

## PROFILE OF THE TEACHERS

1. Name: Dr. Manindra Kumar
2. Father's Name: Chandrabhan
3. Mother's Name: Sugesar Devi
4. Department: Physics
5. Date of Joining the University: 03 July 2018



6. Total Teaching Experience:                      UG- 06 Years                      PG- 04 Years
7. Total Research Experience: 07 Years
8. Area of Specialization: Solid State Ionics, Microbial Fuel Cell
9. Academic Qualifications:

UG	D.D.U.Gorakhpur University-Gorakhpur
PG	D.D.U.Gorakhpur University-Gorakhpur
Ph.D.	Department of Physics, Banaras Hindu University-Varanasi
PDF	Department of Physics, Banaras Hindu University-Varanasi
Any Other	

10. International/National fellowship/financial support for advance studies/research

S. No.	Name of fellowship/financial support	Year of Award	National/International	Awarding Agency
1	Rajiv Gandhi National Fellowship	2009	National	UGC- New Delhi
2	UGC-PDF-SS	2015	National	UGC- New Delhi

11. International/National award/recognition for academics

S. No.	Name of award/recognition	Year of Award	Title of the innovation	National/International	Awarding Agency

12. Extension activity participation

S.No.	Name of activity	Year

If any award received-

S. No.	Name of activity	Name of award/recognition	Year of Award	National/International	Awarding Agency

13. Ph.D. supervised

S. No.	Name of the Ph.D. scholar	Title of the Thesis	Year of registration of the scholar	Year of award of Ph.D.

14. Research/Review Papers published

S.No	Title of paper	Name of the author/s	Name of Journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
1	Electrical transport behaviour of bio-polymer electrolyte system: Potato starch+ ammonium iodide	Manindra Kumar, Tuhina Tiwari, Neelam Srivastava	Carbohydrate polymer s	2012	0144-8617	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0144861711010526">https://www.sciencedirect.com/science/article/abs/pii/S0144861711010526</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0144861711010526">https://www.sciencedirect.com/science/article/abs/pii/S0144861711010526</a>	Yes
2	Diffusion-limited aggregation in potato starch and hydrogen borate electrolyte system	Tuhina Tiwari, Manindra Kumar, Kamlesh Pandey, Neelam Srivastava,	Advances in Condensed Matter Physics	2013	1687-8124	<a href="https://www.hindawi.com/journals/acmp/2013/781058/">https://www.hindawi.com/journals/acmp/2013/781058/</a>	<a href="https://www.hindawi.com/journals/acmp/2013/781058/">https://www.hindawi.com/journals/acmp/2013/781058/</a>	Yes

		PC Srivastava						
3	Electrical transport study of potato starch-based electrolyte system-II	Tuhina Tiwari, Manindra Kumar, Neelam Srivastava, PC Srivastava	Materials Science and Engineering: B	2014	0921-5107	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921510713003978">https://www.sciencedirect.com/science/article/abs/pii/S0921510713003978</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921510713003978">https://www.sciencedirect.com/science/article/abs/pii/S0921510713003978</a>	Yes
4	Investigation of electrical and dielectric properties of NaI doped synthesized systems	Manindra Kumar, Neelam Srivastava	Journal of Non-Crystalline Solids	2014	0022-3093	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0022309314000854">https://www.sciencedirect.com/science/article/abs/pii/S0022309314000854</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0022309314000854">https://www.sciencedirect.com/science/article/abs/pii/S0022309314000854</a>	Yes
5	Ion dynamics behavior in solid polymer electrolyte	Neelam Srivastava, Manindra Kumar	Solid State Ionics	2014	0167-2738	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0167273813005183">https://www.sciencedirect.com/science/article/abs/pii/S0167273813005183</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0167273813005183">https://www.sciencedirect.com/science/article/abs/pii/S0167273813005183</a>	Yes
6	Ion transport properties of NaPF <sub>6</sub> - and NaCl-doped poly(N-phenylene N'imino penty)imminium propane sulfonate	Tuhina Tiwari, Nazia Tarannum, Manindra Kumar & Neelam Srivastava	Ionics	2014	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-014-1097-0">https://link.springer.com/article/10.1007/s11581-014-1097-0</a>	<a href="https://link.springer.com/article/10.1007/s11581-014-1097-0">https://link.springer.com/article/10.1007/s11581-014-1097-0</a>	Yes

