Prof. (Smt.) Archna Pandey
Professor
Department of Chemistry,
Dr. Harisingh Gour Central University, Sagar (MP)
Email: **prof.archnapandey@gmail.com**

Year of Ph.D. Award	:	1983
Specialization	:	Physical Chemistry
Specific Area of Research	:	Drug Release Kinetics, Drug Nanoparticles
Teaching Experience	:	36YRS
Research Experience	:	40YRS
Ph. D. Produced /Ongoing	:	21/05
Research Projects completed/Ongoing	:	03/01
Articles /Research apers Published	:	104 (International) 06 (National)
Awards and Honors	:	

Any Other Information

- **Chief Vigilance Officer**, Dr. Harisingh Gour Central University Sagar (M.P) - India- 2011 to 2016.
- **Chief Editor of Madhya Bharti (science)**, Dr. Harisingh Gour Central University Sagar (M.P) - India (Till Date).
- **Director faculty affair**, Dr. Harisingh Gour Central University Sagar (M.P) - India (Till Date)
- **Head**, Department of Chemistry, Dr. Harisingh Gour Central University Sagar (M.P) - India.
- **Chairperson, Boards of studies,** Department of Chemistry, Dr. Harisingh Gour Central University Sagar (M.P) - India.
- **Dean**, School of Chemical science and technology, Dr. Harisingh Gour Central University Sagar (M.P) - India.
- **Nominated Member**, Academic Council of Dr. Harisingh Gour Central University Sagar (M.P) - India 2015, Sagar
- Member, Academic Performance Committee of Dr. Harisingh Gour Central University Sagar (M.P) - India, 10. 2.16, Sagar
- Member of core-committee of State Government Project "Development of Bundelkhand"

- Elected as joint secretary of the Indian Association of Solid State Chemists and Allied Scientists (ISCAS) - 2013.
- Elected as Associate Editor of "Indian Chemical Society" with third highest majority for the year" 2003-2006.
- Elected as Secretary of the "Indian Chemical Society", Sagar.
- Executive Member of the "Indian Chemical Society", Sagar.
- Selected by NAAC for the training.
- Convener of the many Departmental and other University Committees.

1. **Significant Areas of Research:** Synthesis of drug nanoparticles, modelling of drug release nanoparticles

2. Work done by each faculty in the last five years

Name	Qualification	Specialization	Exp. (yrs)	Ph.D. guided	Papers	h Index	I^{10} Index	Citations
Prof.(Smt.) Archna Pandey	Ph.D.	Physical Chemistry	40	21	109	12	17	756

3. Research Projects:

S.N.	Name of the faculty	Designation	Funding Agency	Period	Amount (Rs.)
01.	Prof. (Smt.) Archna Pandey	Professor	MPCST	2015-2017	4.88 lakh

4. Achievements

Collaboration at International and National Level:

International

National Level

4. Patents Granted detail

- Dr. Sandeep Kumar Shukla, Mrs. Archna Pandey. Sustained release of diazepam using poly (lactic-co-glycolic acid) and preparation method thereof. 2022. (published)
- Sandhya Pathak, Sanjay Pathak, Sandeep Shukla, Archna Pandey. Ibandronate chitosan nanoparticles and preparation method thereof. 2022. (Published)

- Sandhya Pathak, Sanjay Pathak, Sandeep Shukla, Archna Pandey. Alendronate nanoparticles and preparation thereof treatment of osteoporosis. 2022. (Published)
- Bharat Patel, Sandeep Shukla, Archna Pandey. Primaquine phosphate loaded chitosan nanoparticles and preparation method thereof. 2022.(Published)

6. **Awards and Honors (International and National level):**

7. **Research Work / Scholars Achievements and Award**

- **Dr. Upadhyay, V. Rao Memorial Award awarded to** Dr. Sandeep Shukla for for the Presentation of Paper in the Analytical & Environment Chemistry Section of the Annual Convention of Chemist- 2015held at NITTTR Bhopal (M.P.).
- **The best poster presentation award awarded to** Dr. Sandeep Shukla **f**or poster presentation in International Seminar on International year of light UNSCO- Dec. 2015 held at Dr. H. S. Gour University, Sagar, (M.P.).
- **The best poster presentation award awarded to** Dr. Sandeep Shukla for paper presentation in 11th National conference on Solid state chemistry and allied areas NCSCA-2019 held at Nagpur during Dec.2019.
- **The best poster presentation award awarded to** Satyendra Kumar Tripathi for paper presentation in online international seminar on current trends in chemical and pharmaceutical sciences (CTCPS-2021) on 20-22 July 2021.
- **The best poster presentation award awarded to** Sandhya Pathak for paper presentation in online international seminar on current trends in chemical and pharmaceutical sciences (CTCPS-2021) on 20-22 July 2021.
- Dr. Sandeep Shukla are approved as technical person for commissioner food and drugs control administration on 3 July 2018.
- Dr. Madhvi Tiwari is **Principal** in high secondary school Makronia Sagar M.P.
- Dr. Jayveer Singh is retired as **Principal** from Government College, U.P.
- Dr. Kamlesh Bilgainya is **Associate Professor** in Bundelkhand University, Jhansi, U.P.
- Dr. Kancha Mishra is Home Maker.
- Dr. Meghna Dubey is **Assistant Professor** in SAGE University Bhopal M.P.
- Dr. Lokesh Rawat is **Scientist** in Sunpharma Gurugram.
- Dr. Mukti Namdev is **Assistant Professor** in Government College Chhindwara.
- Dr. Archna Shukla is **Assistant Professor** in TIT college Bhopal.
- Dr. Sandeep Shukla is **Guest Faculty** in Dr. Harisingh Gour Central University Sagar M.P.
- Dr. Neelu Bhargava is **Principal** in Govt. College Dewas.
- Dr. Sunil Dubey is **Assistant Professor** Govt. college Indore.
- Dr. Richa Khare is **Scientist** in Ajanta pharmaceuticals Mumbai.
- Dr. Jagdeesh Malviya is **Manager** in Lupin Pharma, Bhopal.
- Dr. Ram Prakash is **Scientist** in Mankind Pharma Delhi.

