


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr.	First Name	Tapan	Last Name	Jain	 <p style="text-align: center;">Photograph</p>
Designation		Associate Professor				
School /Dept. Name		University School of Basic & Applied Sciences				
Address:						
Phone No.	Office	011-25302417				
	Residence	(optional)				
	Mobile	9711199574				
Email	1. tapankjain@gmail.com		2. tapan.jain@ipu.ac.in			
Web Page (if any)	http://www.ipu.ac.in/usbas/Associate_Professors.php					
Subjects Taught	NST -102 (Fabrication techniques & characterisation, NST -203, Semiconductor Nanoparticles Nanostructures, NST-107, Elements of material science, NST-156, Scientific computation lab (Matlab), NST-151, 152 M.Tech (Nano Science & Technogy) laboratory, Minor/Major project, Self Study, Summer Training, BA 216 Physico organic chemistry, under graduate chemistry, Ph. D. Course work on MATLAB					
Areas of Interest/Specialization	Nanomedicine [Nanotechnology for Drug Delivery and Imaging (theranostic applications) / Surface science and engineering].					
Experience (in years)	Total	21 years				
	Industry					
	Teaching	17 years				
	Research	21 years (after Ph. D.)				
Educational Qualifications	UG	B.Sc.(Hons) Chemistry (University of Delhi, Delhi) – 1994				
	PG	M.Sc. Chemistry {Specialisation: Physical Chemistry} (University of Delhi, Delhi) - 1996				
	Doctorate	Ph.D. Chemistry (University of Delhi, Delhi) - 2001				

	Any other	Post Doctoral (7 years) at 1. Univ. Of Florida, Gainesville (2001-2003); 2. Univ. Of Nebraska Med. Centre, Omaha (2003-2006); 3. Learner's Research Institute, Biomedical Engineering, Cleveland Clinic, Cleveland (2006-2008)
Research Publications in Journals (last 5 years)	<p>Details should be provided in APA/IEEE format</p> <p>(i) Ankur Sood, Varun Arora, Sadhana Kumari, Ankita Sarkar, S. Senthil Kumaran, Shubhra Chaturvedi, Tapan K. Jain, Garima Agrawal</p> <p>Imaging application and radiosensitivity enhancement of pectin decorated multifunctional magnetic nanoparticles in cancer therapy</p> <p>INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 189, 443-454 (OCT 31 2021)</p> <p>DOI: 10.1016/j.ijbiomac.2021.08.124</p> <p>(ii) Varun Arora, Ankur Sood, Sadhana Kumari, S. Senthil Kumaran, Tapan K. Jain Hydrophobically modified sodium alginate conjugated plasmonic magnetic nanocomposites for drug delivery & magnetic resonance imaging;; <i>Materials Today Communications</i>, Dec. 2020, 25, 101470 ^[SEP]</p> <p>(iii) Sood, Ankur; Arora, Varun; Shah, Jyoti; et al. Kotnala, R. K.; Jain, Tapan K. ^[SEP]</p> <p>Multifunctional gold coated iron oxide core-shell nanoparticles stabilized using thiolated sodium alginate for biomedical applications^[SEP] <i>MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS</i> Volume: 80 Pages: 274-281 Published: NOV 1 2017</p> <p>(iv) Arora, Varun; Sood, Ankur; Shah, Jyoti; et al. Kotnala, R. K.; Jain, Tapan K. Synthesis and characterization of pectin-6-</p>	

aminohexanoic acid-magnetite nanoparticles for drug delivery,^[SEP]*MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS* Volume: 80 Pages: 243-251 Published: NOV 1 2017 ^[SEP]
(v) Varun Arora, Ankur Sood, Jyoti Shah, R.K. Kotnala & **Tapan K. Jain** (2016) Synthesis and characterisation of thiolated pectin stabilized gold coated magnetic nanoparticles,^[SEP]*Materials Chemistry and Physics*, Volume 173, 15 April 2016, Pages 161–167
doi:10.1016/j.matchemphys.2016.01.056 ^[SEP]

Papers Published in
Conference Proceedings
(last 5 years)

- (i) **Tapan K. Jain**, Maram K. Reddy, Marco A. Morales, Diandra L. Leslie-Pelecky and Vinod Labhasetwar. Biodistribution, Clearance, and Biocompatibility of Iron-Oxide Magnetic Nanoparticles in Rats,

34th Annual Meeting of the Controlled Release Society,

July 7 – 11, 2007, Long Beach Convention Center, Long Beach , California

- (ii) Sanjeeb K. Sahoo, Amulya K. Panda, Jayme Horning, **Tapan K. Jain** and Vinod Labhasetwar. Tissue model for in vitro evaluation of anticancer agents. 33rd Annual Meeting & Exposition of the Controlled Release Society, July 22 - 26, 2006, Vienna, Austria.

- (iii) **Tapan K Jain**, Vinod Labhasetwar (Oral presentation)

Multifunctional Iron-oxide Nanoparticles for Drug Delivery and Imaging Applications. APA (Asian Polymer Association) International Congress on Advances in Human Healthcare Systems, Health Care India 2012, February 20 - 23, 2012 Organized by IIT Delhi and Jamia Hamdard

- (iv) **Tapan K Jain** (Oral presentation). Multifunctional Magnetic Nanoparticles for Drug Delivery and Imaging, *Nanotechnology Symposium 2008*, October 3 & 4, 2008, Sullivan University, College of Pharmacy, Louisville, KY, USA

- (v) M.A. Morales, **Tapan Kumar Jain**, V. Labhasetwar, D. L. Leslie-Pelecky. Magnetic Studies of Fe₃O₄ Nanoparticles Coated with Oleic Acid and Pluronic Block

	<p>Copolymer. <i>49th conference on Magnetism and Magnetic Materials</i>, November 7-11, 2004 Jacksonville, Florida, United States.</p> <p>(vi) Tapan Kumar Jain, Shraboni Das, Amarnath Maitra and Dinesh O. Shah Preparation of Doped Inorganic-Organic Hybrid Silica Nanoparticles using Micelles. <i>Abstracts of Papers of The American Chemical Society</i>, 223rd ACS National Meeting, Orlando, FL, United States, April 7-11, 2002, 223: 410-COLL Part 1 APR 7 (2002)</p> <p>(vii) Indrajit Roy, Tapan Kumar Jain and Amarnath Maitra. Nanometer size silica particles encapsulating Glucose Oxidase: a potential glucose sensor. <i>Presented in 13th International symposium on surfactants in solution (SIS-2000)</i>, 2000, Gainesville, Florida, USA.14.</p>			
Books Authored/Book Volume Chapters	<p>1. Susan P Foy, Andrew Stine, Tapan K Jain and Vinod Labhasetwar: Magnetic nanoparticles for Drug Delivery, in 'Methods in Bioengineering: Nanoscale Bioengineering and Nanomedicine'. (Ed. Kaushal Rege, Igor L. Medintz), Artech House, Technology & Engineering, 2009, 123-136.</p> <p>2. Sanjeeb Sahoo, Tapan Jain, Maram Reddy, Vinod Labhasetwar: Nano-sized carriers for drug delivery, in 'Nanobiotechnology', (Ed. Elan Levy), The Humana Press Inc., Totowa, NJ, 2008, 329-348</p>			
No. of Conferences	National	Attended	Organized	
		2		
	International	5		
Research Guidance	Awarded	PG	M. Phil	Doctorate
		10		2
	Undergoing			2

Research Projects	Completed	
	Undergoing	
Awards & Distinctions		
Administrative Assignments Handled		
Association with Professional Bodies		
Any other Achievements		