7	Understanding the ion dynamics and relaxation behavior from impedance spectroscopy of NaI doped Zwitterionic polymer system	Manindra Kumar, Tuhina Tiwari, Jagdish Kumar Chauhan, Neelam Srivastava	Materials Research Express	2014	2053-1591	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/1/4/045003/meta">https://iopscience.iop.org/article/10.1088/2053-1591/1/4/045003/meta</a>	<a href="https://iopscience.iop.org/article/10.1088/2053-1591/1/4/045003/meta">https://iopscience.iop.org/article/10.1088/2053-1591/1/4/045003/meta</a>	Yes
8	Conductivity and dielectric investigation of NH4I-doped synthesized polymer electrolyte system	Manindra Kumar & Neelam Srivastava	Ionics	2015	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-014-1294-x">https://link.springer.com/article/10.1007/s11581-014-1294-x</a>	<a href="https://link.springer.com/article/10.1007/s11581-014-1294-x">https://link.springer.com/article/10.1007/s11581-014-1294-x</a>	Yes
9	Ion dynamics and relaxation behavior of NaPF6-doped polymer electrolyte systems	Neelam Srivastava, Manindra Kumar	Journal of Solid State Electrochemistry	2016	1433-0768	<a href="https://link.springer.com/article/10.1007/s10008-016-3147-1">https://link.springer.com/article/10.1007/s10008-016-3147-1</a>	<a href="https://link.springer.com/article/10.1007/s10008-016-3147-1">https://link.springer.com/article/10.1007/s10008-016-3147-1</a>	Yes
10	Core-shell functionalized MWCNT/poly(m-aminophenol) nanocomposite with large dielectric permittivity	Sushil K Verma, Manindra Kumar, Pradip Kar, Arup Choudhury	Polymers for Advanced Technologies	2016	1099-1581	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/pat.3836">https://onlinelibrary.wiley.com/doi/abs/10.1002/pat.3836</a>	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/pat.3836">https://onlinelibrary.wiley.com/doi/abs/10.1002/pat.3836</a>	Yes

	and low dielectric loss							
11	Effect of NaClO <sub>4</sub> concentration on electrolytic behaviour of corn starch film for supercapacitor application	Jagdish Kumar Chauhan, Manindra Kumar, Madhavi Yadav, Tuhina Tiwari, Neelam Srivastava	Ionics	2017	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-017-2136-4">https://link.springer.com/article/10.1007/s11581-017-2136-4</a>	<a href="https://link.springer.com/article/10.1007/s11581-017-2136-4">https://link.springer.com/article/10.1007/s11581-017-2136-4</a>	Yes
12	Wheat starch+NaI: a high conducting environment friendly electrolyte system for energy devices	Madhavi Yadav, Manindra Kumar, Tuhina Tiwari, Neelam Srivastava	Ionics	2017	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-016-1930-8">https://link.springer.com/article/10.1007/s11581-016-1930-8</a>	<a href="https://link.springer.com/article/10.1007/s11581-016-1930-8">https://link.springer.com/article/10.1007/s11581-016-1930-8</a>	Yes
13	Arrowroot+NaI: a low-cost, fast ion conducting eco-friendly polymer electrolyte system	Tuhina Tiwari, Jagdish Kumar Chauhan, Madhavi Yadav, Manindra Kumar, Neelam Srivastava	Ionics	2017	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-017-2028-7">https://link.springer.com/article/10.1007/s11581-017-2028-7</a>	<a href="https://link.springer.com/article/10.1007/s11581-017-2028-7">https://link.springer.com/article/10.1007/s11581-017-2028-7</a>	Yes
14	Electrochemical characterization of NaClO <sub>4</sub>	Madhavi Yadav, Gayatri Nautiyal,	Ionics	2018	1862-0760	<a href="https://link.springer.com/article/10.1007/s11581-018-0000-0">https://link.springer.com/article/10.1007/s11581-018-0000-0</a>	<a href="https://link.springer.com/article/10.1007/s11581-018-0000-0">https://link.springer.com/article/10.1007/s11581-018-0000-0</a>	Yes

	mixed rice starch as a cost-effective and environment-friendly electrolyte	Akanksha Verma, Manindra Kumar, Tuhina Tiwari, Neelam Srivastava				<a href="#">7/s11581-018-2794-x</a>	<a href="#">7/s11581-018-2794-x</a>	
15	Coupled mode surface plasmon resonance sensor: in situ detection of humidity with starch biofilm	Gulab Chand Yadav, Gaurav Sharma, Vivek Singh, Manindra Kumar, Neelam Srivastava, Sushil Kumar, Vinay Gupta	Optical and Quantum Electronics	2018	0306-8919 (Print) 1572-817X (Online)	<a href="https://link.springer.com/article/10.1007/s11082-017-1275-1">https://link.springer.com/article/10.1007/s11082-017-1275-1</a>	<a href="https://link.springer.com/article/10.1007/s11082-017-1275-1">https://link.springer.com/article/10.1007/s11082-017-1275-1</a>	Yes
16	Supercapacitive performance analysis of low cost and environment friendly potato starch based electrolyte system with anodized aluminium and teflon coated	Madhavi Yadav, Manindra Kumar, Neelam Srivastava	Electrochimica Acta	2018	0013-4686	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0013468618315615">https://www.sciencedirect.com/science/article/abs/pii/S0013468618315615</a>	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0013468618315615">https://www.sciencedirect.com/science/article/abs/pii/S0013468618315615</a>	Yes