- Dr. Sarvesh Bohre is **Lab Assistant** in Govt. college Budhni.
- Dr. Neeti Nema is **Assistant Professor** in SCMIPS Indore.
- Dr. Nimesh Singh is **DGM** in Quality Flax laboratories (API unit) Midc Mahad, Raigad, Maharashtra.
- Dr. Roli Jain is **Scientist** in Amgen A biopharmaceutical company Atlanta Georgia 30040 USA.
- Dr. Sapna Gupta is home maker in Singapore.

8. Foreign Visits by Faculty

- Selected by the University team for the Award of "Common Wealth Fellowship" in 1996 and 1997.
- Invited to Deliver Lectures in Many Countries such as USA, Japan, Malaysia, Indonesia, Spain, France, Italy, Turkey, South Africa, Ireland, UAE, Australia, Austria, Mexico, Romania and china.
- Attended an International Conference and delivered a talk on "Bio & Nanotechnology (ICBN-18)", Las Vegas, U.S.A. in 2018.
- Chaired Session in Department of Chemistry, University of Washington, Seattle, U.S.A. in 2016.
- Attended an International Conference and delivered a talk on "Kinetic Modeling on Drug Nanoparticles", University of Washington, Seattle, USA, in 2014.
- Chaired a Scientific Session in International Seminar, University of Washington, Seattle, USA, in 2010.

9. Publications and Presentations

National

2017	• National Conference on "Developments in Engineering Chemistry from Fundamentals to Applications", DECFA, 21-22 April, 2017 as a Key Note Speaker, Jai Narain College of Technology and Science Bhopal (M.P.). • Attended an "International Mental Health Day" as a Chief Guest -10th Oct. 2017. • National workshop organized by Department of Education under PMMMNTT on "SPSS and Excel" from 26th December -31st December 2017.
2018	• Faculty Development Program in Department of Education on 31st January 2018. • Attended an International Conference at SVN University, Sagar. • Delivered a talk in HRDC, Dr. Hari Singh Gour Vishwavidyalaya, Sagar on "3rd and 4th Amendment of U.G.C". • Chief Guest "NHRC training inauguration" in Department of Political Science & Public Administration, Dr. Hari Singh Gour Vishwavidyalaya, Sagar.

	• "ISCAS National Symposium on New Trends of Research in Solid State Chemistry and Allied Areas" at ISCAS, Institute, Jammu. • International Conference on "Emerging Trends in Science, Engineering & Management (ETSEM –2018) on February 24th-25th 2018", Alwar, Rajasthan.

International

2017	• 7th Annual International Symposium of Drug Delivery Systems-2017 (SDDS-2017), July 12-14, 2017, China. • Participate and submit your abstract in the "European Drug Delivery and Formulation Summit", 22 - 24 August 2017 Stockholm, Sweden. • 8th World Gene Convention-2017 in Macao, China during November 13-15, 2017.
2018	• Self- assemblies and Directed Assemblies of Molecules and NanoSectionicles on March 6, 7 & 8, 2018, WCSM-2018(Osaka), Japan. • 7thAnnual World Congress of Advanced Materials (WCAM-2018), which will be held on September 13-15, 2018, in Xiamen, China. • 5th Global Conference on Polymer and Composite Materials (PCM 2018), "Hydrochlorothiazide containing PLGA nanoparticles: Design, characterization, in-vitro drug release and release kinetic study", Kitakyushu, Japan.
2019	• A Kintic and Mechanistic Metabolic Study of Antihypertensive Drug Atenolol, 2019, Indonesia

10. Books / Book Chapters:

Books Published	
Year (From 2015 to 2020)	(with author(s), title of the book, name of publisher, year of Publication, ISBN)
2019	• Ram Prakash Aharwal, Sandeep Kumar Shukla and Archna Pandey, Polymeric Nanocarriers for the Dissolution of Anti-Depressants Drugs by using Kinetic Model, International Society of Green, Sustainable Engineering and Management, 2019, 978-93-85073-24-3
2020	• Dr. Sandeep Kumar Shukla, Dr. Ram Prakash Aharwal and Prof. (Smt.) Archna Pandey, Solubility in Nanoscience & Nanotechnology, Excel Publications, 2020, 978-81-944331-3-2 • Dr. Sandeep Kumar Shukla, Dr. Ram Prakash Aharwal and Prof. (Smt.) Archna Pandey, Fundamental Concepts in Nanoscience & Nanotechnology, Excel Publications, 2020, 978-81-944331—8 • Sandeep Kumar Shukla, Archna Pandey. Practical Chemistry for B.Sc. Students.

2022	• Sandeep Kumar Shukla, Archna Pandey. Important Role of Solubility in Nano Drug Delivery ISBN NO: ISBN13: 978-93-85073-15-1 • Sandeep Kumar Shukla, Archna Pandey. Effect of nanomeric structured micelles on kinetic study of CNS Drugs. ISBN 13:978-93-85073-17-5 • General Introduction of Nanoscience and Nanotechnology .ISBN No.978-81-944331-2-5 • Dr. Sandeep Kumar Shukla, Dr. Ram Prakash Aharwal, Dr. Roli Jain and Prof. (Smt.) Archna Pandey, General Introduction of Nanoscience & Nanotechnology, Excel Publications, 2020, 978-81-944331-2-5 • Sandeep Kumar Shukla, Archna Pandey. CNS drugs using nanotechnology: A kinetic study. 2022. 978-93-94894-48-8. • Sandhya Pathak, Sandeep Shukla, Archna Pandey. Raloxifene hydrochloride as osteoporosis treatment. 2022. 978-93-94894-48-8. • Bharat Patel, Sandeep Shukla, Archna Pandey. Polymeric Antimalarial Drugs Nanoparticles as a Bioactive Molecules. 2022. 978-93-94894-48-8. • Chandni Pachouri, Sandeep Shukla, Archna Pandey. Recent approach in polymer-based nanomedicine for tuberculosis treatment. 2022. 978-93-94894-48-8.

11. **Research Paper Publications in Last Five Years:**

S. No.	Title	Name of the Journal & Medium	Date of publication	Citations	Name of Authors
1.	Kinetics and Mechanism of the oxidation of Valine by quinquevalent Vanadium	J. Ind. Council Chem.	2, 68,1995		Neelu Bhargava, A. Pandey, K. Sharma.
2.	Kinetics and mechanism of Vanadium (v) oxidation of Glycine in aqueous medium	Oxidation Communication	18, 178-183. 1995		N. Bhargava, A. Pandey V. K. Sharma.
		1998			
3.	Kinetic studies on the oxidation of Leucine by quinquevalent Vanadium in presence of surfactant	Oxidation Communication	21, 263,1998		Neelu Bhargava. A. Pandey
		1999			
4.	A Kinetic study of Vanadium (v) oxidation of sulpha drugs. Oxidation of sulphamethoxazole	Oxidation Communication	22, 268,1999		Kamlesh Bilgaiyan,Archna Pandey
5.	Kinetics of Oxidation of amino acid by Vanadium (v) in aqueous medium	J. Inst. Chemists (Indian)	71,1999		M. Choubey, S. Dubey and A. Pandey

6.	Kinetics of Oxidation of Glycine by Vanadium (v) in micellar system	Oxidation Communication	22, 293,1999		M. Choubey, A. Pandey

2000

7.	Effect of Sodium Lauryl Sulphate on the oxidation of Glycolic and Lactic acids by N-bromosachharin	Oxidation Communication	23-62,2000		V. K. Sharma, K. Sharma, Praveen F. Hasmi and A. Pandey
8.	Oxidation of L-glutamine by Vanadium (v) in micellar system in the presence of sulphuric acid medium A kinetic study	Oxidation Communication	23, 125,2000		Sunil Dubey, Archna Pandey
9.	Kinetic Oxidative deamination decarboxylation of aminoacid by quinquevalent vanadium in micellar system	Bull. Soc. Kinet. India	23(1), 1-12,2000		Madhvi Choubey, Kusum Sharma Archna Pandey
10.	Mechanistic oxidation of Monocarboxylic di-amino acid by quinquevalent vanadium in the presence of cationic surfactant in Sulphuric acid media	Oxidation Communication	23443,2000		Sunil Dubey, Archna Pandey
11.	A Kinetic study of amino acids in sulphuric acid media by quinquevalent Vanadium in presence of micelles" "Kinetics of Oxidation of amino acid by Vanadium (v) in aqueous medium	J. Inst. Chemists (Indian)	44, 55-59,2000		M. Choubey, S. Dubey and A. Pandey
12.	A Mechanistic oxidation of Tetra – Amino Mono Carboxylic Acid by Quinquevalent vanadium in the presence of cationic surfactant in Sulphuric Acid medium – A Kinetic Appraoch	Oxidation Communication	2345,2000		Sunil Dubey, Archna Pandey
13.	Mechanistic oxidation of Monocarboxylic di-amino acid by quinquevalent vanadium in the presence of cationic surfactant in Sulphuric acid media	Oxidation Communication	23443,2000		Sunil Dubey, Archna Pandey

2001

14.	The mechanism of (L-Arginine) oxidation by quinquevalent Vanadium in presence of cationic surfactant in sulphuric acid media – A Kinetic study	Bull. Polish Acad. Sci.	49 No.2,2001		Sunil Dubey, Archna Pandey

15.	Kinetic and Mechanistic Aspects for the Sulphadizine oxidation by vanadium (v) in sulphuric acid medium	Oxidation Communication	2001		Kamlesh Bilgaiyan Archna Pandey

2003

16.	Kinetics and Mechanism of Oxidation of D-Galactose by Quinolinium Chlorochromate (QCC) in aqeueous Acetic Acid medium	Bull. Polish Acad. Sci.	5135,2003	5	Jai Veer Singh, Kanchan Mishra Archna Pandey
17.	Mechanistic Studies on the Oxidation of Acrylic Acid by Quinolinium Chlorochromate (QCC)	Bull. Polish Acad., Sci.,	3115,2003		Kanchan Mishra Archna Pandey
18.	Kinetics and Mechanism of Oxidation of some unsaturated substrate by Quinolinium Chlorochromate	Bull. Polish Acad. Sci.	5123,2003	4	Mishra, J. V. Singh, A. Pandey
19.	Oxidation of Crotonaldehyde by Quinolinium Chlorochromate (QCC) : A Kinetic Study	Oxidn. Comm.	26(1)52,2003		K. Mishra, J. Singh, G. L. Agrawal A. Pandey
20.	Kinetics and Mechanism of Oxidation of D.Glucose by Aunolinium Chlorochromate (QCC) in Aqueous Acetic Acid medium	Oxidn. Comm.	26(1)72,2003	7	J. V. Singh, K. Mishra, G. L. Agrawal, A. Pandey
21.	Kinetic and Mechanistic study of the Oxidation of D-Mannose by Quinolinium Chlorochromate in Aqueous acetic acid medium	Oxidn. Comm.	26(1)80,2003		J. V. Singh, K. Mishra, A. Pandey
22.	Oxidation of D-fructose with Qunolinium Chlorochromate : A kinetic Approach	Oxidn. Comm.	26(2)235,2003	7	J. V. Singh, K. Mishra, A. Pandey

2004

23.	Kinetics and Mechanism of Oxidation of Alanine by Quinquevalent Vanadium in Micellar system	Oxidn. Comm.,	27(2)396,2004		M. Tiwari, A. Pandey
24.	Kinetics of Oxidation of Crotonaldehyde by Tetraethylammonium Chlorochromate	Oxidn. Comm.	27(4)849,2004	5	J. V. Singh, A. Kumar, K. Mishra, A. Pandey

25.	Kinetics of Oxidation of Sulphur containing Amino Acid by Vanadium (V) in Micellar Media.	Oxidn. Comm	27(4)886,2004		M. namdeo, A. Pandey
26.	Kinetic Study of Oxidation of Crotyl Alcohol by Quinquevalent Vanadium in Micellar Media	J. Madhya Bharti	43, 28,2004		K. Mishra, J. V. Singh, A. Pandey
27.	A Comparative Study on the Kinetics of Oxidation of Unsaturated acids by Quinolinium Chlorochromate	Nat. Acad. Sci. India	LXXVV369,2004		Kanchan Mishra, Jai Veer Singh, Archna Pandey
30.	Relative Reactivities of some unsaturated compounds towards quinolinium chlorochromate in Acetic Acid medium in the presence of perchloric acid	Oxidn. Comm.	27(1), 90,2004		K. Mishra, J. V. Singh, A. Pandey
31.	Kinetics of Oxidation of Proline by V(v) in Micellar system	Oxidn. Comm.	27(1), 133,2004		M. Tiwari, A. Pandey

2006

32.	Kinetics in two phase - observe interaction and identify the binding parameters	Nanotech	3, 98,2006		V. Yadav, A. Pandey
33.	Accepted paper entitled “Kinetics of release of theophylline from sustained-release doses form” in Bulgaria	Oxidn. Comm	2006		Sapna Gupta, Richa Khare,Archna Pandey
34.	Micellar effect on oxidation of a-amino -b-mercapto propionic acid by Vanadium (V) in aqueous acid medium	Madhya Bharti	50, 85,2006		Mukti Namdeo, Y.Rohan, A.Pandey
35.	Relative reactivities of some alcohals towards Vanadium(V) in Micellar Media: A kinetic approach	Madhya Bharti	50,2006		Vineeta Yadav, M.Namdeo, .Rohan, A.Pandey

2009

36.	Mechanism of Dissolution of Delayed Release Formulation of Diclofenac Sodium	Bulgarian J. Chemical Edu.	18,2009	8	R. Jain, A. Pandey, S. S. Pandey

2010

37.	Micellization and synergistic interaction of polymeric nonionic surfactant with cationic surfactant	Oxidation Comm	476, 33,2010	2	N. Nema, N. Singh, A. Pandey
38.	Determination of domperidon in polymeric micellar media by redox method	Inter J. Chem. Tech. Res.,	2, 1069,2010		N. Nema, A. Pandey
39.	The SupraMicellar Solution Of Polymeric Surfactant (PEG400)For The Determination Of Poorly Soluble Antifungal Drugs	Bulgarian Chemical Education	19, 92-102,2010		N. Nema,N.Singh and A.Pandey

2011

40.	Determination of ketoconazole in different formulations by using polymeric surfactants under the influence of ammonium metavanadate	Oxi. Commu	107, 34,2011	2	N. Nema, A. Pandey
41.	In-vitro release kinetic study of domperidon by using water soluble carrier polyvinylpyrrolidone	Nat. Acad. Sci.	294, 81,2011		N. Nema, R. Jain, A. Pandey
42.	A new spectrophotometric method for the determination of hydrochloro-thiazide based on the redox reaction USA	J. Mat. Sci. and Eng.	725-730,2011		N. Nema, S. K. Shukla, R. P. Aharwal, J. P. Malviya

2012

43.	Synergism of two polymeric surfactant and its interaction parameters	Oxi. Comm	155, 2012		R. P. Aharwal, N. Nema, S. K. Shukla, A. Pandey
44.	Quality control studies and validation of spectrophotometric method for estimation of carbamazepine	Oxi. Commu.	35, No.-4, 850-855, 2012		S. K. Shukla, N. Nema, Archna Pandey
45.	Preparation characterization and release of nano-particle for drug delivery	J. Material Sciences and Engineering, J. Mat. Sci. and Eng., USA	A-2, 224-230, 2012		S. K. Shukla, R. P. Aharwal, N. Nema, J. P. Malviya
46.	Synergism of two polymeric surfactant and its interaction parameters	Nat. Acad. Sci.	Ref. No. - 1965.2012		R. P. Aharwal, N. Nema, S. K. Shukla, A. Pandey
47.	Preparation and in-vitro characterization of CNS drug(diazepam)loaded	Nano medicine	Ref-AP-104-13.2012		S. K. Shukla, K. Bilgaiyan and A. Pandey

	implantable PLGA nanoparticles (Revised communicated)				

2013

48.	Composition of mixed Polymeric Surfactant and Cationic Surfactant	Oxidation Comm	36 (4) 1168-1174, 2013		R.P. Ahirwal, N. Nema, S. Shukla, J. Malviya and A. Pandey
49.	Robust Study of Power Up Analysis for Switched PG Networks & Simple Switch Networks	International Journal of Emerging Technologies in Computational and Applied Sciences	5;3, 283-288, 2013		S. S Pandey, A. Pandey

2014

50.	Comparative Kinetic Oxidation of Amino Acids in Micellar Media Oxidation and Communication		37;1,2014		Chobey, Madhvi, Pandey, Archna
51.	Control Drug Release for Poorly Water Soluble Drug a Role of Polymeric Nanoparticle	International Journal of Pharmaceutical Science & Research	5(5) 1-10,2014		Tiwari, Ritu; Ahirwal, Ram Prakash; Shukla, Sandeep, Pandey, Archna
52.	Quality Control Parameters of Sertraline Hydrochloride using UV-Visible Spectrophotometer	International Journal of Scientific and Engineering Research	23-33, 2014		Sahu, S. Ahirwal, R. P., Shukla, S. and Pandey, A
53.	Comparative Kinetic Oxidation of Amino Acids in Micellar Media	Oxidation Communication	37;1, 2014		M. Chobey and A. Pandy
54.	Controlled Drug Release For Poorly Water Soluble Drugs- A Role Of Polymeric Nanoparticles	IJPSR	0975-8232.5(5).1661-70. 2014		R. Tiwari, R. P. Aharwal, S. Shukla and A. Pandey

2015

55.	The targeted delivery of CNS drug across the blood brain barrier: chemical modification of drug or drug nanoparticles	Madhya Bharti research journal	59, 53-61, 2015		Sandeep Kumar Shukla, Ratnesh Das, Roli Jain, Archna Pandey
56.	Quality Control Parameters of Sertraline Hydrochloride in	Oxidation Communication	38, 1349-1354, 2015		Sandeep Kumar Shukla, Archna Pandey

	Pure and dosage from available in Indian market				
57.	Nano suspension formulation to improve the dissolution rate of clonazepam	IJAR	3(4), 588-591, 2015	1	Sandeep Kumar Shukla, Roli Jain,Archna Pandey
58.	Applications of sulfur nanoparticles synthesis and characterization	Waset	2, 230-256, 2015		Sandeep Kumar Shukla, Roli Jain, Soumitra Subodh Pandey, Archna Pandey
59.	Hydrochlorothiazide Containing PLGA Nanoparticles:Design Characterization In-Vitro Drug Release and Release Kinetic Study	Polymer Science Series B	57(6), 645-653 2015	9	Vibha Chourasiya, Sarvesh Bohrey, Archna Pandey
60.	Drug nano-particle; a release kinetics	J. Nanomedi. Nanotech	6(5) 2-6, 2015		Roli Jain, Sandeep Kumar Shukla, Archna Pandey
61.	Controlled Drug Release for Poorly Water Soluble Drugs – A Role of Polymeric Nanoparticles 5(5)	International Journal of Pharmaceutical Sciences and Research	1661-1670, 2015		Tiwari, R.; Aharwal, R. P.; Shukla, S.,Pandey, A
62.	Method Validation for Stability Indicating Method of Related Substance in Active Pharmaceutical Ingredients Dabigatran Etexilate Mesylate by Reverse Phase Chromatography	Journal of Chromatography Separation Techniques	6(2), 1000263(1-10), 2015	17	Dare, M.; Jain, R., Pandey, A
63.	Portland Cement: An Unique Construction Material	Madhya Bharti Research Journal	59, 89-96, 2015		Rai, S. Pandey, A
64.	A Review of Kinetics of Nanoparticulated Delayed Release Formulations	J Nanomed Nanotechnol	0.252778, 2015		R. Jain and A. Panday

65.	Applications of Sulfur Nanoparticles: Synthesis and Characterizations	World Academy of Science, Engineering and Technology	2,7, 2015		S. K. Shukla, R. Jain, S. S. Pande and A. Pandey
66.	Nanocrriers for drug delivery applications: Types ,Method of Preparation and Characterization	Madhya Bharti Journal of Science	59,2,33-40,2015		Sarvesh Bohrey,Vibha Chourasiya,Neeti Nema,A Pandey
67.	Biodegradable Polymeric Nanoparticles :Preparation,Characterization and In-Vitro Drug Release	Madhya Bharti Journal of Science	59,2,41-44,2015		Vibha Chourasiya, Sarvesh Bohrey,Roli Jain,A Pandey

2016

68.	Polymeric Nanoparticles Containing Diazepam: Preparation Optimization CharacterizationIn-Vitro Drug Release and Release Kinetic Study	Nano Convergence	3 (3) 1-7, 2016	61	Bohrey Sarvesh, Chourasiya Vibha, Pandey Archna
69.	Optimization by 23 Factorial Design Characterization and In-Vitro Release Kinetics of Lorazepam Loaded PLGA Nanoparticles Polymer Science Series A	Polymer Science Series A	58(6) 974-984, 2016		Bohrey Sarvesh, Chourasiya Vibha, Pandey Archna
70.	Optimization characterization and in-vitro drug release kinetics of atenolol loaded PLGA nanoparticles using 33 factorial design for oral delivery	Materials Discovery	5, 1–13, 2016	19	Chourasiya Vibha, Bohrey Sarvesh, Archna Pandey
71.	Estimation of anti-inflammatory drugs in pure as well as biodegradable polymeric nanoformulation	Madhya Bharti research journal	40-43, 2016		Tiwari Ritu, Shukla Sandeep Kumar, Pandey Archna

	using UV-Visible s nal; pectrophotometry				
72.	Factorial design based Preparation Optimization Characterization In-Vitro Drug Release studies of Olanzapine loaded PLGA Nanoparticles	Mater Res Express	3, 125403, 2016	3	Bohrey Sarvesh, Chourasiya Vibha, Pandey Archna
73.	Preparation Optimization by 23 Factorial Design Characterization and In-Vitro Release Kinetics of Lorazepam Loaded PLGA Nanoparticles	Polymer Science Series A	58(6), 2016	3	Sarvesh Bohrey, Vibha Chourasiya, Archna Pandey

2017

74.	Polymeric nanoparticles containing ramipril Using biodegradable polymer: preparation Optimisation by 23 factorial design Characterisation and in vitro drug release kinetics	Oxidation Communications	40, No 4 1355–1366, 2017		V. Chourasiya*, S. Bohrey, A. Pandey
75.	Polymeric Nanoparticles Containg Ramipril Using Biodegradable Polymer Characterization And In –Vitro Drug Release Study	nano future	2017		Chourasiya Vibha, Bohrey Sarvesh, Archna Pandey

2018

76.	Synthesis of Sulfur Nanoparticles Characterizations and Applications	ARS- Journal of Applied Research and Social Sciences	5 (23), 2018		Sandeep K Shuklaa, Srushti Gohelb, Archna Pandeyc
77.	Nanonization of CNS Drug by Co-precipitation of	ARS -Journal of Applied Research and Social Sciences	5 (23), 2018		Sandeep K Shuklaa, Srushti Gohelb, Archna Pandeyc

	Carbamazepine with PEG 400/ CTAB Surfactant				
78.	Nano Carrier For Drug Delivery Applications	National Journal of Multidisciplinary Research and Development	3, 937-9432018		Sarvesh Bohrey,Vineeta Parihar and Archna Pandey

2019

79.	Sulphur Nanoparticles Characterization and their Application	Nat. J. Adv. Resh.	5, 1-52019		Parihar Vineeta, Manish Kumar, Archna Pandey
80.	Kinetic Modelling and Release Behavior of PLGA-Loded Nanoparticle Of Anti Malarial Drug Using Dialysis Membrane	J. Nanomedicine And Nanotchnology	2, 1, 123, 2019		Roli Jain, Sandeep Shukla And Archna Pandey
81.	Influence of Ionic Liquids and concentration of red phosphorous on luminescent Cu3P nanocrystals	Journal of Chemical Sciences	Vol. 131, 9, 93, 2019		Yogendra Nath Chouryal, Rahul Kumar Sharma, Debopam Acharjee, Trisit Ganguly, Archna Pandey, Pushpal Ghosh

2020

82.	COVID-19: A Cure and Preventive Options	International Journal of Immunology and Immunotherapy	ISSN: 2378-3672 Vol-7, Issue-I, 29.06.2020		Roli Jain and Archna Pandey
83.	Antimalarial Drugs and Their Nanoparticles-A Societal Impact	Oxidation Communication	43,No.3, 371-393(2020)		Bharat Patel,Satyendra Tripathi,Sandhya Shroti,Sandeep Shukla ,Archna Pandey
84.	Kinetic Approach in Nanotechnology Using Anti-Alzheimer Drug: 21-TH Century	Oxidation Communication	43, 2, 340-348, 2020		SK Tripathi, S. Pathak, S. Shukla, A. Pandey

85.	Immune Response Towards Covid-19 : A Review on Host Body	Journal of Infectious Diseases and Diagnosis	5 ,2020		Nimesh Singh, Bharat Suthar, Abhay Mehta and Archna Pandey
86.	A Review: Strong Immune System and Neutraceutical Ingredients as A Preventive Mecanizm against Covid-19	Alochana Chakra Journal	IX, (3290-3299)2020		Roli Jain, Archana Pandey, Nimesh Singh and Sandeep Shukla
87.	Blood Plasma from survivors of Covid-19: A Nobel and Next Frontier Approach to Fight against Pandemic Corona Virus	Int. J. of Immunology and Immunotherapy	7.045202		Nimesh Singh and Archna Pandey
88.	Spike Protein Based Vaccine and Chemical Drugs: Futuristic weapon to fights against Pandemic Covid-19	Alochana Chakra Journal	2020		Nimesh Singh, , Bharat Suthar and Archna Pandey
89.	A Systemic Review: Structural Mechanic of SARS-COV-2A and Promising Preventive Cure by Phyto Chemicals	Int. J. Medicinal Plants	Vol-7 (I), 22.06.2020		Roli Jain, , Niti Nema, Sandeep Shukla and Archana Pandey
90.	Re-Infection and Immunological effect of Corona Virus: A Detailed Review	Indo Global J of Pharmaceutical Sciences	Vol-10, Issue-2, 2020		Nimesh Sing, Sandeep Shukla and Archna Pandey
91.	Corona Virus: A Article to Identify Nobel Treatment	IJSR	9, 4, 2319-7064, 2020		Nimesh Singh and Archna Pandey
92.	Hydroxycholoroquine: A old drug to fight new pandemic Covid-19	Alochana Chakra Journal	2020		Nimesh Singh ,Sandeep Shukla and Archana Pandey
93.	A Review on Remdesivir: An alternative Antiviral Drug to fight against COVID-19	International Journal of Virology and AIDS	ISSN No. 2469-567X Clin Med 2020		Nimesh Singh, Bharat Suthar, Abhay Mehta, Sandeep Shukla and Archna Pandey

94.	Corona Virus: An Immunological Perspective Review	International Journal of Immunology and Immunotherapy	7, 2020		Nimesh Singh, Bharat Suthar, Abhay Mehta, Neeti Nema and Archana Pandey
95.	Vitamin D: A review and proposed evidence for treatment of COVID-19	Current Research in Nutrition and Food Science	2020		Nimesh Singh, Bharat Suthar, Abhay Mehta, Neeti Nema and Archana Pandey
96.	Nanocarrier Drug Delivery Involves Targeting CNS Drug -A Kinetic Approach	Int. Journal of Scientific and Engineering Research (IJSER)	11,2020		Sandeep Shukla, Roli Jain, Archna Pandey
97.	An Alternative Antiviral Drug to Fight against COVID-19A review on Remdesivir:	International Journal of Virology and AIDS	ISSN: 2469-567X, 2020		Nimesh Singh ,Bharat Sudhar ,Abhay Mehta,Sandeep Shukla and Archana Pandey
98.	Century Drug Release Mechanism of Sparingly Soluble Anti-Inflammatory Drug From PVP Loaded Nanocarrier	Mukt Shabd Journal	43, 2, 340-348, 2020		Niti Nema, Roli Jain, Nimesh Singh, Sandeep Shukla and Archna Pandey
99.	Nanotechnology: An Emerging Field of Osteoporosis Treatment and Kitetic Models For Drug Release Studies -A Review	Studies in Indian place names	2020		Sandhya Pathak,Satyendra Tripathi,Sandeep Shukla,Archna Pandey
100.	Role of Ayurveda in Management of Pandemic Covid-19 in Indian Scenario – A Review	International Journal of Ayurvedic and Herbal Medicine	10:6 (2020) 3864–3873		Sandhya Pathak ,Chandni Pachouri , Bharat Patel , Archna Pandey
101.	Battle against two pandemic covid-19 and tuberculosis	Oxidation communications	43,4,575-585,2020		CH.Pachouri,S.Tripathi,S.Shukla ,A.Pandey
102.	Temperature dependent quantum cutting in	New J. Chem.	2020		Yogendra Nath Chouryal, Rahul Kumar Sharma,

	cubic BaGdF5:Eu3+ nanophosphors				Konstantin V. Ivanovskikh, Aleksey V. Ishchenko, Qiufeng Shi, Vladimir Yu. Ivanov, Sandeep Nigam, Archna Pandey and Pushpal Ghosh
103.	The nano-bio interactions of rare-earth doped BaF2 nanophosphors shape the developmental processes of zebrafish	Biomaterials Science	2020		Yogendra Nath Chouryal, Shubham Nema, Rahul Kumar Sharma, Heera Lal Kewat, Archna Pandey, Pushpal Ghosh and Yogesh Bhargava

