

CRITERION III

RESEARCH, INNOVATION AND EXTENSION

Thrust Area of the Research

- Novel, Controlled and Targeted delivery of drugs
- Phytopharmacological evaluation of medicinal plants
- Production of phytopharmaceuticals by tissue culture
- Vaccines, immunomodulators and gene delivery
- Development of the New chemical entities for different activities
- Computer aided drug design and lead identification from commercial databases
- Method development and validation for the formulations by advance analytical technique.
- Protein chemistry
- Proteomics and genomics
- The department has research facilities to undertake research work in all major disciplines in Pharmaceutical Sciences including novel drug delivery system, herbal technology and computer aided drug design. The various sophisticated instruments maintained with modern analytical instruments including UV spectrophotometers, FTIR, HPLC, Particle size analyser, Blood analyser etc are available in the department for the research. Departmental animal house approved by animal ethical committee is well maintained for the *in-vivo* studies. Department has its own library for the literature survey of the scholars. The M.Pharm. students are required to devote two complete semesters for research work. Most of the PhD research work is funded by U.G.C., C.S.I.R., ICMR, DST Inspired fellowship. The department has produced 268 Ph.D.'s. till 2021 and 27 students are currently registered.

Research and Publications

The department now has its very high place and identity in the area of contemporary research which is highly cross cited and referred. Students from the department are well sought, by various pharmaceutical industries coming to the department for campus interview and almost every pass out of the department is with an employment. The potential so harnessed is certainly pride worthy. The department celebrated its alumni meet on 6th and 7th February 2006 as major event of its Golden Jubilee Celebration. It now possesses a wide algorithm of instruments available in house for advanced research in almost every specialization offered.

Presently 27 Ph.D. students are working on various scientific projects as full time registered Ph.D. scholar.

As a part of M. Pharm. Programme every student is required to submit a thesis on the research project completed in third and/or fourth semester about 1647 thesis have been submitted. 268 students have been awarded Ph.D. degree for the research work carried out in the department. The department has contributed about 2030 research papers: 615 in National Journals, 1415 in International Journals. Teachers of the department have published 40 books on professional subjects. Department completed 46 major research projects (M.H.R.D., U.G.C., C.S.I.R., MPCST, DST, DBT etc.). The Department had been sanctioned seven projects under Modernization and Removal of Obsolescence by AICTE, New Delhi and recognition as QIP centre is under active consideration by the AICTE, New Delhi.

The teachers of the department are frequently invited for extension lectures and resource person in workshops, seminars etc. Senior faculties have chaired several scientific sessions in National and International Conferences.

Academic Contribution

- Last 60 years of its existence the department has produced about 2100 B. Pharm graduates, 1047 M. Pharm and 268 PhDs
- Headquarter of Indian Society of Pharmacognosy & publishing its research journal “Indian Journal of Natural Products” (biannually)
- Senior faculty members-Experts & referees for National and International Journals
- Research papers published in National and International Journals- approximately:170 (in last five years)
- Received Rs 36 and 48 lakhs from DST (Govt. of India) under FIST programme in the year 2004 and 2019
- Received Rs 55 lakhs from UGC (New Delhi) under SAP.
- Received Rs. 53.23 lakhs from AICTE under MODROB scheme till 2021

Ph.D. Produced (1965 to 2014)

S. No.	Name of Candidate	Year	Name of Guide	Topic of Ph.D.
1	S.R. Jain	1965	Prof. S. N. Sharma	Studies on Antidiabetic Drugs of Vegetable Origin.
2	A.K. Bhargava	1968	Shri C. S. Chauhan	Phytochemical Studies of Some Aromatic Plants
3	A.S. Sinha	1969	Dr. K. C. Verma	Studies on the Effect of Certain plant Hormones on the Growth and Alkaloidal Contents of <i>Datura innoxia</i> Miller.
4	P.P. Thampi	1969	Prof. S. N. Sharma	The Chemical and Pharmaceutical Investigation of Dashmoolarishta
5	R.E. Rao	1971	Dr. K. C. Verma	Pharmaceutical Studies of <i>Side acuta</i> Burn
6	A. Kar	1971	Shri C.S.Chauhan	Biochemical Studies on Some Medicinally Active Animal Fats.
7	C.K. Kokate	1972	Dr.K.C.Varma	Pharmacognostical, Pharmacological and Microbiological Studies of Rhizomes of Some <i>Cyperus</i> Species.
8	P.G. Shrotriya	1972	Prof.S.N.Sharma	Fabrication of Sustained Release Dosages Forms of Choramphenicol and its Biopharmaceutics.
9	Vijay Kumar	1972	Dr.K.C.Varma	Phytochemical and Pharmacological Investigation of Some IPOMOEAE Species
10	Vinod Dixit	1975	Dr.K.C.Varma	Studies on Essential Oils of Rhizomes of <i>Hedychium coronarium</i> Koeing and <i>Hedychium spicatum</i> Koeing
11	P. Ramanujam	1975	Prof.S.N.Sharma	Synthesis and Selected Pharmacology of some Anthranilic Acid Analogues
12	S.K. Khanna	1975	Prof.S.N.Sharma	Fabrication and Formulation studies of Antidiabetic Drugs.
13	K. Vishwanath	1976	Prof.S.N.Sharma	Fabrication, Formulation and Evaluation of Some Antihistamines
14	D.V. Kohli	1977	Shri C.S.Chauhan	Studies on Some Animal Fats
15	N.K. Jain	1978	Shri C.S.Chauhan	Microbiological Contamination in Oral Drugs –Tablet Form
16	A.K. Shukla	1979	Prof.K.C.Varma	Microencapsulation and Relevant Formulation Studies of Some Pharmaceuticals
17	V.B. Mathur	1979	Prof.K.C.Varma	Bioavailability Studies on Some Oral Antidiabetic Drugs

18	A.K. Omay	1980	Prof.K.C.Varma	Bioavailability of Antibiotics in combination with Vitamins
19	Arun K. Sharma	1980	ShriC.S.Chauhan	Photochemical Study of Minor Sources of Unutilized Oil of <i>Pistacia integerrima</i> Stewart
20	S.C. Chaturvedi	1980	Dr.V.K.Dixit	Chemical,Antimicrobial and Pharmacological Studies of Some Mannich Bases
21	Shri Hari Mishra	1980	Dr. V. K. Dixit	Studies on Some Zingiberaceous Rhizomes
22	Y. Awadhoot	1980	Prof.K.C.Varma	Pharmacognostical and Phytochemical Studies on Some Medicinal Plants-Leaves of <i>Mitrogyna parvifolie</i> (Roxb) Korth.
23	P.S. Chauhan	1981	Prof.K.C.Varma	Fabrication,Formulation and Evaluation of Implants of Antifertility Hormones
24	S.B. Joshi	1981	Prof.K.C.Varma	Studies on Seed Gums of Some <i>Crotalaria</i> Species
25	Pradeep Mishra	1982	Shri C.S. Chauhan	Phytochemical,Pharmacological and Microbiological Investigation of Fruits of Some Aromatic Plants.
26	Rajeev Dubey	1983	Dr.D.D. Santani	Studies on Correlation of the Dielectric Constant with Formulation
27	Smt. Anshu Tewari	1984	Dr.V.K.Dixit & Dr.B.N.Mehrotra	Pharmacognostic Investigation of Some Biologically Active Plants
28	D.K. Chowdhury	1984	ShriR.L.Khare & Dr.D.D.Santani	Fabrication Formulation and Evaluation Studies on Prolonged Action Dosages Forms of Some Drugs
29	Meenakshi Bajpai	1985	Prof.K.C.Varma & Prof. S.N.Sharma	Physicochemical Properties of Certain Drugs and their Dosages Forms
30	Ajay K. Saluja	1985	Dr. D. D .Santani	Phytochemical and Pharmacological Investigation on Medicinal Plants With Special References to Fertility Control.
31	S.P. Vyas	1985	Dr.V.K.Dixit	Studies on Release Pattern and Stability of Some Drugs with Polymers.
32	M.D. Kharya	1985	Prof. K.C. Varma	Effects of Fertilizers and Plant Hormones on the Volatile Oil Content of Some Aromatic Plants
33	Jinendra K. Jain	1986	Dr.V.K. Dixit	Photochemical and Pharmaceutical Studies on Some Gums and their Derivatives
34	Alok K. Mishra	1986	Shri R.K.Upadhyay	Fabrication and Evaluation of Some Implants with Emphasis on Contraceptive Hormones and Antibiotics