	carbon cloth as electrode							
17	Study of Arrowroot Starch-Based Polymer Electrolytes and Its Application in MFC	Tuhina Tiwari, Manindra Kumar, Madhavi Yadav, Neelam Srivastava	Starch	2019	0038-9056	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/star.201800313">https://onlinelibrary.wiley.com/doi/abs/10.1002/star.201800313</a>	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/star.201800313">https://onlinelibrary.wiley.com/doi/abs/10.1002/star.201800313</a>	Yes
18	Modifying potato starch by glutaraldehyde and MgCl <sub>2</sub> for developing an economical and environment-friendly electrolyte system	Baby Komal, Madhavi Yadav, Manindra Kumar, Tuhina Tiwari, Neelam Srivastava	e-Polymers	2019	1618-7229	<a href="https://www.degruyter.com/document/doi/10.1515/epoly-2019-0047/html">https://www.degruyter.com/document/doi/10.1515/epoly-2019-0047/html</a>	<a href="https://www.degruyter.com/document/doi/10.1515/epoly-2019-0047/html">https://www.degruyter.com/document/doi/10.1515/epoly-2019-0047/html</a>	Yes
19	NaClO <sub>4</sub> added, corn and arrowroot starch based economical, high conducting electrolyte membranes for flexible energy devices	Jagdish Kumar Chauhan, Dipti Yadav, Madhavi Yadav, Manindra Kumar, Tuhina Tiwari, Neelam Srivastava	SN Applied Sciences	2020	2523-3971	<a href="https://link.springer.com/article/10.1007/s42452-020-2660-0">https://link.springer.com/article/10.1007/s42452-020-2660-0</a>	<a href="https://link.springer.com/article/10.1007/s42452-020-2660-0">https://link.springer.com/article/10.1007/s42452-020-2660-0</a>	Yes
20	Conductivity, Dielectric and Modulus Study	Manindra Kumar,	Recent Innovations in	2021	2405-5212	<a href="https://www.ingen-taconnect.com">https://www.ingen-taconnect.com</a>	<a href="https://www.ingen-taconnect.com">https://www.ingen-taconnect.com</a>	Yes

	of NH <sub>4</sub> PF <sub>6</sub> Based Zwitterionic Polymer Electrolyte	Neelabh Srivastava	Chemical Engineering (Formerly Recent Patents on Chemical Engineering)			<a href="http://com/content/ben/ric/e/2021/000014/0000001/art00011">com/content/ben/ric/e/2021/000014/0000001/art00011</a>	<a href="http://com/content/ben/ric/e/2021/000014/0000001/art00011">com/content/ben/ric/e/2021/000014/0000001/art00011</a>	
21	Impedance and Electric Modulus Spectroscopy of Polycrystalline La 0.5 Sr 0.5 Bi 0.2 Co 0. 4 Fe 0.4 O 3-d Cathode Ceramic for Intermediate Temperature SOFCs	Sunder Singh, Manindra Kumar, Anil Kumar, Deepash Shekhar Saini	Indian Journal of Pure & Applied Physics (IJPAP)	2021	0975-1041	<a href="http://14.139.47.23/index.php/IJPAP/article/view/49705">http://14.139.47.23/index.php/IJPAP/article/view/49705</a>	<a href="http://14.139.47.23/index.php/IJPAP/article/view/49705">http://14.139.47.23/index.php/IJPAP/article/view/49705</a>	Yes

#### 15. Books and chapters in edited volumes/ books published

S.No	Title of the book	Title of the chapter	National /International	Year of Publication	ISBN number	Affiliating institute at the time of publication	Name of the publisher
1	Advances in Multifuncti	Solid Polymer Electrolytes: Overview of materials	National	2017	978-81-929869-4-4	Department of Physics (MMV), Banaras	Ideal Book Publishers and Distributers



	onal Materials					Hindu University, Varanasi- 221005	
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16. Papers in national/international conference proceedings

S.No.	Title of the Proceeding of the conference	Name of the conference	National /International	Year of Publication	ISBN/ISSN Number of the proceeding	Affiliating institute at the time of publication