2021

104.	Development evaluation and kinetic modelling of memantine loaded PLGA nanoparticles for Alzhemer disease	Oxidation communication	44,2,436-442,2021		S.K.Tripathi,S Pathak, B.Patel, C.Pachouri ,S.Shukla,A.Pandey
105.	Natural immune modulators: boon in fight against pandemic covid-19-A review	Oxidation communication	44,2,273-284,2021		S.Pathak, S. Tripathi, S. Shukla, A.Pandey
106.	Donepezil loaded PLGA nanoparticles, from modified nano-precipitation, an advanced drug delivery system to treat Alzheimer disease	Journal of Physics : conference series	1849 (2021), 012001		S.K.Tripathi, B.Patel, S Pathak, C.Pachouri ,S.Shukla,A.Pandey
107.	Nanocarrier drug delivery involves targeting Central nervous system (cns) drugs: a kinetic Study	Oxidation Communications	44, No 3, 556–565 (2021)		S. K. Shukla, R. P. Aharwal, S. K. Tripathi, S. Pathak, B. Patel, M. Dubey, A. Pandey
108.	Development and characterisation of Raloxifene-loaded soy lecithin – chitosan	Oxidation Communications	44, No 3, 615–624 (2021)		S. Pathak, S. Tripathi, B. Patel, C. Pachouri, S. Shukla, A. Pandey

	Nanoparticles for osteoporosis treatment				
109.	Primaquine phosphate-loaded chitosan Nanoparticles: formulation optimisation to In vitro drug release kinetics study	Oxidation Communications	44, No 3, 603–614 (2021)		B. Patel, S. K. Tripathi, C. Pachouri, S. Pathak, S. Shukla, A. Pandey
110.	Development, characterization and in-vitro release kinetic studies of Ibandronate loaded chitosan nanoparticles for effective management of osteoporosis	International journal of applied pharmaceutics	13(6),2021		S. Pathak, S. P. Vyas, A. Pandey

12. Keynote Addresses and Invited Lectures:

Chairperson in International / National Conferences / Symposia / Seminars / Workshop

- National Science Day Seminar 2021 on the topic of "Novel Antimicrobial Cyclic Decapeptides as Repurposed Drugs and Biophysical Aspect of Their Self-assembly" and organized by Department of Chemistry, Dr. Harisingh Gour Vishwavidyalaya, Sagar, -MP. (Chairpersons)
- Attended a One Day National Webinar entitled "ICT Tools for Chemistry Teachers" and organized by Guru Angad Dev Teaching Center, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malviya National Mission on Tesearchers and Teaching (PMMMNMTT) OF Ministry of Education on 22nd February 2021.
- Delivered a talk in International Webinar on Recent Innovations in Chemical Sciences (RICS-2020) organized by AKS University Satna Department of Chemistry on 18-20 July 2020.
- Delivered an invited lecture entitled "Microwave Spectroscopy" on 11th May 2021 and conducted by SAGE University Bhopal.
- Delivered an invited lecture entitled "Drug Nanoparticles and Their Release Kinetics" at the 2nd Annual Convention of North East (India) Academy in science and Technology (NEAST) and International Seminar on Recent Advance in science and Technology (Virtual), Mizoram during 16-18th Nov. 2020.
- Attended a One Day International Webinar entitled Archaeological evidence related to Ramayan in Dashin Kosal organized by the Center for Study on Holistic Development, Chhattisgarh and Global Encyclopedia of Ramayan, Uttar Pradesh on 26 July 2020.
- Attended the Idea of Teacher and Teaching organized by Ministry of Education Government of India on 5th September 2020.

13. Abstract / poster presented in International / National Conferences / Symposia / Seminars/ Workshop

14. International / National events Organized

- Organized online International Seminar on Current Trends in Chemical and Pharmaceutical Sciences (CTCPS-2021) at Department of Chemistry, Dr. Harisingh Gour Central University Sagar, M. P. on January 20-222, 2021.
- Organized One-week online faculty development program on Drug engineering through computer aided drug design in 13th-17th September at Department of Chemistry, Dr. Harisingh Gour Central University Sagar, M.P.
- Organized National Science day in DHSGU Sagar on 27-28 Feb. 2021.
- Organized National Education Policy in Department of chemistry, Dr. Harisingh Gour Central University Sagar on 21st September 2020.

15. Quality Improvement Programmes of Staff

I am articulating some of the thoughts and actionable points in all these aspects. It is expected that the responsible persons especially Heads of the Departments and Deans of School of Studies will engage themselves in the serious discussion with the faculty members on these points and take appropriate and timely actions on these:

1. Adherence to Academic Calendar: Admissions, conducting classes, attendance of students, registration, examinations (mid- and end-semester), declaration of results, and conferment of degrees in the Convocation should strictly be in accordance with the approved academic calendar.

2. Pedagogy: Pedagogy plays a significant role in promoting quality of critical thinking; quick but quality learning with real-time result to enable students to learn and perform better.

3. Research: We should build a dynamic and pro-active research eco-system in the University. Research should be need and outcome based and should focus on the contemporary issues that our society is confronted with. Research in social sciences may also be on issues like behavioral patterns of the society in response to developments.

4. Use of ICT in Teaching: It is almost established that digital education is a norm of the future. ICT can provide interactive and high quality learning at a level playing field. ICT provides an interactive platform that ensures a student to grasp, share, understand, discuss and practice in the similar way as s/he would be doing in a real-time study in the class.

5. Training & Placement Cell: Vishwavidyalaya should have an appropriate dynamic/ contemporary academic and training mechanism in place. T & P Cell should be committed to provide all possible assistance to the students in their efforts to find employment.

6. Soft Skills: Soft skills (also known as transferable skills, 21st century skills, ―character traits, attitudes and behaviors‖, ―life-changing skills‖) are the attributes that help students adapt new jobs, overcome obstacles, develop productive