

FACULTY PROFILE (From 2013 to 2020)



Name	Sanjay K Jain			Date of Birth: 28th May 1959			
Designation	Professor			Date of holding Present Post		12/03/2018, Head; Dept. Pharm. Sci.	
Name of the Department and School	Department of Pharmaceutical Sciences, School of Engineering and Technology (EAT)						
Contact Details	Email : drskjainin@yahoo.com			Mobile: 9425172184			
Additional Responsibility in the university, if any	• Chairman Institute Innovation cell of the University. • Chairman, Council for Industry-Higher Education Council • Chairman, University Intellectual Property Right (Policy making) • Member Secretary, University Ethics Committee • Former Dean, School of Engineering and Technology • Former Member of Academic Performance Committee of the University. • Member of Academic Council of University. • Former Member University Building Committee. • Member of Advisory committee of Sophisticated Instruments of the University. • Chairman, Technical committee, Research and Development of the University • Member of Departmental purchase committee. • Member of Departmental anti ragging committee. • Member of a library committee of the University. • Member of High level steering committee of the University for NAAC. • Member of Institutional Animal Ethical Committee of the University. • Member of Editorial Board of Madhya Bharti Journal published by the University. • Member of Research Advisory Committee of the University. • Member of University Manpower Rationalization Committee of the University. • Member of UTD Games Committee. • Member of Advisory Committee for Academic Affairs of the University. • Member of Grievances and Redressal Cell of the University. • Member of Scientific Instrument Written-Off Committee of the University						
Educational Qualifications (UG onwards)	B. Pharm, M. Pharm. and Ph. D						
Research Area/Specialization	Pharmaceutics						
Awards/ Honors / Fellowship Conferred	• Award for Research excellence by European Institute of Scientific Research, Netherlands 2014. • Department of Science and Technology, Government of India has found and recorded as Rank 3 (Citation Repository on National Level) under subject scheme of Pharmacology and Pharmaceutics with SCOPUS citation domain during academic year 2015-16 • Recipient of Visitor's Award 2018 for Research in the field of Basic and Applied Science at Rashtrapati Bhavan, New Delhi on 2 May, 2018. • Recipient of "Lifetime Achievement Award" on the occasion of MPCST sponsored National Seminar on "Emerging trends in Pharm. Sci: Challenges and Opportunities" on 09 March 2019 at SIPS, Sagar						
Summary of Publications (Number only) From 2013 to 2020	Research Papers	Books	Chapter in Books	Seminars/ Conferences	Projects	Patents (Filed)	Invited lectures delivered
	(48)	(Nil)	(17)	(34)	(3)	(02)	(34)

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Amount in Rs.	Completed/ongoing
1.	Targeted delivery of anticancer drug to the lungs via surface engineered nanocarrier system	M.P. Council of Science and Technology	2013-2015	2.98 Lakh	Completed
2.	The Development of Nanocarriers Based Delivery Systems for the Treatment of Solid Tumor	UGC - One Time Grant	2014-2019	7 Lakh	Completed
3.	Modernization of Pharmaceutical Engineering Laboratory	AICTE-MODROB	2020-2023	17.33334	Ongoing

PUBLICATIONS :
National Publications (Details of Research Papers):

Year (From 2013 to 2020)	(Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)	
	Details (Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)	Impact Factor
1.	A Tiwari, S Saraf, P Panda, G Gour, A Verma, SK Jain. Functionalized nanocomposites for drug targeting to brain. Pharmatimes, February 2018; 50 (2), 56-62.	NA

International Publications (Details of Research Papers):

Year (From 2013 to 2020)	S. N.	Details (Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)	Impact Factor
2013	1.	Ankit Jain, Arvind Gulbake, Satish Shilpi, Ashish Jain, Pooja Hurkat, SK Jain A new horizon in modifications of chitosan: Syntheses and Applications. Critical Reviews™ in Therapeutic Drug Carrier Systems , 30(2), 91–181 (2013)	2.414
	2.	Ashish Jain, Aviral Jain, Arvind Gulbake, Satish Shilpi, Pooja Hurkat, SK Jain Peptide and Protein Delivery Using New Drug Delivery Systems Critical Reviews™ in Therapeutic Drug Carrier Systems , 30(4), 293–329 (2013)	2.414
	3.	Ankit Jain Arvind Gulbake, Ashish Jain, Satish Shilpi, Pooja Hurkat, SK. Jain Dual drug delivery using "Smart" liposomes for triggered Release of anticancer agents. J Nanoparticle Research , 15:1772-5 (2013)	2.127
	4.	A Jain, SK Jain Formulation & Optimization of Temozolomide Nanoparticles by 3 factor 2 Level Factorial Design. Biomatter. Apr-Jun;3(2), 2013. pii: e25102 (2013). doi: 10.4161/biom.25102.	3.716
	5.	Parul Kharya, Ashish Jain, Arvind Gulbake, Satish Shilpi, Ankit Jain, Pooja Hurkat, Subrata Majumdar, SK. Jain . Phenylalanine coupled solid lipid nanoparticles for brain tumor targeting J Nanoparticle Research , 2013, 15(11), 1-12 doi: 10.1007/S11051-013-2022-6.	NA
	6.	A Jain, SK Jain . Engineered chitosan: A potential tool in biomedical applications. International Journal of Biotechnology and Bioengineering Research , 2013; 4(3), 1-4.	4.55
2014	7.	Ankit Jain, Arvind Gulbake, Ashish Jain, Satish Shilpi, Pooja Hurkat, Sushil Kashaw and, S K. Jain . Development and Validation of the HPLC Method for Simultaneous Estimation of Paclitaxel and Topotecan. Journal of Chromatographic Science , 2014 August, 52(7),697–703 doi.org/10.1093/chromsci/bmt101	2.127