17. Professional development Programmes, viz Orientation programme, Refresher course, Short term course, Faculty development Programmes

S.No	Year	Title of the Professional Development Programme	Date and Duration (from- to)
1	2020	Teaching Learning Centre, Ramanujan College, University of Delhi, 4 week Induction/Orientation Programme for "Faculties in Universities/Colleges/Institute of Higher Education".	June 26, 2020 - July 24, 2020
2	2021	HRDC- UGC sponsored Refresher Course in "Information and Communication Technology"	Sept. 27, 2021 to Oct. 10, 2021

18. Research project sponsored by government agencies

S.No.	Name of the Principal Investigator	Name of the research project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of project	Status (completed/ongoing)
1	Dr. Manindra Kumar	Development of Potato Starch based flexible electrolyte membrane for the	UGC	10 Lacs	2019	2 Years	ongoing

		energy storage devices.					
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19. Research project sponsored by non-government sources such as industry, corporate houses, international bodies

S.No.	Name of the Principal Investigator	Name of the research project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of project	Status (completed/ongoing)

20. Patents filed/granted

S.No.	Name of Patent filed/granted	Patent number	Year of filling/award/published of patent
1	Electrolysis of starch-based electrolytes	372370	2021
2	Low Cost Electrolyte Membranes for Microbial Fuel Cell Application Synthesized by Complexing Starch (Wheat, Corn and Rice) with Salt	201611006732	2016

21. Collaborative activities with other institutions/ research establishments/ industry for research and academic development

Title of the collaborative activity	Name of the Collaborating agency with contact details	Year of collaboration	Duration	Nature of activity

22. Functional MoUs with institutions/industries in India and abroad for internship, on the job training, project work, student/faculty exchange and collaborative research

Name of the organisation/industry With whom MoU is signed	Year of signing MoU	Duration of MoU	Actual activities Under each MoU Year wise

23. E-content is developed [https://erp.ddugu.ac.in/epathshala\\_content.aspx](https://erp.ddugu.ac.in/epathshala_content.aspx)

i - For e-PG- Pathshala, ii- For CEC (Under Graduate), iii- For SWAYAM, iv- For other MOOCs platform, v- For NPTEL/NMEICT/any other Government Initiatives

Name of the Module developed	Platform on which module is developed	Date of launching e content	Link to the relevant document and facility available in the institution	List of e-content development facility available	Provide link to videos of the media centre and recording facility

24. Consultancy and corporate training-

Consultancy

Name of consultancy project	Consulting/sponsoring agency with contact details	Year	Revenue generated (Rs.)

Corporate training

Title of corporate training program	Agency seeking training with contact details	Year	Revenue generated (Rs.)	Number of trainees

25. Details of Conference/Seminar attended-

Year	Name of the Conference/workshop	International/National/ State	Name of the professional body for which membership fee provided	Amount support (INR)
2009	2nd One Day Conference on "New Trends in Research" Deptt. of Physics, B.H.U, Varanasi	State		

2009	National conference on “Application of Material Science in Service of the Society- Second Series” Deptt. of Chemistry, C.M.P. Degree College, Allahabad	National		
2010	National conference on “Experimental tools for materials science research: State of Art” Deptt. of Physics MMV, BHU, Varanasi	National		
2010	National conference on “ <i>Recent trends in exotic materials</i> ” Sharda University, Greater Noida	National		
2010	Workshop on “ <i>Physical techniques for the investigation of fast ion conducting materials</i> ” The M.S. University of Baroda, Gujarat	National		
2010	<i>3rd One Day Conference on “New Trends in Research”</i> Deptt. of Physics, B.H.U, Varanasi	State		
2011	<i>4th One Day Conference on “New Trends in Research”</i> Deptt. of Physics, B.H.U, Varanasi	State		
2011	“ <i>National Seminar on Recent Trends in Condensed Matter Physics</i> ” Deptt. of Applied Physics, IT-BHU, Varanasi	National		

2011	Workshop on “ <i>Electronic and Ionic Materials and Devices</i> ” Deptt. of Physics, B.H.U	National		
2011	Workshop on “ <i>Writing Research Papers</i> ” Deptt. of Physics, B.H.U	National		
2012	<i>5th One Day Conference on “New Trends in Research”</i> Deptt. of Physics, B.H.U, Varanasi	State		
2012	<i>5th International Conference on Electroactive Polymers Materials and Devices”</i> Department of Physics, B.H.U, Varanasi	International		
2014	<i>International Conference on Science and Engineering of Materials”</i> Sharda University, Greater Noida	International		
2020	One-week National Workshop on “Advanced Physical Tools and Techniques for Materials Characterization” (APTTMC-2020)	National		

26. Any other information: