution for Environmental Problems Causes by Chemical Synthesis, INDIA	OP 40: Bogdan Rosca,Comparative aspects regarding concrete of structural grade with recycled brick aggregate with/ without fine particles from crushing, ROMANIA	OP 67: Urmila k s: Structural and optical characterization of reactive evaporated sn 2 sb 4 se 8 thin films, INDIA
03: 40 pm – 03: 50 pm	OP 14: Vijay Singh: Citrus fruit juice clarification by packed column and membrane coupled	OP 41: Debatrayee Dasgupta, Controlled in-vitro release of Doxorubicin Hydrochloride from the drug delivery system based on functionalised mesoporous silica nanoparticles,INDIA	OP 68:Raj Kumar Silicon dioxide-based metamaterial perfect absorber from visible to near-infrared region, INDIA

	operation, INDIA		
03:50 pm – 04:00 pm	OP 15:ShaheenNaz, Application of WBG material for gas sensing, INDIA	OP 42: SyedaMushrifaZahan: Recent advances in solid electrolyte materials for secondary sodium-ion batteries application, INDIA	OP 69:Amanjot Kaur Investigation of crystalographic, morphological and photocatalticbehaviour of ag doped cus nanostructures, INDIA
04.00 pm – 04.10 pm	OP 16:ReenaParihar,Oxygen evolution electrocatalytic properties of sm 1-x sr x nio 3 (0 ≤ x ≤ 0.8) obtained by malic acid sol gel route, INDIA	OP 43: Ram kumar, Structural and optical characterization of 1.5 mev proton micro-beam irradiated thin mos , INDIA	OP 70: Dr. Krishna Kumar Pandey, Evaluation of Sound Velocity and Molar Refraction in binary liquid mixtures through Ultrasonic measurement, INDIA
04.10 pm - 04.20 pm	OP 17: P.Chandrakanta Singh, USB digital microscope endoscope camera-a good tool for quick morphological characterization to optimize the processing parameters in large area laser-induced surface microtexturing , INDIA	OP 44: Hema S, Influence of Wood Husk and CaCO 3 on the Mechanical properties of Nitrile Butadiene Rubber, INDIA	OP 71: MathanaGopal , Pseudo-Gruneisen Parameters for binary liquid mixtures at different temperature, INDIA
4:20 pm – 4:3	OP 18: Lisham Paris Chanu, Effect of co-substitution at	OP 45:Ankit Kumar Vishwakarma, A titanium dioxide-based thick film gas sensor for propanol, INDIA	OP 72: P.Padmavathi, Physico-chemical characterization of Ethyl propionate with Butanol at different temperatures using Ultrasonic technique, INDIA

0 pm	the mn site on the structural and electrical properties of rare earth manganite ymno 3, INDIA		
4:30 pm - 4:40 pm	OP 19: Vipin Kumar, Fabrication and characterization of sol-gel screen printed Zn: CdO (ZCO) thick film for optoelectronic and photovoltaic technologies INDIA	OP 46: Nilesh WasudeoNirwan, Condition monitoring and fault detection in roller bearing used in rolling mill by acoustic emission and vibration analysis, INDIA	OP 73: Dr. Elluri Venkata Prasad, Affordable housing issue: investigation on strength and durability characteristics of lightweight concrete made from fly ash and palm kernel shells - an experimental study, INDIA
4:40 pm - 4:50 pm	OP 20:Sudip Chakraborty, A CFD study on naca 2412 based air-wing using different composite materials, INDIA	OP 47: SajalSahu, Crystal Structurel Analysis of Zinc Oxide Nanostructure from X-ray Diffraction Pattern, INDIA	OP 74: Kanailal Barman, Peak Profile Analysis of Green Synthesized ZnO Nanoparticles, INDIA
4:50pm-5:00pm	OP 21:Komal,Surface and Morphological Characterization of Natural Precursor Derived Activated Carbon, INDIA	OP 48: Mofi Sharon Mathew: Nanomaterials in Antimicrobial Applications: A Remediation Method, INDIA	OP 75: Suvayan Mandal, Rietveld Analysis of Sol-gel Synthesized Copper Oxide Nanoparticles, INDIA

5:00pm-5:10pm	OP 22: Kumar Shwetabh, UP and down conversion photoluminescence study of yf3 :ho 3+ /yb 3+ phosphor, INDIA	OP49 : Lakshmi S Bose, Extragalactic uv radiation at different galactic latitudes, INDIA	OP 76: Yasmeen Jafri Thickness dependent structural and magnetic properties investigation of Co film interfaced with Hf, INDIA
5:10pm-5:20pm	OP 23: Shubham Kumar, Controlled synthesis of L1 0 ordered Fe 100-x Pt x alloy films: Structural and magnetic investigation, INDIA	OP 50: KulandaiVeluRamanathan, Effects of Plasma Treatment on Surface Photovoltage and Contact Potential Variation in Microgranular CdTe , INDIA	OP 77: Suneel Kumar. Asileti, Design and Simulation of Millimeter Wave Patch Antenna for 5G Applications, INDIA
5:20pm-5:30pm	OP 24: Siva ChanderChabattula, Biogenic synthesis of ZnO nanoparticles using Annona muricata plant leaf extract and its anti-cancer efficacy on 2D and 3D tumor models., INDIA	OP 51: H.M.H.D.K. Naranpanawa, Development of anode materials for lithium-ion batteries from sri lankan natural vein graphite , SRI LANKA	OP 78: Mala S, A study on the Impact of Tin concentration on Microstructural and Electrical properties of ITO nanoparticles synthesized by Green Combustion method using Carica papaya seed extract., INDIA
5.30pm-5.4	OP 25: Neha Bansal, Long Term Performance Assessment and Energy Loss Analysis of 9 MW	OP 52:Rajiv Ranjan Srivastava, Electro-chlorination of gold in brine solution followed by solvation in	OP 79: Kuldeep jayaswal, Role of Reliability Assessment in

0pm	Grid Connected Solar Photovoltaic Plant in Hot and Dry Climate in India, INDIA	tri-butyl phosphate for recycling of waste printed circuit boards, INDIA/VIETNAM	Si-based Non-Isolated DC-DC Power Electronic Converters, INDIA
5:40pm-5:50pm	OP 26: Komal Gupta Plant-extract-mediated zno nanoparticles: synthesis and applications, INDIA	OP 53:J.M.K.W. Kumari, Graphite/sno 2 nanoparticles/polyaniline composite as counter electrode for dye-sensitized solar cells3, SRI LANKA	OP 80: Sandeep Verma, Comparative study of Acoustical Parameters in the mixture of Poly(ethylene oxide) and Dimethylformamide at different frequencies, INDIA
5:50pm-6:00pm	OP 27:BasudhaSharma,Green Synthesis of zno nanoparticles using plant extract as a template, INDIA	OP 54:AbiramiRatnakumar, Effect of ultrasonication time on cellulose nanofiber disintegration from locally available rice straw , SRI LANKA	OP 81: Willian Robert: Gellan gum-clay nanocomposite polymer electrolytes with improved ionic conductivity, BRASIL

(ICSEM-2021) 21st July 2021			
Session IV: 9:30 am – 01:30 pm			
	Session IV a Session Chair: Dr. Anji R Polu Faculty Co-ordinator: Dr. Venus Dillu, Dr. Sunil Chauhan and Dr. Anandita De	Session IV b Session Chair: Dr. Deepak Kumar Faculty Co-ordinator: Dr. K. K. Pandey,	Session IV c Session Chair: Dr. Pramod Kumar Mishtra Faculty Co-ordinator: Dr. Richa Tomar, Dr. Meenal Gupta and Dr. Teena

		Dr. Shankar and Dr. Suman Kumar	
Zoom Link	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09 Meeting ID: 93083940890 Passcode: 759022	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09 Meeting ID: 93083940890 Passcode: 759022	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09 Meeting ID: 93083940890 Passcode: 759022
09:30 am – 10:00 am	IP 45: Neelam Srivastava Starch based polymer-in-salt-electrolyte membranes: a new hope for all-solid-state-flexible energy devices, INDIA	IP 52: Amit Saxena Recent Development in Polymer Electrolytes for Rechargeable Batteries, INDIA	IP 60: Rameshwar Adhikari Morphology and Mechanical Properties of Compostable Polymer Composites Based on Copolyester and Natural Fibers, NEPAL
10:00 am – 10.30 am	IP 46:MarilouCadatal-Raduba Rare earth-doped fluoride glass as fast-response scintillator for neutron detection in nuclear fusion experiments, NEW ZEALAND	IP 53: Z. Osman The effects of using different anions in magnesium based-poly(vinylidene chloride-co-acrylonitrile)/succinonitrile gel polymer electrolytes, MALAYSIA	IP 61: Akhilesh Kumar Singh Tuning Crystal Structure and Phase Coexistence of Piezoelectric Ceramics for Energy, INDIA
10:30 am –	IP 47:Meenakshi Singh MIP sensors for disease biomarkers, INDIA	IP 54 :Nataly Carolina Rosero-Navarro	IP 62 : Yogesh Kumar Redox composite materials for electrochemical supercapacitors, INDIA

11:00 am		Solution processes for the preparation of solid electrolyte and composite electrodes in all-solid-state batteries,	
11:00 am – 11:30 am	IP 48: Jai Singh Metal Di- chalcogenides Nano-materials for Transistor Application, INDIA	IP 55 :Anji Reddy Polu Journey of Organic-Inorganic Hybrid (POSS) Nanocomposite Polymer Electrolytes in Batteries from Li-Ion to Li-Air Via Li-S Batteries, INDIA	IP-63: Shweta Jagtap Graphene/MOS based gas sensor, INDIA
11:30 am – 12.00 am	IP 49: Deepak Kumar Current status and future prospects of polymer gel electrolytes for Na-S batteries, INDIA	IP 56 : O.P. Sinha Reduced Graphene Oxide / Zinc Oxide based nanocomposites as electrode materials for high - performance supercapacitor, INDIA	IP 64: Narendra Kumar Singh Nano-sized Spinel Oxides: Synthesis and Electrocatalytic Activity Towards Electro-oxidation of Methanol in Alkaline Medium, INDIA

12:00 pm – 12.30 pm	IP 50: Udai P Singh Thin Film Solar Cell Technologies: Current Status and Future Prospects, INDIA	IP 57: Manoj K. Singh Quasi-state-supercapacitor fabricated with activated carbons derived from honeycomb, INDIA	IP 65: Sujata Tarafdar Drying Droplets: Understanding their flow pattern using the Euler characteristic a topological tool, INDIA
12:30 pm – 1:00 pm	IP 51: Sabrina Carola Carroccio Polymeric hybrid cryogel for water remediation, ITALY	IP 58: ProF.Bhaskar Bhattacharya Ion Beam Irradiation effects on Polymer Electrolytes, INDIA	IP 66: Karol Strzałkowski Properties of $cd_{1-x}zn_xte$ compounds grown by high-pressure bridgman technique, POLAND
1:00pm-1:30pm	PL 4: Prof. Ceylan Zafer New approaches to enhance the stability and efficency of triple-cation perovskite solar cells,TURKEY	IP 59: Federico Bella Challenges of photovoltaics and electrochemical energy storage from 2021, ITALY	IP 67: <u>Erkan Aksoy</u> Investigation of excited state behavior of perylene tetrabutylester and its use in oled, TURKEY
Lunch: 1:30 pm to 2:00 pm			
Session V: 02:00 pm – 05:00 pm			
Timing	Session V a Session Chair: Dr. Anji R Polu Faculty Co-ordinator: Dr. Venus Dillu, Dr. Sunil Chauhan and Dr. Anandita De	Session V b Session Chair: Dr. Deepak Kumar Faculty Co-ordinator: Dr. K. K. Pandey, Dr. Shankar and Dr. Suman Kumar	Session V c Session Chair: Dr. Pramod Kumar Mishtra Faculty Co-ordinator: Dr. Richa Tomar, Dr. Meenal Gupta and Dr. Teena

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02:00 pm – 02.10 pm	OP 82: Sakshi KabraMalpani, Perlite: an economical support material for immobilization of transition metal for a series of liquid phase esterification reaction, INDIA	OP 99: Yashwanth C, Nanomaterials for Military Use: Boosting National Pride, INDIA	OP 114: Ankita: STUDY OPTICAL PROPERTIES OF ONE-DIMENSIONAL PHOTONIC, INDIA
02.10 pm – 02.20 pm	OP 83: Ch. Vaishnavi Srinivas, HERTZIAN STRESS ANALYSIS OF METAL AND 3D PRINTING MATERIALS, INDIA	OP 100: Subhasmita Jena, Selecting the best AISI steel grades and their proper heat treatment process by integrated Entropy-TOPSIS decision making techniques, INDIA	OP 115: Karolina Waszkowska: Metalloporphyrins as supramolecular models with potential application in nonlinear optics, POLAND
02.20. pm –	OP 84: K. Sharath Kumar, Finite element analysis of	OP 101: Megha Sen Chowdhury: Understanding the secondary interactions within cu (ii)-based catecholase systems using hirshfeld surface	OP 116: Jyothilakshmi V P:Polymorphic

02.30pm	vibration isolator by various materials, INDIA	and molecular docking analysis, INDIA	reverse phase transformation of TiO 2 from rutile to anatase phase accompanying morphological change via hydrothermal treatment, INDIA
02.30 pm – 02.40pm	OP 85: RasagnaGajgari, PZT material: the great potential of future electricity cohort through vibration energy, INDIA	OP 102: Ritu Singh: Design of molecularly imprinting polymer as electrochemical sensing platform for dual analyte analysis, INDIA	OP 117: Ch. Kapil: Effect of Marble Dust Reinforcement in Composites for Different Applications: A Review, INDIA
02.40 pm – 02.50pm	OP 86: JalkamTanishChnadra, Fatigue analysis of piezo composite disc for energy harvesting, INDIA	OP 103:Rahul Ramchandra Karnakar: Coating of Urea Granules with Epoxidised Vegetable Oil Cured by Triethylenetetramine for Control Release: A Green Approach, INDIA	OP 118: Digvijay Nath Dubey:Ferroelectricity driven by 'A' and 'B' site off-centered displacements in cubic phase with Pm-3m space group, INDIA
02.50 pm–3.00 pm	OP 87: Emani poojitha: Eigen analysis of sundry clamped free beam made of steel, smart material and composite materials, INDIA	OP 104: Dr. Madhumita Mukhopadhyay: Understanding the excited state intramolecular proton transfer phenomena of 2-hydroxy-3-naphthaldehyde thiosemicarbazone, INDIA	OP 119: Aswini R. Potentiodynamically Synthesized Nano- Worm Like Nickel Oxide Thin Film as Supercapacit

			or Electrode, INDIA
03.00 pm – 03.10 pm	OP 88: K Viswanath Allamraju, Effect of poisson ratio on modal analysis of piezo composite for energy harvesting, INDIA	OP 105: D.savitha:Structural, Optical and electrical properties of undoped and doped (Al, Al+Mn) ZnO nanoparticles synthesized by Green Combustion method using Terminalia Catappa seeds extract, INDIA	OP 120:Navneetkaur: Optical studies of core-shell based biodegradable nanocomposite, INDIA
03.10 pm – 03.20 pm	OP 89: Shilpa N Borkar, Influence of Strontium incorporation on energy storage behaviour of Barium Titanate., INDIA	OP 130: Deepti Goyal, Development of green, effective, and cost-efficient perlite supported solid base catalyst and applications in condensation and trans-esterification reactions, INDIA	OP 121: Prof. Susanta Kumar Das: Second harmonic generation of femtosecond laser pulses of wavelength 1000 nm using zno nanorods, INDIA
03.20 pm – 03.30pm	OP 90: Infanta Diana: Development of biopolymer electrolyte based on sodium alginate: sodium iodide for sodium ion battery, India	OP 132: Sakshi KabraMalpani, Perlite: an economical support material for immobilization of transition metal for a series of liquid phase esterification reaction, INDIA	OP 123: Vismitha S. Patil: Colloidal synthesis of stable znse nanoparticles, INDIA
03:30 pm – 03:40 pm	OP 91: Dr. Shankramma K: friendly nanomaterials: A major concern for soil remediation, INDIA	OP 106:Neeraj Kumar Mishra: Near infrared emitting photo stimulated persistent luminescence in Cr 3+ doped ZnGa 2 O 4 ceramic materials, INDIA	OP 124: Ashwini K B: Structural and electrical characterization of ITO nanoparticles synthesized by

			Hydrothermal using Polyethylene glycol 400, INDIA
03: 40 pm – 03: 50 pm	OP 92:NilanjanDey: Hg 2+ -Induced Coordination-driven Supramolecular Assembly in Aqueous Medium: Analysing Real-Life Samples for Heavy Metal Pollutants, INDIA	OP 107:NaravaDivyaAparna,:Boron Nitride Nanosheets Reinforced Polymer Nano composites for Thermal Management Applications: A Review, INDIA	OP 125: Anurag Tyagi: Synthesis of partially exfoliated graphite for supercapacitor application, INDIA
03: 50 pm – 04: 00 pm	OP 93:Dr.Yagya Dutta Dwivedi:Flow field study of effect of canard location on aircraft aerodynamic performance, INDIA	OP 108: Karedla Madhu Babu,:Nanofluids for Electronics Chip Cooling Application: A Review, INDIA	OP 126: Mubarak Usman Mahmoud: Chemistry of Amazing Molecule: Water, NIGERIA
04: 00 pm – 04: 10 pm	OP 94: Dr. SachinTejyan:Mechanical Characterization of SiC and Neem Leaf Ash Powder Reinforced Al Alloy Metal Matrix Composites, INDIA	OP 109: Badisa Prasanth Kumar: Rolling of Thermoplastics and its CompositHarishaINDIReview, INDIA	OP 127: Muhammad Abubakar Sa'id: Adoption of Green Methodology in Industry for the Synthesis of Sildenafil Citrate & Celecoxib: A Case Study, NIGERIA

04: 10 pm – 04: 20 pm	OP 95: Sangeeta Mukherjee:Electrocatalytic properties of nano-sized spinel type NiCo 2-x Cr x O 4 oxides (x = 0 and 0.2) for oxygen evolution and methanol oxidation in Alkaline medium, INDIA	OP 110:SamitKarmakar: Study of simultaneous plasma etching and heat treatment to modify commercial copper foil suitable for graphene synthesis, INDIA	OP 128: L.V.V.Gopala Rao, Design and fabrication of parabolic solar water desalination system ,INDIA
04: 20 pm- 04: 30 pm	OP 96: Pappu Kumar Harijan: Synthesis and characterization of bf-0.35pt ceramic and study the effect on tetragonality with size, INDIA	OP 111:KampaBalaKoteswara Rao: Aluminum-Magnesium Alloy Composites Processing, Microstructure and Mechanical Properties: A Review. INDIA	OP 129: Nirvik Sahoo: Waste Plastic Derived Graphene/Vanadium Pentoxide Composite for High Performance Supercapacitor application, INDIA
04: 30 pm- 04: 40 pm	OP 97:Debabandana Apta: Efficient photocatalytic dye decomposition using tio 2 nano structured thin film grown by non-conventional sol-gel technique. INDIA	OP 112:Dr. Vipin Sharma: Experimantal evaluation of solar still coupled with parabolic trough collector, INDIA	OP 130: Deepti Goyal, Development of green, effective, and cost-efficient perlite supported solid base catalyst and applications in condensation and trans-esterification reactions, INDIA

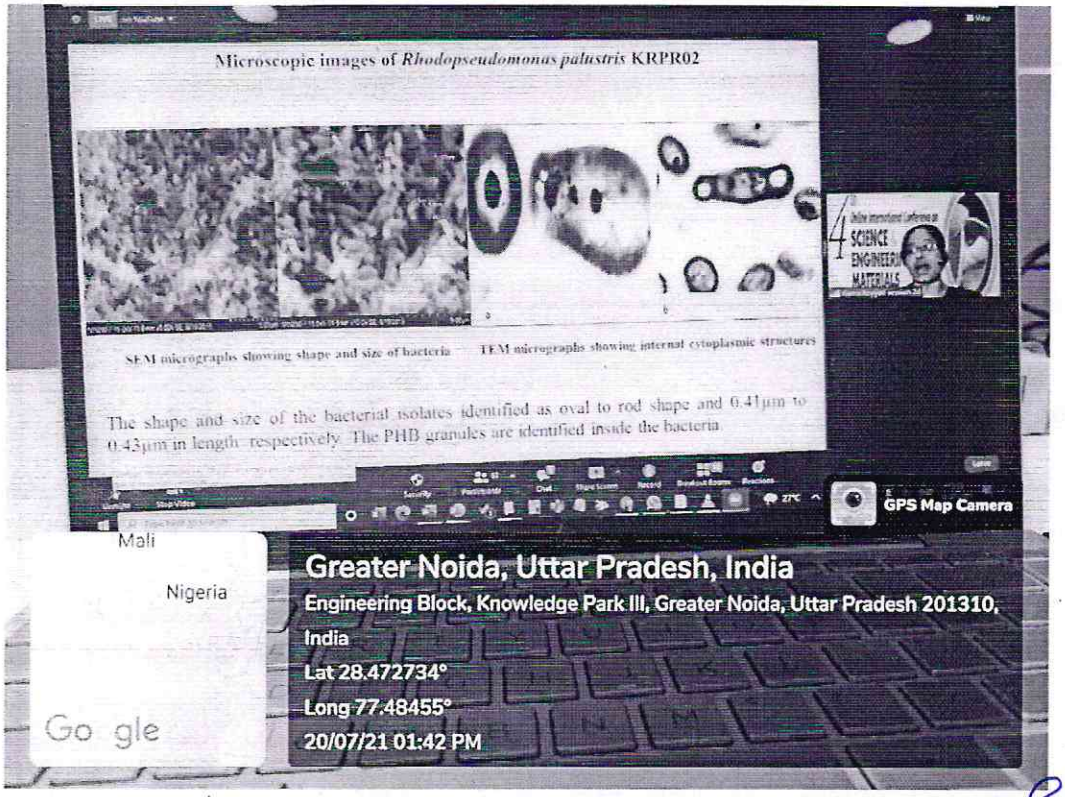
04: 40 pm-04: 50 pm	OP 98: Sushma Shree K, Impact of nanoparticles on plant growth and their significance, INDIA	OP 113: Ram Gopal, TEMPERATURE DEPENDENT UP AND DOWN CONVERSION PHOTOLUMINESCENCE STUDY OF BaWO4 :Er 3+ PHOSPHOR, INDIA	OP 122: Ata Aditya Wardana: Combination of chitosan and peppermint essential oil as potential active coating against penicillium digitatum and Botrytis Cinerea, INDONESIA/JAPAN
04: 50 pm-05: 00 pm	OP 131: L.V.V.Gopala Rao ,Performance Analysis of uncoated Tools for machining of Hard to Cut Materials, INDIA	OP 132: B. Sathya Sai Swaroop, Characterization of hybrid fiber reinforced polymer matrix composites, INDIA	OP 133: P.K Shukla: The conductivity and dielectric studies of carboxymethyl cellulose based biopolymer gel electrolyte ,INDIA

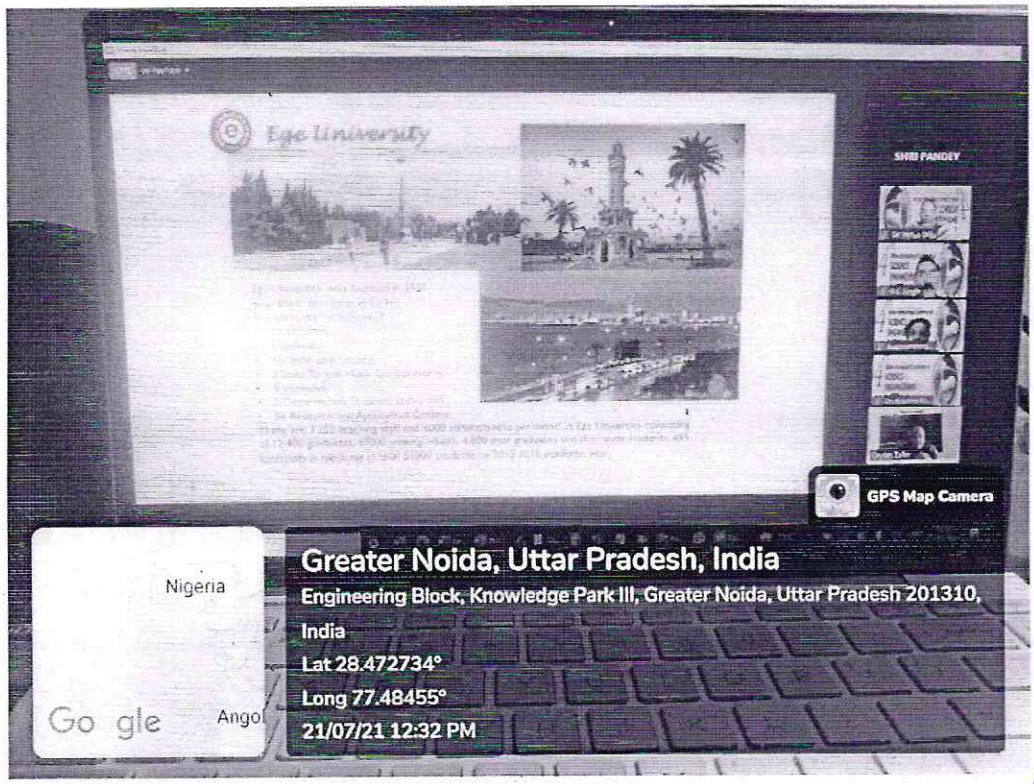
ICSEM-2021) 22nd July 2021	
Session VI: 9:30 am – 01:00 pm	
Time	Session VI (a) Session Chair: Dr I M Noor, Malaysia Faculty Co-ordinator:Dr. Pargin, Dr. Sunil Chauhan and Dr. Anandita De

Zoom Link	https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09 Meeting ID: 93083940890 Passcode: 759022
09:30 am – 10:00 am	IP 68 :F. Caballero-Briones Synthesis and characterization of magnetic graphene oxide: phase composition, fine structure and magnetic properties, MEXICO
10:00 am – 10.30 am	IP 69: Sujeet Kumar Chaurasia Development of Task-Specific Ionic Liquid based Solid-State Electrolytes for Technological Applications,INDIA
10:30 am – 11:00 am	IP 70 :Md. Abu Bin Hasan Susan Tuning morphology and magnetic properties of alnico electrodeposited from a bath of reverse micelles, BANGLADESH
11:00 am – 11:30 am	IP 71 :Shin-ichiYusa Preparation of pH-responsive Polymers and Their Application, JAPAN
11:30 am – 12.00 pm	IP 72 : Ab. Malik Marwan Ali, High output voltage of flexible zinc oxide-reduced graphene oxide nanogenerator, MALAYSIA
12:00 pm – 12.30 pm	IP 73: SergueiSavilov The Features of Carbon-based 2D Nanostructures RUSSIA
12:30 pm – 01:00 pm	IP 74 P.K Shukla Ion transport in Polymer Electrolytes: Space Charge relaxation modelling approach, INDIA
Lunch :01:00 pm to 2:00 pm	
Session VII: 2pm- 7pm Session VII (a) Session Chair: Dr. Naresh Kumar	

Zoom link:	*https://zoom.us/j/93083940890?pwd=eUZwTXNoNWJ2aTdaeGlmTmhHM3l3Zz09* *Meeting ID: 93083940890* *Passcode: 759022*
2:00 pm- 2:30	*IP 75: Alessandra Carbone* *Anion exchange membranes for amfc devices, Italy*
2:30 pm – 3:00 pm	*IP 76: Sabrina Belbekhouche,* *Layer-by-layer assembled capsule as promising drug delivery system* *, FRANCE*
3:00 pm-3:30pm	*IP 77: Famiza Abdul Latif* *Influence of Reaction Viscosity on the Synthesis of un-Structured PMMA in the Development of Flexible Membrane, MALAYSIA*
3:30 PM-4.00 PM	*PL 5: Agnieszka Pawlicka,* *Environment-friendly hydrogels for plants and devices, BRAZIL*
4:00 PM-4:30 PM	*IP 78 : Simona Liguori* *Engineering a Paradigm Shift in How We Think About Reactors: Metallic Membranesfor Highly Intensified Ammonia Synthesis,USA*
5:00pm-7:00pm	***VALEDICTORY SESSION (Dr. Venus) Dr. Pramod Kumar Singh (HOD)***

Photographs

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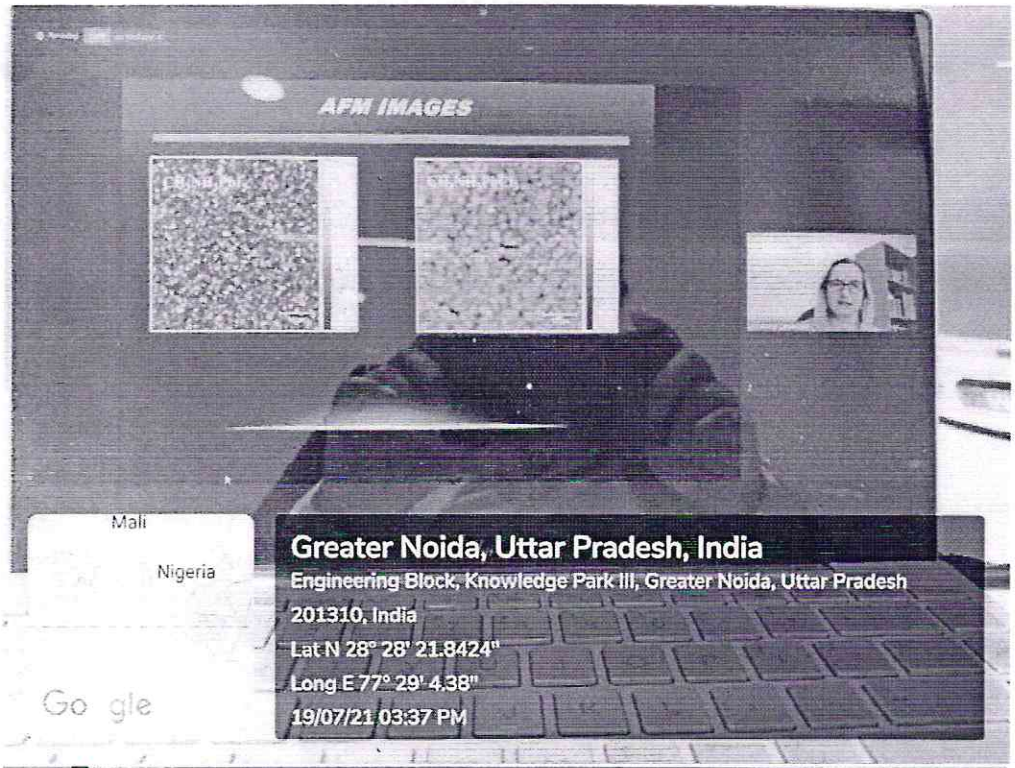
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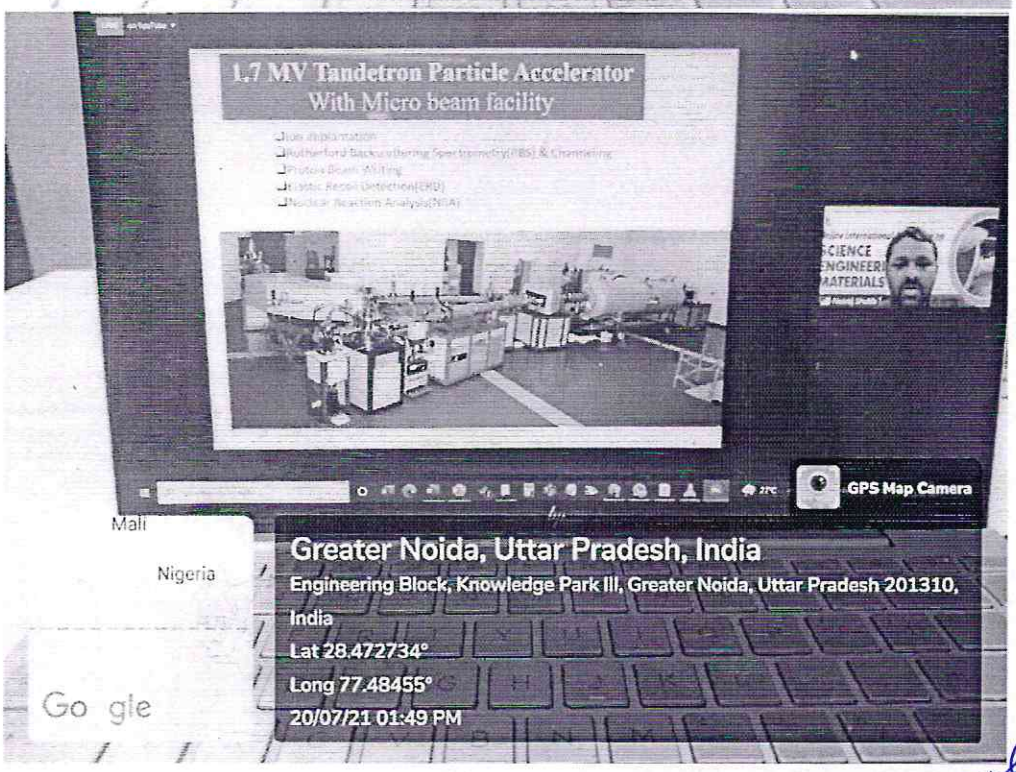
1.7 MV Tandetron Particle Accelerator
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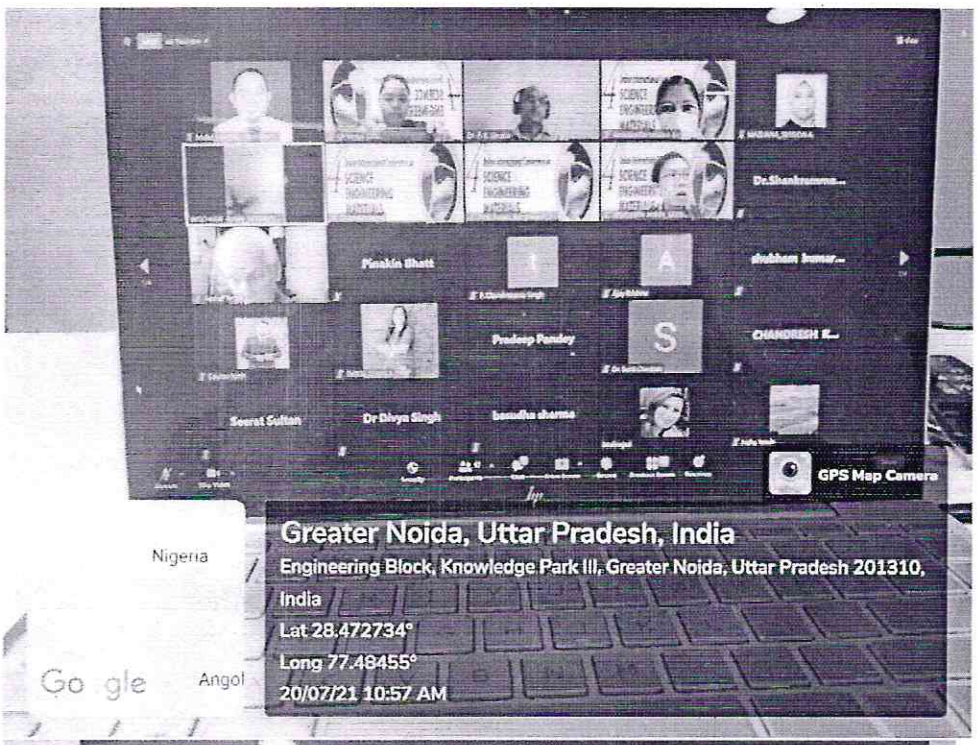
Pinakin Bhatt
Pradeep Pandey
Seerat Sultan
Dr Divya Singh
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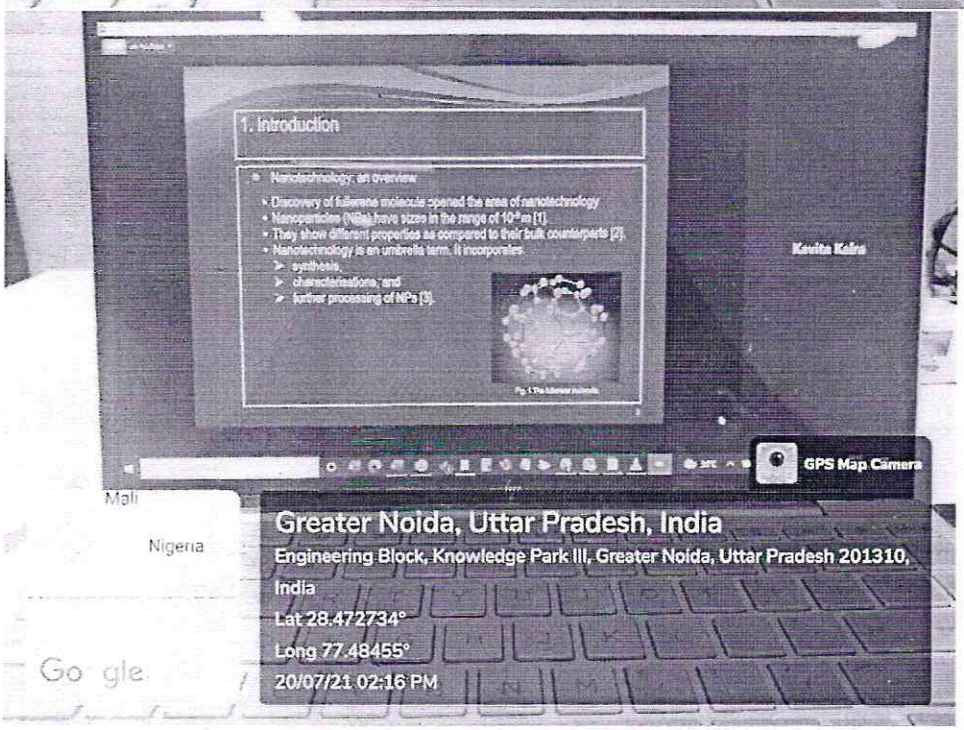
1. Introduction
Nanotechnology: an Overview
Discovery of fullerene molecule opened the area of nanotechnology
Nanoparticles (NPs) have sizes in the range of 10⁻⁹ m [1].
They show different properties as compared to their bulk counterparts [2].
Nanotechnology is an umbrella term, it incorporates
synthesis,
characterisations, and
further processing of NPs [3].
Kavita Kalra
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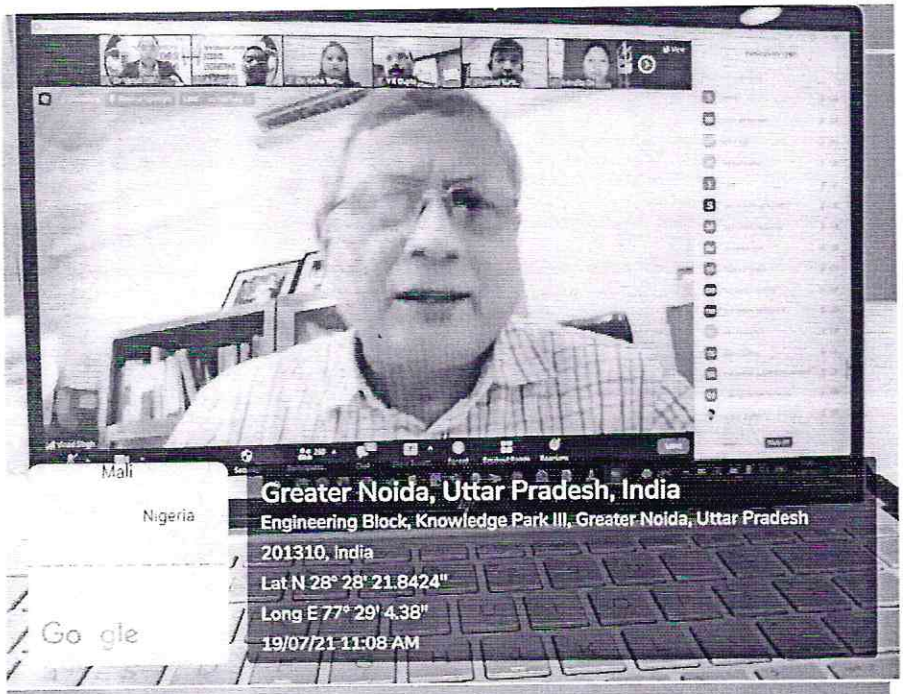
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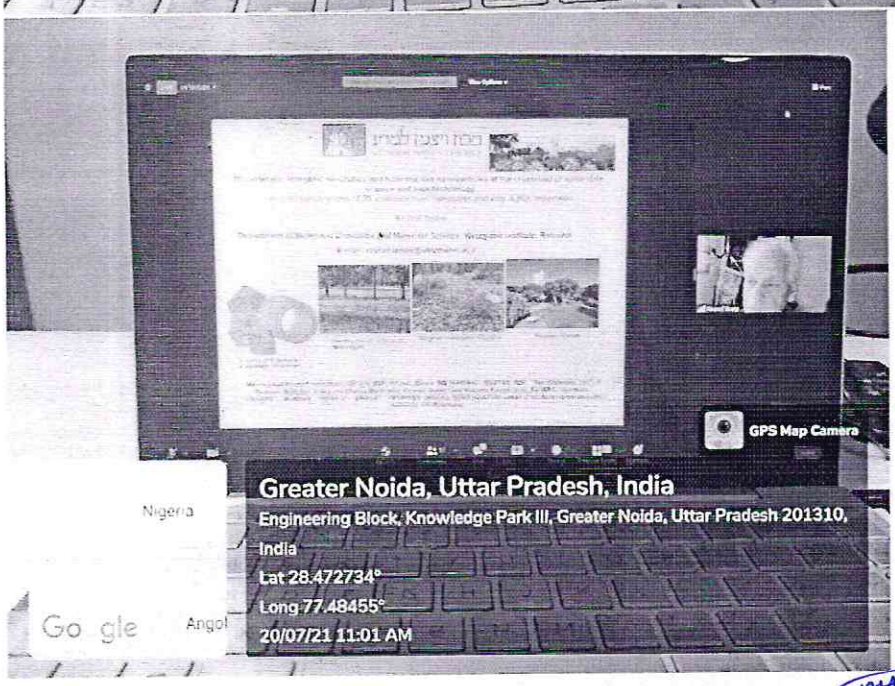
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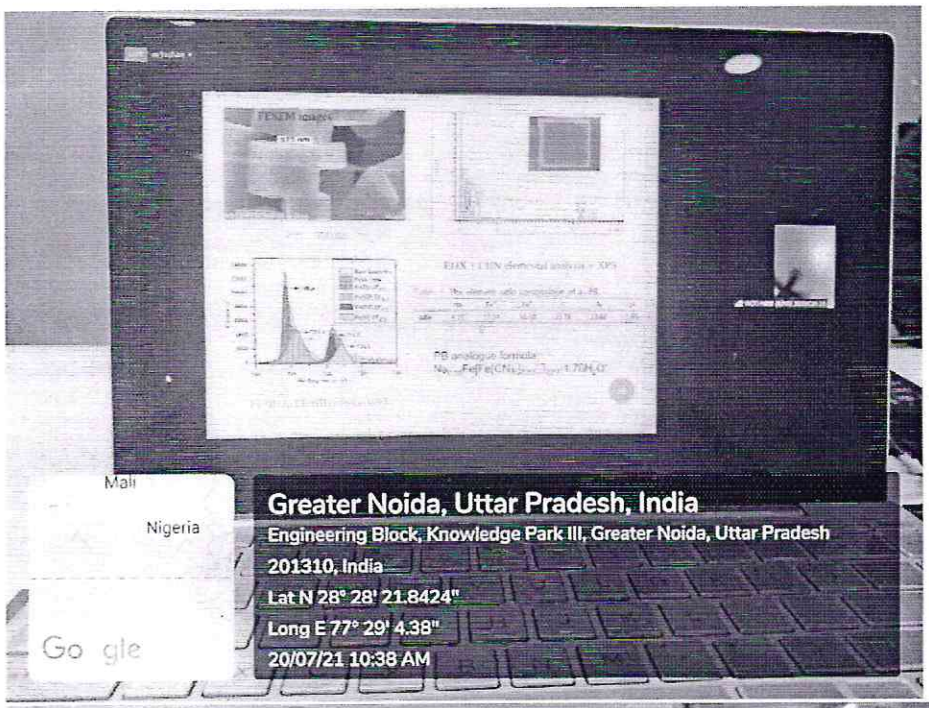
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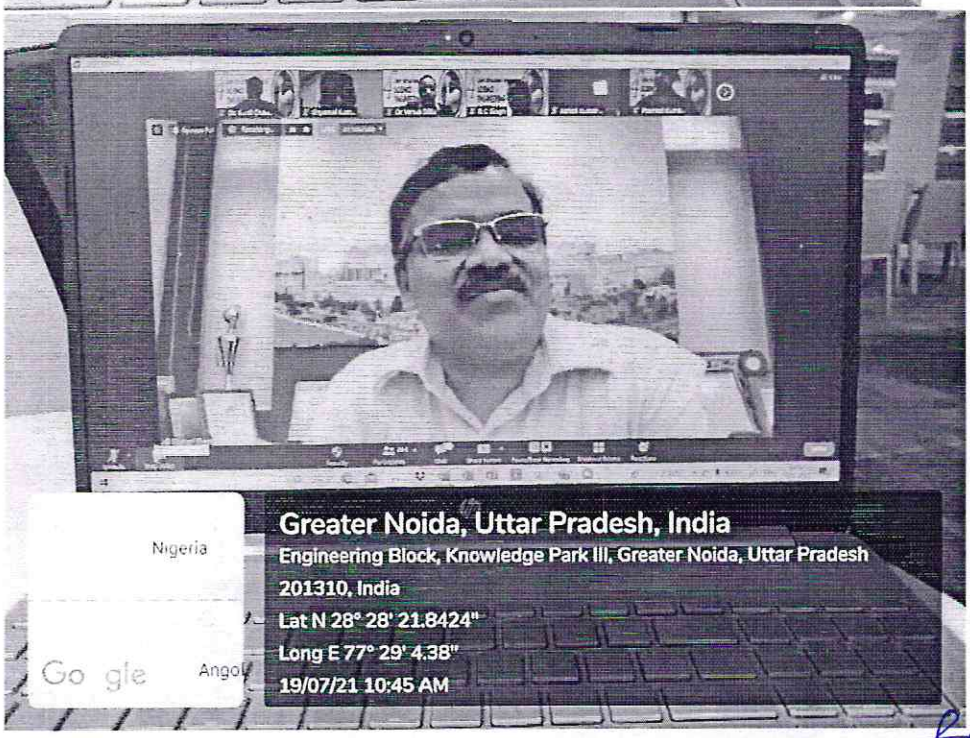
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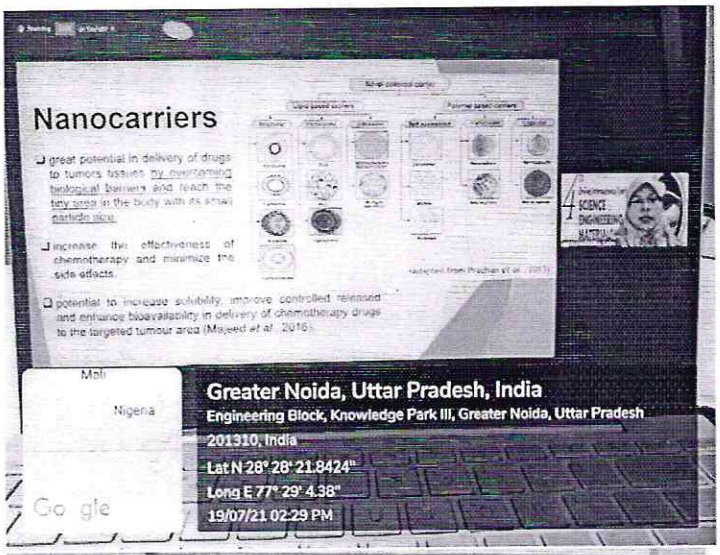
Nanocarriers
great potential in delivery of drugs to tumors tissues by overcoming biological barriers and reach the tiny area in the body with its small particle size
increase the effectiveness of chemotherapy and minimize the side effects
potential to increase solubility, improve controlled released and enhance bioavailability in delivery of chemotherapy drugs to the targeted tumour area (Majeed et al. 2016)
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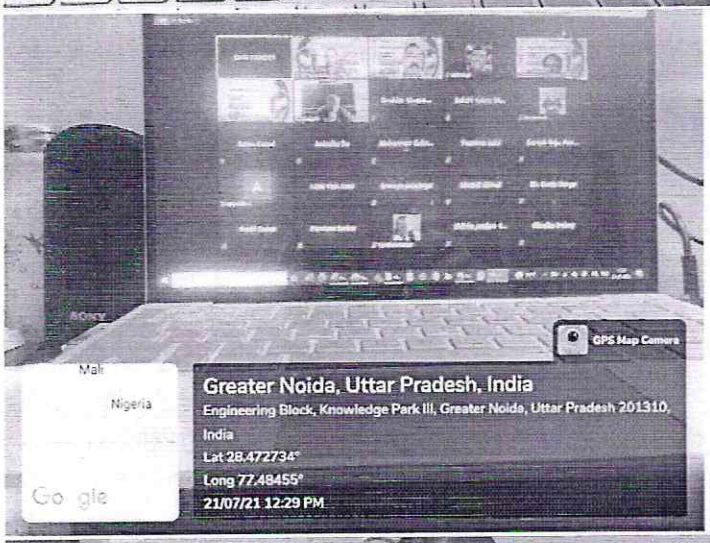
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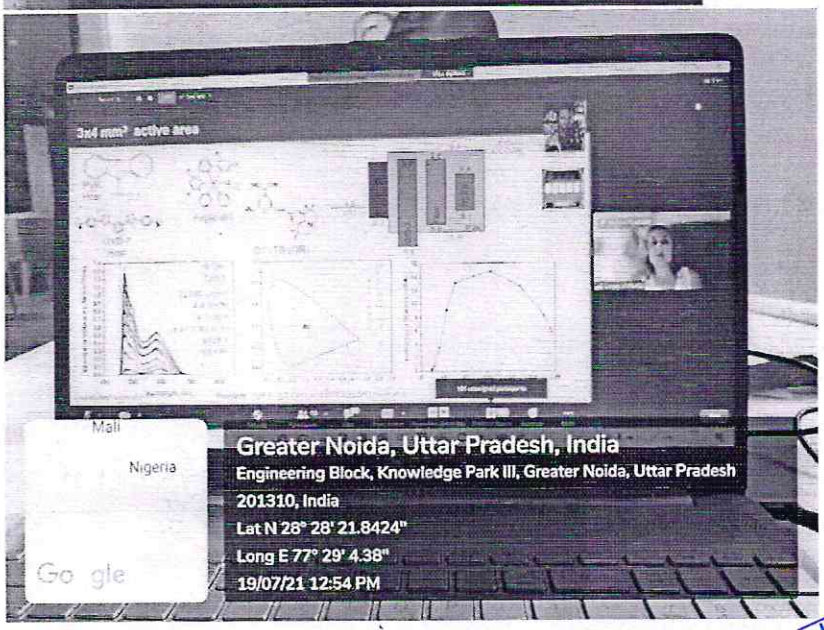
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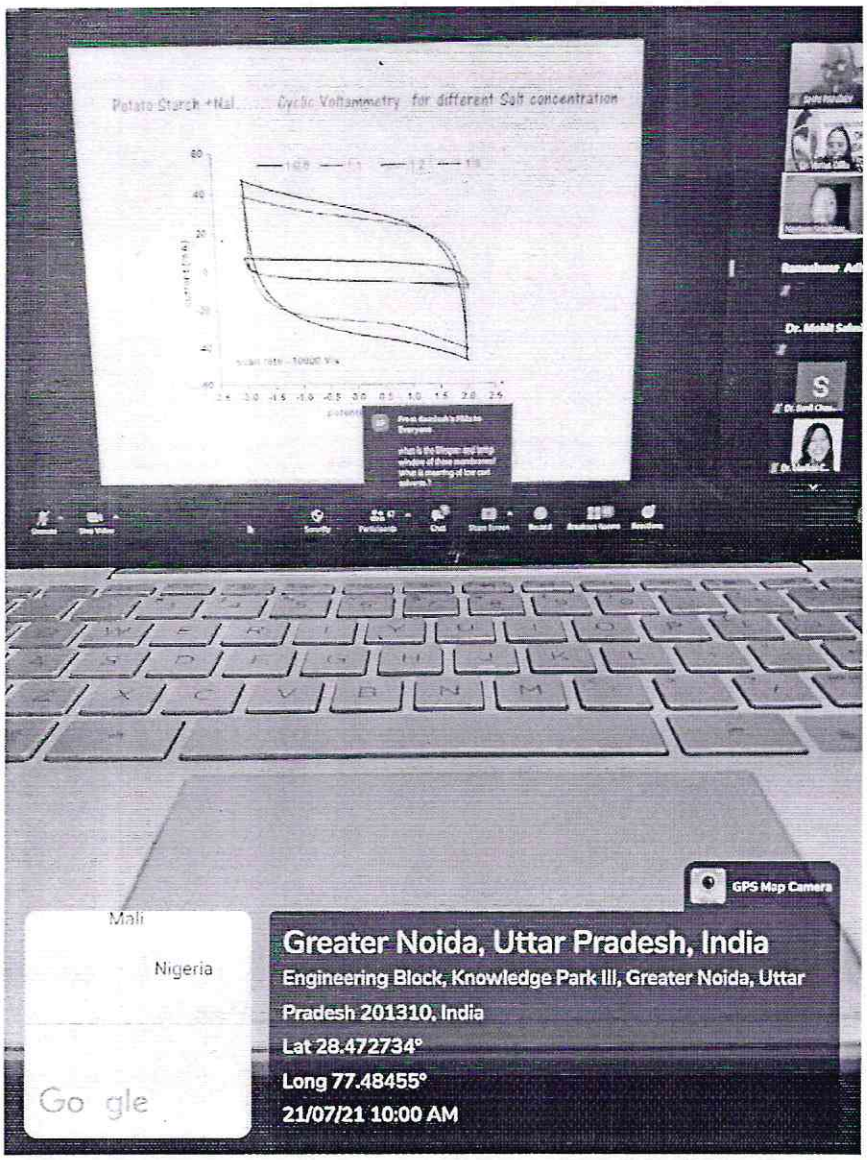
Potato Starch +NaI..... Cyclic Voltammetry for different Salt concentration
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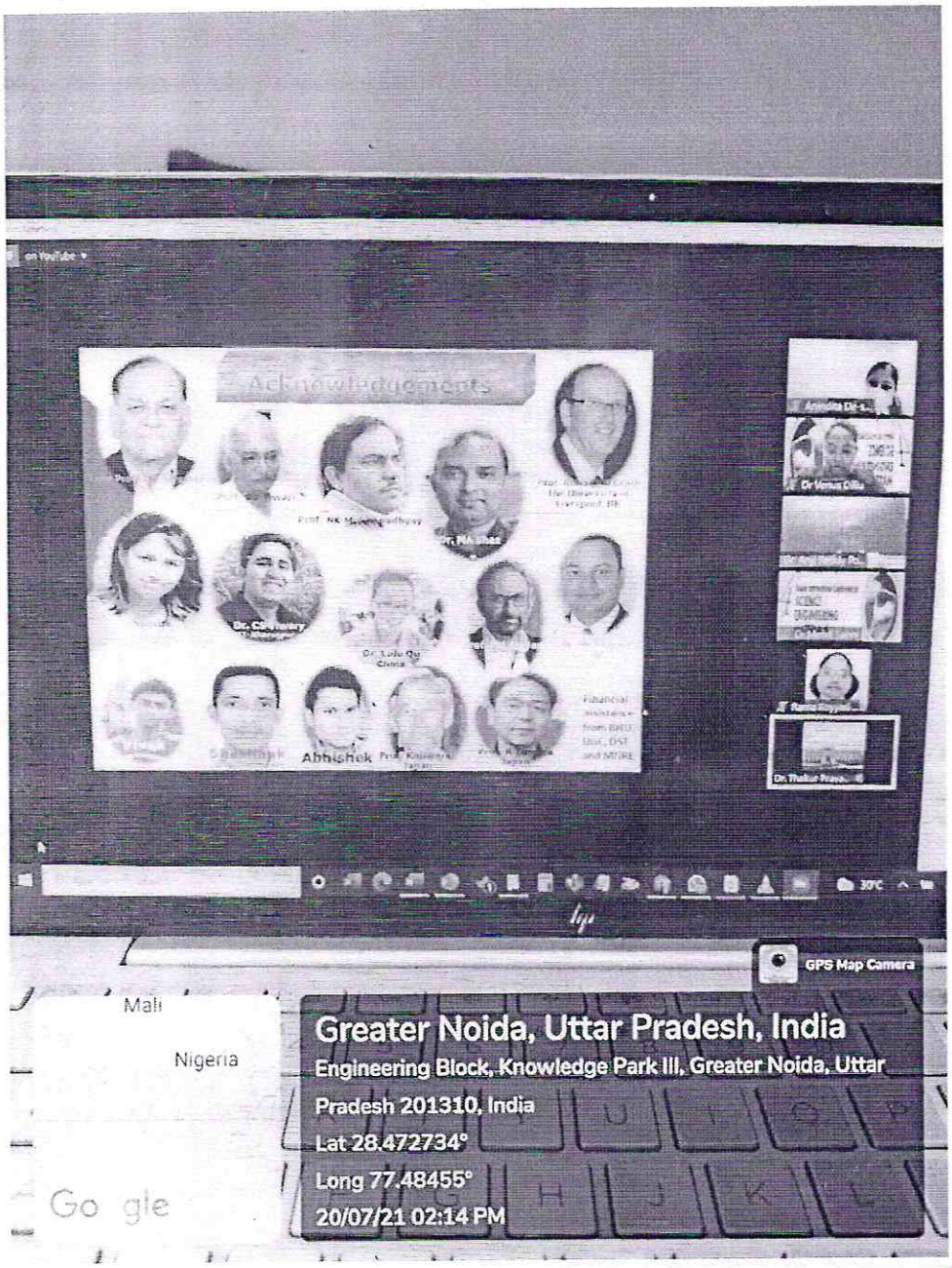
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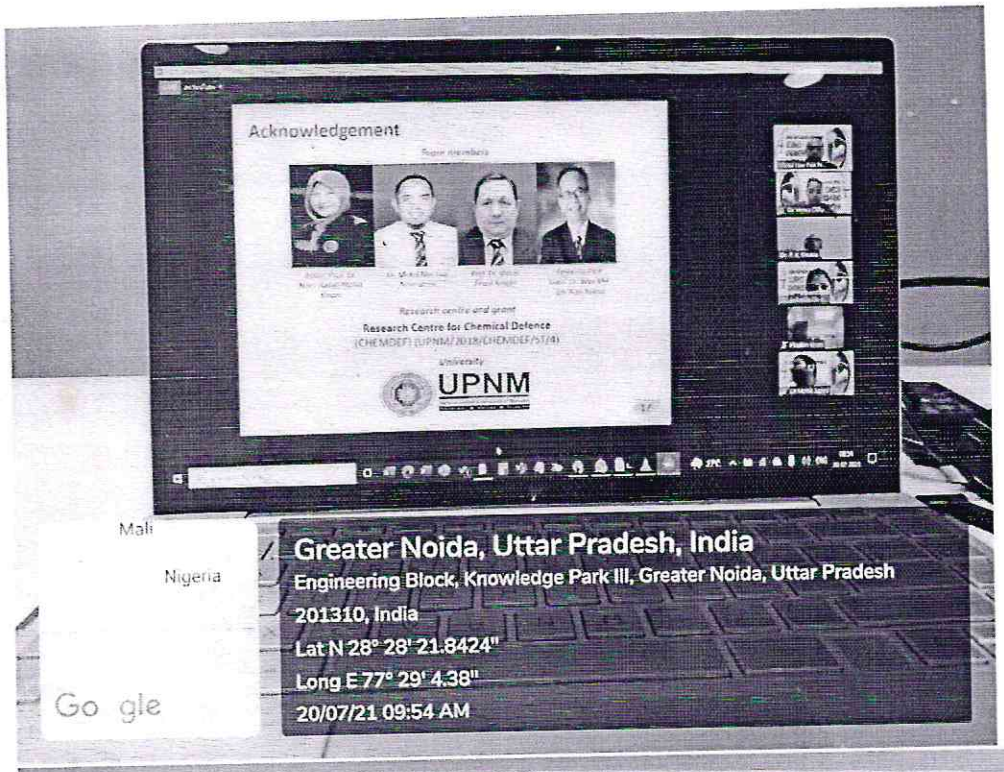

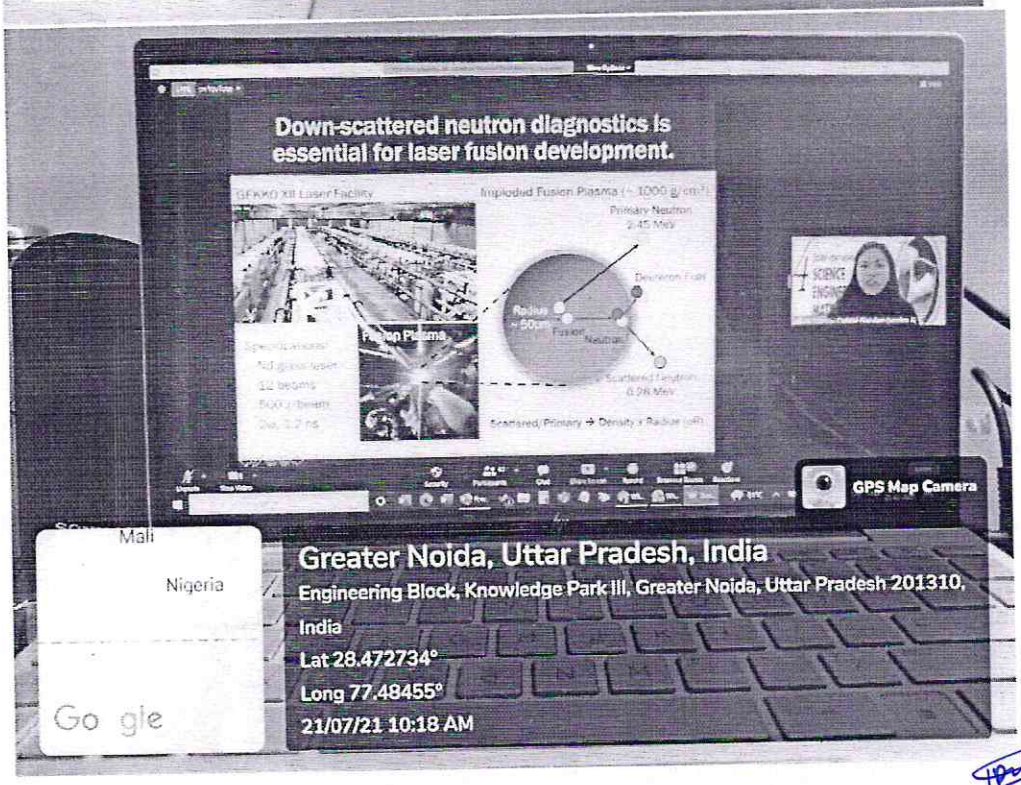

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