	8.	Ruchi Dangi, Pooja Hurkat, Ankit Jain, Satish Shilpi, Ashish Jain, Arvind Gulbake, and SK. Jain Targeting Liver Cancer via ASGP Receptor using 5-FU loaded Surface Modified PLGA Nanoparticles. Journal of Microencapsulation, Early Online: 31(5), 2014, 479-487 (DOI: 10.3109/02652048.2013.879929).	1.763
	9.	NK Jain, M Chaurasia, SK Jain Investigation of Galactosylated Low Molecular Weight Chitosan-Coated Liposomes for Cancer Specific Drug Delivery Tropical Journal of Pharmaceutical Research May 2014; 13 (5): 000-000	0.444
	10.	Mamta Bishnoi, Ankit Jain, Pooja Hurkat, and SK. Jain , Aceclofenac loaded chondroitin sulphate conjugated SLN for effective management of osteoarthritis. Journal of Drug Targeting, 22(9), 2014, 805-812 Early Online: 1–8 (DOI: 10.3109/1061186X.2014.928714)	3.408
	11.	Mayank Shrivastava, Aviral Jain, Arvind Gulbake, Pooja Hurkat, Neeti Jain, R. Vijayraghwan, S K. Jain . Low Density Lipid Nanoparticles for Solid Tumor Targeting. Scientia Pharmaceutica 2014; 82: 873–888.	1.07
2015	12.	A Jain, SK Jain . LIGAND APPENDED BBB TARGETED NANOCARRIERS (LABTNs). Critical Reviews™ in Therapeutic Drug Carrier Systems, 2015, 32(2): 147–178.	2.414
	13.	A Jain, SK Jain . L-valine appended PLGA Nanoparticles for Oral Insulin Delivery. Acta Diabetologica, 2015: 1-14.	3.126
	14.	A Jain, SK Jain . Multipronged, Strategic Delivery of Paclitaxel-Topotecan using Engineered Liposomes in Ovarian Cancer. Drug Development and Industrial Pharmacy, Early Online 2015: 1–14.	2.295
	15.	R Devi, A Jain, P Hurkat, SK Jain . Dual Delivery using lactic acid conjugated SLN for effective management of neurocysticercosis. Pharmaceutical Research, 2015, 32(10), 3137-48; Springer (DOI: 10.1007/s11095-015-1677-3).	3.335
	16.	MB Subudhi, A Jain, A Jain, P Hurkat, A Gulbake, S Shilpi, SK Jain . Eudragit S100 coated citrus pectin nanoparticles for the colon targeting of 5-Fluorouracil. Materials 2015, 8(3): 832-849.	2.467
	17.	A Vyas, A Jain, P Hurkat, A Jain, SK Jain . Targeting of AIDS related encephalopathy using phenylalanine anchored lipidic nanocarrier. Colloids and Surfaces B: Biointerfaces, 2015, 131: 155–161.	3.997
	18.	A Vaidya, S Jain, RK Agrawal, SK Jain Pectin-metronidazole prodrug bearing microspheres for colon targeting Journal of Saudi Chemical Society, 2015, 19: 257–264.	2.456
	19.	A Jain & SK Jain . Colon Targeted Liposomal Systems: Theranostic Potential. Current Molecular Medicine, 2015, 15 (7): 621-633.	2.254
	20.	A Jain and SK Jain . Optimization of chitosan nanoparticles for colon tumors using experimental design methodology. Artificial cells, nanomedicine, and biotechnology, 2015:1-10	3.026
2016	21.	D Bansal, A Gulbake, J Tiwari, and SK Jain . Development of liposomes entrapped in alginate beads for the treatment of colorectal cancer. International Journal of Biological Macromolecules, 2016, 82: 687-695.	3.909
	22.	A Gulbake, A Jain, A Jain, SK Jain . Insight to drug delivery aspects for colorectal cancer.	3.30

		World Journal of Gastroenterology, 2016, 22(2): 582-599.	
	23.	A Kumari, A Jain, P Hurkat, A Verma, SK Jain . Microsponges: a pioneering tool for biomedical applications. Critical Reviews™ in Therapeutic Drug Carrier Systems, 2016, 33(1): 77–105.	2.414
	24.	M Bishnoi, A Jain, P Hurkat, S.K. Jain, Chondroitin sulphate: a focus on osteoarthritis. Glycoconjugate Journal. Oct 1;33(5), 2016: 693-705. DOI: 10.1007/s10719-016-9665-3.	2.45
	25.	A Verma, A Jain, P Hurkat, SK Jain. Transfollicular drug delivery: current perspectives. Research and Reports in Transdermal Drug Delivery, 5, 2016, 1-7 DOI: 10.2147/RRTD.S75809.	
	26.	S Saraf, A Jain, P Hurkat, and SK Jain. Topotecan liposomes (TLs): A visit from molecular to therapeutic platform. Saraf S, Jain A, Hurkat P, Jain SK. Topotecan liposomes: a visit from a molecular to a therapeutic platform. Critical Reviews™ in Therapeutic Drug Carrier Systems. 2016;33(5),401–432	2.414
	27.	A. Jain and S. K. Jain . In Vitro Release Kinetics Model Fitting of Liposomes: An Insight. Chemistry and Physics of Lipids, 2016, 201, 28-40 DOI:10.1016/j.chemphyslip.2016.10.005. 201: 28-40.	2.766
2017	28.	A. Tiwari, A. Jain, A. Verma and Sanjay K. Jain . Exploitable Signaling Pathways for the treatment of Inflammatory Bowel Disease. Current Signal Transduction Therapy, 2017, 12 (2). 76 - 84 (DOI: 10.2174/1574362412666170330145342).	NA
	29.	Ankit Jain, Ankita Tiwari, Amit Verma, and Sanjay K. Jain . Vitamins for cancer prevention and treatment: An Insight. Current Molecular Medicine. 2017, 17, 321-340, DOI 10.2174/1566524018666171205113329.	2.254
2018	30.	Amrita Kumari, Ankit Jain, Pooja Hurkat, Ankita Tiwari, Sanjay K. Jain . Eudragit S100 coated microsponges for colon targeting of prednisolone. Drug Development and Industrial Pharmac., 2018 Jan 3:1-12 DOI: 10.1080/03639045.2017.1420079.	1.883
	31.	Ankit Jain , Romi Kumari , Ankita Tiwari , Amit Verma , Amitha Tripathi , Akanksha Shrivastava , Sanjay K Jain, Nanocarrier Based Advances In Drug Delivery To Tumor: An Overview, Current Drug Targets 2018;19(13):1498-1518. doi: 10.2174/1389450119666180131105822.	3.112
	32.	Ankit Jain, Ankita Tiwari, Amit Verma and Sanjay K. Jain . Ultrasound based triggered drug delivery to tumors. Drug Delivery and Translational Research, 2018 Feb; 8(1):150-164. doi: 10.1007/s13346-017-0448-6.	3.395
	33.	Bivek Chaulagain, Ankit Jain, Ankita Tiwari, Amit Verma, and Sanjay K. Jain . Passive delivery of protein drugs through transdermal route. Artificial Cells, Nanomedicine, and Biotechnology, 2018, 46(Suppl1), 472-487 doi.org/10.1080/21691401.2018.1430695	3.026
	34.	Ankit Jain & Sanjay K. Jain . Stimuli responsive smart liposomes in cancer targeting.	3.112

		Current Drug Target , 2018, 19: 259-270.	
	35.	Ankit Jain and Sanjay K. Jain . Advances in tumor targeted liposomes. Current Molecular Medicine , April 2018, 18 (1), 44-57 DOI: 10.2174/1566524018666180416101522	2.254
	36.	Ankita Tiwari, Shivani Saraf, Amit Verma, Pritish Kumar Panda, Sanjay K Jain . Novel targeting approaches and signaling pathways of colorectal cancer: An insight. World Journal of Gastroenterology , 2018 October 21; 24(39): 4428-4435.	3.30
2019	37.	Sanjay K Jain, Ankit Jain. Development of liposomes using formulation by design: Basics to recent advances. Chemistry and Physics of Lipids . 2019, 244, 104764 doi.org/10.1016/j.chemphyslip.2019.03.017.	2.766
	38.	Amit Verma, Ankit Jain, Ankita Tiwari, Shivani Saraf, Pritish K. Panda, G. P. Agrawal, Sanjay K. Jain . Folate conjugated double liposomes bearing prednisolone and methotrexate for targeting rheumatoid arthritis. Pharmaceutical Research . 2019 Aug 1;36(8):123 doi.org/10.1007/s11095-019-2653-0.	3.42
	39.	Amit Verma, Ankit Jain, Ankita Tiwari, Pritish Kumar Panda, Shivani Saraf, Gajanand Sharma, Omprakash Katore, Sanjay K. Jain. Systematic Optimization of Cationic Surface Engineered Mucoadhesive Vesicles Employing Design of Experiment (DoE): A Preclinical Investigation for the Management of Fungal Keratitis. International Journal of Biological Macromolecules . 2019, 15 July, 133: 1142-1155. doi.org/10.1016/j.ijbiomac.2019.04.118.	3.909
	40.	Pritish K Panda, Amit Verma, Ankit Jain, Ankita Tiwari, Shivani Saraf, Sarjana Raikwar and Sanjay K Jain . Novel strategies for targeting prostate cancer. Current drug delivery , October 2019; 16(8):712-727. DOI: 10.2174/1567201816666190821143805.	2.078
	41.	Ashish Jain, Pooja Hurkat, Anki Jain, Ankit Jain, Abhishek Jain, Sanjay K Jain . Thiolated Polymers: Pharmaceutical Tool in Nasal Drug Delivery of Proteins and Peptides. International Journal of Peptide Research and Therapeutics . 2019 March, 25(1):15-26. doi.org/10.1007/s10989-018-9704-y.	1.132
	42.	R Rajagopalan, Sanjay K Jain , Piyush Trivedi. Synergistic anti-cancer activity of combined 5-fluorouracil and gallic acid-stearylamine conjugate in A431 human squamous carcinoma cell line. Tropical Journal of Pharmaceutical Research . 2019, March, 18 (3):471-477. doi.org/10.4314/tjpr.v18i3.4.	0.569
	43.	Amit Verma, Ankit Jain, Ankita Tiwari, Sanjay K. Jain . Preformulation considerations of Natamycin and development of Natamycin loaded niosomal formulation. Asian Journal of Pharmacy and Pharmacology . 2019, July, 5(5), 1022-1023 doi.org/10.31024/ajpp.2019.5.5.23.	NA
	44.	R Rajagopalan*, Sanjay K Jain , Ankur Kaul, Piyush Trivedi. Biodistribution and pharmacokinetic studies on topically delivered technetium-99m-labeled 5-FU nanogels formulation for management of pre-cancerous skin lesions. Tropical Journal of Pharmaceutical Research , 28, September, 2019; 18 (9): 1977-1983 doi.org/10.4314/tjpr.v18i9. ISSN: 1596-5996 (print); 1596-9827 (electronic).	0.569
2020	45.	Ankita Tiwari, Shivani Saraf, Ankit Jain, Pritish K. Panda and Sanjay K. Jain . Basics to	3.111

	advances in nanotherapy of colorectal cancer. Drug Delivery and Translational Research. 2020 Apr;10(2):319-338 doi.org/10.1007/s13346-019-00680-9	
46.	Ankit Jain, Ankita Tiwari, Amit Verma, Shivani Saraf and Sanjay K. Jain. Combination Cancer Therapy Using Multifunctional Liposomes. Critical Reviews™ in Therapeutic Drug Carrier Systems , 2020, 38 DOI: 10.1615/CritRevTherDrugCarrierSyst.2019026358 (Forthcoming Article).	2.9
47.	Shivani Saraf, Ankit Jain, Ankita Tiwari, Amit Verma, Pritish K. Panda and Sanjay K. Jain. Advances in liposomal drug delivery to cancer: An overview. Journal of Drug Delivery Science and Technology. 2020 Jan 25, 56:101549. https://doi.org/10.1016/j.jddst.2020.101549	2.606

Chapters in Books		
Year (From 2013 to 2020)	<i>(with author(s), title of chapter, title of the book with author name, name of publisher, year of Publication, ISBN)</i>	
1.	Written a chapter entitled "Biodegradable Polymers: Drug Delivery Applications" by Satish Shilpi & Sanjay K. Jain in the Encyclopedia of Biomedical Polymers and Polymeric Biomaterials. Tayler & Francis Group, New York, 2013 . ISBN 1482246112, 9781482246117.	
2.	Written a chapter 9 entitled "Brain targeting using surface functionalized nanocarriers" (Chapter 9) in a book entitled "NanoBioMedicine: Vol.6 (Drug Nanocarriers by Ankit Jain and Sanjay K Jain, edited by: Bhupinder Singh, Natendra Kumar Jain, Om Prakash Katare, Published by Studium Press, LLC, Houston, U.S.A. 2015 , ISBN 1-62-699-050-6, pp. 239-291.	
3.	Written a chapter 14 entitled "Ligand mediated drug targeted liposomes (LMDTLs)" In: "Liposomal Delivery Systems: Advances and Challenges" by Ankit Jain & Sanjay K. Jain, Future Medicine & Future Science, part of Future Science Group, London, UK. DOI: 10.4155/FSEB2013.14.251. January 2016 . ISBN (PDF): 978-1-910419-08-3.	
4.	Written a chapter 8 entitled "P-gp inhibitors: A potential tool to overcome drug resistance in cancer chemotherapy" In: R. Augustine, N. Kalarikkal, O. S. Oluwafemi, K. S. Joshy, S. Thomas. Nanomedicine and Tissue Engineering: State of the Art and Recent Trends by Ankit Jain and Sanjay K Jain (ISBN 9781771881180 - CAT# N11263). Apple Academic Press, CRC Press, a Taylor & Francis Group, Waretown, New Jersey, USA, Pp: 247-283, March 2016	
5.	Written a chapter 4 entitled "Environmentally Responsive Chitosan-Based Nanocarriers (CBNs)" In: Handbook of Polymers for Pharmaceutical Technologies: Biodegradable Polymers by Ankit Jain and Sanjay K Jain, Volume 3, Edited by Vijay Kumar Thakur and Manju Kumari Thakur, Scrivener Publishing, Canada and John Wiley & Sons, NJ, USA, 2015 , Vol 3, ISBN 978-1-119-04142-9, pp 105-125.	
6.	Written a Chapter 1 entitled ". Liposomes in Cancer Therapy" by Ankit Jain & Sanjay K. Jain. In: Guest edited book entitled Nanocarrier Systems for Drug Delivery. Nova Science Publishers, New York, USA, October 2016 , 1-42. ISBN: 978-1-53610-110-2 (eBook).	
7.	Written a chapter 11 entitled "Emulgels: Application potential in drug delivery" by Amit Verma, Ankit Jain, Ankita Tiwari and Sanjay K Jain. In: Functional Biopolymers, Springer International Publishing. DOI- https://doi.org/10.1007/978-3-319-66417-0_11 . 2018 , ISBN: 978-3-319-66417-0.	
8.	Written a chapter 9 entitled "Application potential of engineered liposomes in tumor targeting" by Ankit Jain & Sanjay K. Jain. In: Grumezescu A., editor. Multifunctional systems for combined delivery and diagnostic Elsevier, 2017 , pp. 171-191. ISBN: 978-0-323-52725-5. https://www.elsevier.com/books/multifunctional-systems-for-combined-delivery-biosensing-and-diagnostics/grumezescu/978-0-323-52725-5 .	
9.	Written a chapter 2 entitled "Application potential of polymeric nanoconstructs for colon specific drug delivery" by Ankita Tiwari, Ankit Jain, Amit Verma, Shivani Saraf, Pritish Panda, Gaytri Gour and Sanjay K. Jain. In: Multifunctional Nanocarriers for Contemporary Healthcare Applications. Farhan J Ahmad et al., editors. IGI Global Book Publishing, USA. 2018 , ISBN13: 9781522547815, ISBN10: 1522547819, EISBN13: 9781522547822, DOI: 10.4018/978-1-5225-4781-5.	
10.	Written a chapter 15 entitled "Alginate based composites in drug delivery application" by Ankita Tiwari, Ankit Jain, Amit Verma, Pritish Kumar Panda Sanjay K. Jain. In: Amit Kumar Nayak, editor. Alginate: Versatile Polymer in Biomedical Applications and Therapeutics, Apple Academic Press, USA (a part of CRC Press, USA), Hard April 2019 . Pp:457-482. ISBN: 9781771887823.	

11.	Written a chapter 20 entitled "Stimuli-responsive polysaccharides for colon-targeted drug delivery" by Ankita Tiwari, Ankit Jain, Amit Verma, Sanjay K. Jain. In: Abdel Salam Hamdy Makhlouf and Nedal Y. Abu-Thabit, editors. Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications", Apple Academic Press, USA (a part of CRC Press, USA), October 29, 2018 , eBook pp: 547-566. ISBN: 9780081019962, Hardcover ISBN: 9780081019955.
12.	Written a chapter 4 entitled "Application potential of pectin in drug delivery" by Pritish Kumar Panda, Gaytri Gour, Shivani Saraf, Ankita Tiwari, Amit Verma, Ankit Jain, Sanjay K. Jain in "Natural Polymers for Pharmaceutical Applications", Apple Academic Press, USA (a part of CRC Press, USA), Hard ISBN: 9781771888455, October 2019 , 87-114.
13.	Written a chapter 8 entitled "Locust bean gum in drug delivery application" by Amit Verma, Ankita Tiwari, Pritish Kumar Panda, Shivani Saraf, Ankit Jain and Sanjay K. Jain in "Natural Polysaccharides in Drug Delivery and Biomedical Applications", Academic press. 0128170557, 9780128170557. Jan 2019 .
14.	Written a chapter entitled "Targeting approaches for the diagnosis and treatment of cancer" by Shivani Saraf, Pritish K Panda, Ankita Tiwari, Amit Verma, Sarjana Raikwar, Ankit Jain, Rupal Dubey and Sanjay K. Jain in Frontiers n anti-cancer drug discovery, Bentham Science Publishers. ISBN: 978-1-60805-885-3. Vol 11, Pp 1-34 (34).
15.	Written a chapter entitled "Opportunities in Ultrasonic drug delivery to tumor" by Sarjana Raikwar, Shivani Saraf, Pritish K Panda, Ankita Tiwari, Pooja Bidla, Amit Verma, Ankit Jain and Sanjay K Jain in "Advances and Challenges in Pharmaceutical Technology: Materials, Process Development and Drug Delivery Strategies", 2020, Elsevier. ISBN: 9780128200438 (Accepted).
16.	Written a chapter entitled "Liposomes for advanced drug delivery" by Amit Verma, Ankita Tiwari, Pritish Kumar Panda, Shivani Saraf, Ankit Jain, Sarjana Raikwar, Pooja Bidla and Sanjay K. Jain. in Advanced biopolymeric systems for drug delivery. 2020, Springer. ISBN 978-3-030-46923-8 (Accepted).
17.	Written a chapter 3 entitled "Environmental stimuli-sensitive chitosan nanocarriers in therapeutics" by Sarjana Raikwar, Ankit Jain, Shivani Saraf, Ankita Tiwari, Pritish K Panda and Sanjay K Jain. in Chitosan in biomedical application. Elsevier (USA), April 2020 (Accepted).

National Seminar/Conference/Workshops (Attended)

Year (From 2013 to 2020)	(with topic, date and venue)
2013	1. Topic- Drug delivery to brain: various approaches In National Seminar on "Drug targeting for therapeutic benefits" sponsored by DBT & MPCOST, ADINA Institute of Pharmaceutical Sciences 3rd Feb 2013. 2. Topic- Brain specific drug delivery system: design and development and limitations In National Seminar on "Emerging Trends of Novel Drug Delivery System" held at Rishiraj College of Pharmacy, Indore [M.P.] on 27th Feb, 2013. 3. Topic- Job opportunities in Pharmacy profession In National Seminar on "Pharmacy skill development" held at IPS, Gwalior, (M.P) organized by Indian Pharmaceutical Association and co-sponsored by IPA Indore charitable trust on 21st April, 2013. 4. Topic- Brain specific drug delivery systems In National Seminar on "Emerging Trends in Pharmaceutical and Biotechnology Research Indian Perspective" held at Sagar Institute of Pharmaceutical Sciences, Sagar [M.P.] on 27th Feb, 2013. 5. Topic- Colon: A promising site for drug delivery In National Seminar on "Manufacturing Advances in Pharmaceutical Technology & its applications" held at IES College of Pharmacy, Bhopal, (M.P) 28th September, 2013. 6. Topic- Drug Delivery to Brain: Approaches and Prospects As resource person in two weeks AICTE sponsored Faculty Development Programme (4th to 17th Dec' 2013) for Pharmacy Teachers. at Lakshmi Narain College of Pharmacy, Bhopal, M. P., INDIA on 15th December' 2013. 7. Topic- Approaches for drug targeting to colon in two weeks Faculty Development Programme (3rd – 15th June 2013) on "Drug Delivery Systems: Preformulation to Industrial Development" at Bansal College of Pharmacy, Bhopal on 5th June 2013. 8. Topic- Applications of Novel Drug Delivery Systems for the molecules of herbal origin, Delivered a guest lecture as resource person in two weeks Faculty Development Programme (3rd – 15th June 2013) at Truba College of Pharmacy, Bhopal on 5th June 2013.

	9. Topic- Herbal Formulations: New Approaches for Better Therapeutic Effect in ICMR and MPCST sponsored National Seminar on “Herbal Drug Scene-Prospects and Challenges” held on 9-10 October 2013 at Bhagyoday Tirth Pharmacy College, Sagar MP.
2014	1. Topic- Approaches for drug targeting to colon. Delivered a guest lecture as resource person in two weeks Faculty Refresher Programme (11th Feb to 03rd March’ 2014) for Pharmacy Teachers. at Pt. Ravishankar Shukla University Raipur on 17th February’ 2014. 2. Topic- Drug(s): Today & Tomorrow. Delivered a guest lecture as resource person in two weeks Refresher course (3rd – 15th Dec 2014) at Academic staff college, Dr H S Gour University, SAGAR MP on 13/12/2014.
2015	1. Topic- Colon Targeting of nano delivery system. In an International Pharmaceutical Conference held on “Nanoformulations and Translational Research: Small getting Bigger” on 2-3 Feb 2015 at Department of Pharmaceutical Sciences Babashaheb Bhimrao Ambedkar University, Lucknow UP. 2. Topic: Colon Specific Drug Delivery. Delivered an invited lecturer in at innovation Club of Dr H S Gour University Sagar MP on 5th Dec, 2015. 3. Topic- Dreams to Reality. Delivered a guest lecture as resource person in two weeks Refresher course (1st – 15th Jan 2014) at Academic staff college, Dr. H.S. Gour University, SAGAR MP on 07/01/2015. 4. Topic: Drug targeting to Colon Delivered an invited lecturer on “Science Day” Celebrated by Dr H S Gour University SAGAR MP on 28th Feb 2015 5. Topic: Drug targeting to brain Delivered a guest lecturer in Two days DBT New Delhi sponsored National Seminar on “Trends in Biotechnology Drugs” held at Ravi Shankar College of Pharmacy, Bhopal [M.P.] on 21st March, 2015. 6. Topic: Bioavailability: A tool to predict drug response. In MPCST sponsored National Seminar on “Bioavailability enhancement using novel drug delivery approaches for herbal drugs” held at Bhopal Institute of Technology and Sciences: Pharmacy, Bhopal [M.P.] on 10th April, 2015. 7. Topic- Bioavailability: A tool to predict drug response. Delivered a guest lecture in MPCST sponsored National Seminar on “Bioavailability enhancement using novel drug delivery approaches for herbal drugs” held at Bhopal Institute of Technology and Sciences: Pharmacy, Bhopal [M.P.] on 10th April, 2015.
2017	1. Topic- Nanotechnology enabled site specific drug delivery system to colon. in Chemical Section of 104th Indian Science Congress at Tirupati (Andhra Pradesh) on 5th Feb, 2017 on “Act East Policy and Prospect of Pharmaceutical Development in North East India 2. Topic- An insight to Colon Specific Drug Delivery System. In International Conference INNO PHARM2 on “Bridging innovations in Pharmaceutical, Medical and Biosciences” held at Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.) on 11th Feb 2017. 3. Topic- An Insight to Site Specific Delivery to Colon. in North East Pharmaceutical Convention (NEPC) 2017 held at Guwahati, Assam on 6th and 7th May 2017 4. Topic- An insight to drug targeting approaches in a National Seminar on “Altering Paradigm of Biomaterials in Drug Development” held at United Institute of Pharmacy, Allahabad on 7th October 2017 5. Topic- Potential of Nanoparticles for Colon Targeted Drug Delivery in an International Conference (09-11 Nov 2017) on “Nanotechnology addressing the convergence of materials Science, Biotechnology and Medical Science”, (IC-NACMBM-2017), organized by D.Y. Patil University held at Kohlapur (Maharashtra) on 11th Nov. 2017.
2018	1. Topic- Colon specific drug delivery systems: Industrial prospects and challenges. in 5th National Conference on “Pharma & Allied Industry – PHARMA-CONFEX 2018” held at Ahmedabad Management Association, Ahmedabad on 14th Sept, 2018 2. Topic- Potential of Nanoparticles for Colon Targeted Drug Delivery. in ICMR and GUJCOST sponsored national seminar on” Novel drug delivery system: Unlimited frontiers for lifestyle disorders” held at ITM School of Pharmacy, Vadodara on 26-27 October, 2018.

2019	1. Resource person in PCI sponsored Continuing Education Programme on “Innovation and Emerging Trends in Pharmaceutical Teaching, Learning and Research” from 18/01/2019 to 20/01/2019 at Swami Vivekanand College of Pharmacy, Sagar. 2. National workshop on Research, Innovation and Technology in Higher Education organized by the Department of Higher and Professional, National Institute of Educational Planning and Administration during, Jan 28-Feb 01, 2019 at Goa University. 3. Nanotechnology based drug targeting to colorectal cancer. in National seminar on “Emerging trends in Pharm Sci: Challenges and Opportunities” 09 March 2019 at Sagar Institute of Pharmaceutical Sciences, Sagar. 4. Topic- Colon targeted drug delivery: Challenges and Opportunities in National seminar on “Emerging trends and Innovations in Pharmaceutical Nanotechnology and Nanomedicine” 16-17 March 2019 at Chameli Devi Institute of Pharmacy, Indore 5. Received Certificate of Appreciation for participating in Internship Day held at AICTE Headquarters, New Delhi on 25 August 2019. 6. As a Resource person in the AICTE sponsored QIP short term Course on “Emerging Computational Tools in Drug Design and Discovery (ECTD3)” organized by Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi, 03-09 October 2019.
2020	1. Invited as Chief Guest in National Seminar on “Emerging opportunities in Pharmacovigilance for Healthcare” on 22 January 2020 at Amity University Gwalior. 2. Topic- Bridging the gap between industry and academia. In AICTE sponsored Faculty Development on “Technology Transfer and Entrepreneurship Development: Narrowing the Interface Between Academia-Industries on 23 January 2020 at Technocrats Institute of Technology- Pharmacy, Bhopal. 3. Invited as “Guest of Honour” in Short Term Training Program for Teachers on “Implementation of Green Chemistry and Analytical Techniques to Reconcile Obligation of Drug Discovery and Design” from 03 March to 07 March 2020 in Adina Institute of Pharmaceutical Sciences, Sagar, MP.

International Seminar/Conference/Workshops (Organised)

Year (From 2013 to 2020)	(with topic, date and venue)
2015	International Conference on Industry-Academia:Global Scenerio, 6-7 Feb 2015, Organized by Department of Pharmaceutical Sciences, Dr H S Gour Vishwavidyalaya, SAGAR M.P.
2020	National Workshop on Intellectual Properties Rights:..... 10 Feb 2020, Organized by Department of Pharmaceutical Sciences, Dr H S Gour Vishwavidyalaya, SAGAR M.P.
2020	National Science Day Oration Lecture, 30 Feb 2020, Organized by Dr H S Gour Vishwavidyalaya, SAGAR M.P.
2020	National Conference on “Recent Development in Pharmaceutical Sciences: Academia-Industry Interaction Initiatives, 6-7 March 2020, Organized by Department of Pharmaceutical Sciences, Dr H S Gour Vishwavidyalaya, SAGAR M.P.

No. of Patents Filed (with date, title and other details)

Year (From 2013 to 2020)	Details
1.	Pharmaceutical composition for the treatment of brain tumor and method thereof Indian Patent No.: 334/MUM/2015 (Filed)
2.	Pharmaceutical formulations for the treatment of solid tumor and the method of preparation thereof Indian Patent filed with CSIR – New Delhi (IPU Ref. No.: 0130NF2016 and Application Number: 201711002871, Filed), 2016

No. of Patents Awarded (with title and other details) Till Date

Year (From 2013 to 2020)	Details
1.	Vitamin B12 – Biodegradable micro particulate conjugate carrier systems for peroral delivery of drugs, therapeutic peptides / proteins and vaccines. K B Chalasani, P. V. Diwan, K. V. Raghavan, G. J. Russell-Jones, S. K. Jain and K. K. Rao - CSIR US Patent No. 6, 4 82, 413 Date of Grant: November 19, 2002

2.	Carrier system comprising Vitamin B-12- biodegradable microparticulate conjugates for peroral delivery of drugs, peptide/proteins and vaccines; 2003 PCT patent international application number PCT/IN 01/00027, through CSIR
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Invited Lectures delivered (*Outside University*) with title, date and place:

Year (From 2013 to 2020)	
	1. Delivered a guest lecture on “Drug delivery to brain: various approaches” on in National Seminar on “Drug targeting for therapeutic benefits” sponsored by DBT & MPCOST, ADINA Institute of Pharmaceutical Sciences 3rd Feb 2013.
	2. Delivered a guest lecture on “Brain specific drug delivery system: design and development and limitations” in National Seminar on “Emerging Trends of Novel Drug Delivery System” held at Rishiraj College of Pharmacy, Indore [M.P.] on 27th Feb, 2013.
	3. Delivered a lecturer as resource person on “Job opportunities in Pharmacy profession” in National Seminar on “Pharmacy skill development” held at IPS, Gwalior, (M.P) organized by Indian Pharmaceutical Association and co-sponsored by IPA Indore charitable trust on 21st April, 2013.
	4. Delivered a guest lecturer on “Brain specific drug delivery systems” in National Seminar on “Emerging Trends in Pharmaceutical and Biotechnology Research Indian Perspective” held at Sagar Institute of Pharmaceutical Sciences, Sagar [M.P.] on 27th Feb, 2013.
	5. Delivered a lecturer as resource person on “Colon: A promising site for drug delivery” in National Seminar on “Manufacturing Advances in Pharmaceutical Technology & its applications” held at IES College of Pharmacy, Bhopal, (M.P) 28th September, 2013.
	6. Delivered a guest lecture on “Drug Delivery to Brain: Approaches and Prospects” as resource person in two weeks AICTE sponsored Faculty Development Programme (4th to 17th Dec’ 2013) for Pharmacy Teachers. at Lakshmi Narain College of Pharmacy, Bhopal, M. P., INDIA on 15th December’ 2013.
	7. Delivered a guest lecture as resource person on “Approaches for drug targeting to colon” in two weeks Faculty Development Programme (3rd – 15th June 2013) on “Drug Delivery Systems: Preformulation to Industrial Development” at Bansal College of Pharmacy, Bhopal on 5th June 2013.
	8. Delivered a guest lecture as resource person in two weeks Faculty Development Programme (3rd – 15th June 2013) on “Applications of Novel Drug Delivery Systems for the molecules of herbal origin” at Truba College of Pharmacy, Bhopal on 5th June 2013.
	9. Delivered invited talk on “Herbal Formulations: New Approaches for Better Therapeutic Effect” in ICMR and MPCST sponsored National Seminar on “Herbal Drug Scene-Prospects and Challenges” held on 9-10 October 2013 at Bhagyoday Tirth Pharmacy College, Sagar MP.
	10. Delivered a guest lecture as resource person in two weeks Faculty Refresher Programme (11th Feb to 03rd March’ 2014) for Pharmacy Teachers. at Pt. Ravishankar Shukla University Raipur on 17th February’ 2014. Approaches for drug targeting to colon.
	11. Delivered a guest lecture as resource person in two weeks Refresher course (3rd – 15th Dec 2014) on “Drug(s): Today & Tomorrow” at Academic staff college, Dr H S Gour University, SAGAR MP on 13/12/2014.
	12. Delivered an invited lecturer in at innovation Club of Dr H S Gour University Sagar MP on 5th Dec, 2015. Topic: Colon Specific Drug Delivery
	13. Delivered an invited lecture on “Colon Targeting of nano delivery system” in an International Pharmaceutical Conference held on “Nanoformulations and Translational Research: Small getting Bigger” on 2-3 Feb 2015 at Department of Pharmaceutical Sciences Babashaheb Bhimrao Ambedkar University, Lucknow UP.
	14. Delivered a guest lecture as resource person in two weeks Refresher course (1st – 15th Jan 2014) on “Drug(s): “Dreams to Reality” at Academic staff college, Dr H S Gour University, SAGAR MP on 07/01/2015.
	15. Delivered an invited lecturer on “Science Day” Celebrated by Dr H S Gour University SAGAR MP on 28th Feb 2015 Topic: Drug targeting to Colon

	16. Delivered a guest lecturer in Two days DBT New Delhi sponsored National Seminar on “Trends in Biotechnology Drugs” held at Ravi Shankar College of Pharmacy, Bhopal [M.P.] on 21st March, 2015. Topic: Drug targeting to brain
	17. Delivered a guest lecture on “Bioavailability: A tool to predict drug response” in MPCST sponsored National Seminar on “Bioavailability enhancement using novel drug delivery approaches for herbal drugs” held at Bhopal Institute of Technology and Sciences: Pharmacy, Bhopal [M.P.] on 10th April, 2015.
	18. Delivered a guest lecture in MPCST sponsored National Seminar on “Bioavailability enhancement using novel drug delivery approaches for herbal drugs” held at Bhopal Institute of Technology and Sciences: Pharmacy, Bhopal [M.P.] on 10th April, 2015. Topic: Bioavailability: A tool to predict drug response.
	19. Delivered an invited lecture on “Nanotechnology enabled site specific drug delivery system to colon” in Chemical Section of 104th Indian Science Congress at Tirupati (Andhra Pradesh) on 5th Feb, 2017 on “Act East Policy and Prospect of Pharmaceutical Development in North East India”.
	20. Delivered a key note on “An insight to Colon Specific Drug Delivery System” in International Conference INNO PHARM2 on “Bridging innovations in Pharmaceutical, Medical and Biosciences” held at Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.) on 11th Feb 2017.
	21. Delivered an invited lecture on “An Insight to Site Specific Delivery to Colon” in North East Pharmaceutical Convention (NEPC) 2017 held at Guwahati, Assam on 6th and 7th May 2017.
	22. Delivered a keynote speech on “An insight to drug targeting approaches” in a National Seminar on “Altering Paradigm of Biomaterials in Drug Development” held at United Institute of Pharmacy, Allahabad on 7th October 2017.
	23. Delivered an invited lecture on “Potential of Nanoparticles for Colon Targeted Drug Delivery” in an International Conference (09-11 Nov 2017) on “Nanotechnology addressing the convergence of materials Science, Biotechnology and Medical Science”, (IC-NACMBM-2017), organized by D.Y. Patil University held at Kohlapur (Maharashtra) on 11th Nov. 2017.
	24. Delivered an invited lecture on “Colon specific drug delivery systems: Industrial prospects and challenges” in 5th National Conference on “Pharma & Allied Industry – PHARMA-CONFEX 2018” held at Ahmedabad Management Association, Ahmedabad on 14th Sept, 2018.
	25. Delivered an invited lecture on “Potential of Nanoparticles for Colon Targeted Drug Delivery” in ICMR and GUJCOST sponsored national seminar on “Novel drug delivery system: Unlimited frontiers for lifestyle disorders” held at ITM School of Pharmacy, Vadodara on 26-27 October, 2018.
	26. Resource person in PCI sponsored Continuing Education Programme on “Innovation and Emerging Trends in Pharmaceutical Teaching, Learning and Research” from 18/01/2019 to 20/01/2019 at Swami Vivekanand College of Pharmacy, Sagar.
	27. National workshop on Research, Innovation and Technology in Higher Education organized by the Department of Higher and Professional, National Institute of Educational Planning and Administration during, Jan 28-Feb 01, 2019 at Goa University.
	28. Delivered an invited talk on “Nanotechnology based drug targeting to colorectal cancer” in National seminar on “Emerging trends in Pharm Sci: Challenges and Opportunities” 09 March 2019 at Sagar Institute of Pharmaceutical Sciences, Sagar.
	29. Delivered an invited talk on “Colon targeted drug delivery: Challenges and Opportunities” in National seminar on “Emerging trends and Innovations in Pharmaceutical Nanotechnology and Nanomedicine” 16-17 March 2019 at Chameli Devi Institute of Pharmacy, Indore.
	30. Received Certificate of Appreciation for participating in Internship Day held at AICTE Headquarters, New Delhi on 25 August 2019.
	31. As a Resource person in the AICTE sponsored QIP short term Course on “Emerging Computational Tools in Drug Design and Discovery (ECTD3)” organized by Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (BHU), Varanasi, 03-09 October 2019.
	32. Invited as Chief Guest in National Seminar on “Emerging opportunities in Pharmacovigilance for Healthcare” on 22 January 2020 at Amity University Gwalior.
	33. Delivered an invited talk on “Bridging the gap between industry and academia” in AICTE sponsored Faculty Development on “Technology Transfer and Entrepreneurship Development: Narrowing the

	Interface Between Academia-Industries on 23 January 2020 at Technocrats Institute of Technology-Pharmacy, Bhopal.
	34. Invited as “Guest of Honour” in Short Term Training Program for Teachers on “Implementation of Green Chemistry and Analytical Techniques to Reconcile Obligation of Drug Discovery and Design” from 03 March to 07 March 2020 in Adina Institute of Pharmaceutical Sciences, Sagar, MP.

No. of Ph.D. Awarded:	Total: 23+01 Submitted for award [07 Awarded after 2013]
No. of Ph.D. Scholars working:	05(as guide-05, as co-guide 01)

Memberships in Academic Bodies:

- Head, Department of Pharmaceutical Sciences, Dr. Harisingh Gour Central University since 2018.
- Former Dean, School of Engineering and Technology, Dr. Harisingh Gour Central University (Grade - “A”, accredited by NAAC), Sagar, M. P., INDIA. 2017-2019.
- Chairman, Council of Industry Higher Education Collaboration (CIHEC), Dr. Harisingh Gour Central University (Grade - “A”, accredited by NAAC), Sagar, M. P., INDIA.
- Nominated as a Member of University Council in M.P. Private University Regulatory Commission, Bhopal on 25 Feb 2020.
- UGC Nominee in Biard of Governance, ISF College of Pharmacy, G.T. Road, Ghal Kalan, Moga Punjab affiliated to I.K. Gujral Punjab Technical University, Jalandhar for a period of five years w.e.f. 2019-2020 to 2023-2024.
- UGC Nominee in Biard of Governance, Bombay College of Pharmacy, Mumbai, Maharashtra for 5 years w.e.f. 2019-2020 to 2023-2024.
- Member, Advisory committee for PhD course work, Dr. Harisingh Gour Central University (Grade - “A”, accredited by NAAC), Sagar, M. P., INDIA.
- Chairman, Technical committee, Research and Development, Dr. H.S. Gour, University, Sagar (M.P.) from year 2010.
- Member, Departmental Post Graduate Committee, Department of Pharmaceutical Sciences, Dr. H.S. Gour, University, Sagar (M.P.) from year 2012.
- Member of Board of studies of NIPPER, Ahmedabad from 2020
- Member of Board of studies of Medicaps University, Indore, from 2019
- Former Member of Board of studies of Nurseee Munjee Institte of Managements and Sciences, from 2017 to-2019

Other Academic Achievements :

(i) Membership of Editorial Boards: National/ International (With details of the journal(s) and duration)

- Brand Ambassador of Bentham Science.
- Member of Editorial Board of World Journal of Gastroenterology.
- Editor in chief of a magazine “The Pharmakon”, an annual publication of the Department of Pharmaceutical Sciences, Dr. Hari Singh Gour Vishwavidyalaya, SAGAR [M.P.] India.
- Member of Editorial Board of World Journal of Gastrointestinal Oncology.
- Member of Editorial Board of a Journal Of Pharmaceutics publish from Hindawi publishing corporation, 410 Park Avenue 15th Floor, #287 pmb NewYork, NY10022 USA
- Member of Editorial Board of a “Critical Reviews in Therapeutic Drug Carriers Systems” Published from Begell House, UK.
- Member of Editorial Board of a Asian Journal of Experimental Sciences, published from Dr. Hari Singh Gour Vishwavidyalaya, SAGAR [M.P.] India
- International Journal of Pharmaceutics
- Journal of Controlled Release
- Drug Development and Industrial Pharmacy
- AAPS Pharm. Sci. Tech

- European Journal of Pharmaceutical Sciences
- European Journal of Pharmaceutics and Biopharmaceutics
- Drug Discovery Today
- American Journal of Technology
- American Journal of Drug Delivery
- Indian Drugs
- Indian Journal of Pharmaceutical Sciences
- Molecular Pharmaceutics
- Journal of Pharmaceutics
- International Journal of Pharmaceuticals and Nutritional Sciences
- Bio-interface Research in Applied Chemistry

(ii) Reviewer of the Journal(s) [With details of the journal(s) and duration]

- International Journal of Pharmaceutics
- Journal of Controlled Release
- Drug Development and Industrial Pharmacy
- AAPS Pharm. Sci. Tech
- European Journal of Pharmaceutical Sciences
- European Journal of Pharmaceutics and Biopharmaceutics
- Drug Discovery Today
- American Journal of Technology
- American Journal of Drug Delivery
- Indian Drugs
- Indian Journal of Pharmaceutical Sciences
- Molecular Pharmaceutics
- Journal of Pharmaceutics
- International Journal of Pharmaceuticals and Nutritional Sciences
- Bio-interface Research in Applied Chemistry

(iii) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)

- Member of Academic Council of University.
- Member of Board of studies of various Universities.
- Member of Board of studies of Dept. Pharm. Sci. of the University.
- Member of School board of School of Engg and Technology
- Former member of School board of School of Biological Sciences