35	G.P. Agrawal	1987	Prof.K.C.Varma	Fabrication and Formulation of Tranquillizers
36	T.R. Saini	1987	Prof.S.N.Sharma	Microencapsulation and Formulation Studies of Some Therapeutic Agents
37	A.K. Pathak	1987	Prof.V.K.Dixit	Phytochemical & Pharmacological Studies of Medicinal Plants Compositae.
38	R.K. Gupta	1989	(Dr.D.D. Santani & Dr.J.Singh	Phytochemical & Preliminary Pharmacological Investigation on Some <i>Astragalus</i> Species
39	Meena Tripathi	1989	Dr.D.V.Kohli	Synthesis & Evaluation of Some Biosurfactants
40	Alok Dhawan	1989	Dr.K.C.Varma	Controlled Drug Delivery and Targeting
41	R.K. Agrawal	1990	Dr.P.Mishra	Studies on Some Derivatives of Gums
42	Subhas K. Pande	1991	Prof.V.K.Dixit & Dr.S.P.Vyas	Designing of Systemic Site Specific Formulation of Some Drugs
43	Avatar Chand Rana	1991	Dr.D.D.Santani	Medical Plants with special Reference to their use in Fertility Control
44	Sachin Saksena	1992	Prof.V.K.Dixit	Investigation of the Seeds of <i>Mucuna pruriens</i> Bakers
45	Mushir Muzaffer	1992	Prof.K.C.Varma	Tissue Culture Studies on Some Medicinal Plants
46	Arvind Kumar Jha	1992	Dr.P.Mishra	Phytochemical & Pharmacological Investigation of Some Indigenous Medicinal Plants
47	Sanjay K. Jain	1992	Prof.V. K .Dixit & Dr. S. P. Vyas	Development of Polymeric Transdermal Drug Delivery System of Some Drugs
48	Murlidhar Khubchandani	1992	Prof.S.N.Sharma	Formulation & Product Development of Suspensions semisolids & Aerosols
49	O.P. Katare	1992	Prof.V.K.Dixit & Dr.S.P.Vyas	Studies on Target Oriented Liposomal Formulations of Some Drugs
50	Abhay K. Singhai	1992	Prof.V.K.Dixit	Investigation Of Some Antifertility Drugs Of Plant Origin.
51	Ashok K. Shakya	1992	Dr.P.Mishra & Dr. G.K. Patnayak	Synthesis and Pharmacological Evaluation of Some 1,3,4-Thiadiazole Derivatives
52	Shailendra Saraf	1993	Prof.V.K.Dixit	Investigation On Some Indigenous Plants Useful In Liver Infection
53	Naresh Talwar	1993	Prof. N.K.Jain & Dr.S.P.Vyas	Erythrocyte based Delivery System of Some Bioactive Agents

54	Sahadeo K. Yadav	1993	Prof.V.K. Dixit	Formulation & Evaluation Of Some Drugs In Solids Dispersion
55	Deepak K. Thassu	1993	Prof. S. P. Vyas	Preparation And Evaluation Of Transdermal Drug Delivery Systems Using Prodrug Concept
56	Akhilesh K. Singhai	1993	Prof. N. K. Jain	Studies on the solubilization, formulation and evaluations of some drugs
57	C. P. Jain	1994	Dr. S. P. Vyas	Niosmal Delivery System For Some Drugs
58	Jayant S. Karajgi	1994	Prof.N.K.Jain & Dr. S.P. Vyas	Studies On Some Sites Specific Colloidal Drug Delivery System
59	J.G. Asthana	1994	Independent	Synthesis And Evaluation Of Some Acidic Nonsteroidal Compounds As Anti- Inflammatory Agents
60	Swarn Lata Soni	1994	Prof.V.K.Dixit	Penetration Enhancement Of Transdermal Delivery Of Some Drugs
61	Sajay Kumar Jain	1994	Dr.M.D.Kharya	Biotechnological Approach For The Production Of Bioactive Compound From Callus & Cell Cultures Of Some Medicinal Plants
62	Anvita Dube	1994	Prof.V.K.Dixit & Prof.B.K.Shrivastava	Histopathological Studies On Effect Of Some Indigenous Drugs
63	Sunil Kumar Jain	1995	Dr.S.P.Vyas	Magnetically Guided Targeting Of Some Drugs Using Cellular Carrier System
64	Seema Bhatnagar	1995	Dr. S. P. Vyas	Development Characterization And Evaluation Of Pressure Sensitive Active Polymer Based Hypodermal Contraceptive System
65	K.K. Vishwakarma	1996	Dr. D. V. Kohli	Designing Of Some Drugs Through Conjection Method And Their Evaluation
66	Ranjeet Singh	1997	Dr.S.P.Vyas	Liposomal Tropical Drug Delivery System For Controlled Localized And Systemic Delivery Preparation Charaterisation And Evaluation
67	J.S. Dangi	1997	Prof.V.K.Dixit	Preparation And Characterisation Of Mixed Micelle Based System For Some Poorly Absorbable Drugs
68	Sushma Nakhre	1997	Prof.S.P.Vyas	Development And Characterisation Of Liquid Membering Based Theraupeutic Systems Of Some Drugs

69	Mukul Tailang	1997	Dr.M.D.Kharya	Mutation Induced Production Of Bioactive Compounds From Callus And Culture Of <i>Glycyrihiza glabra</i>
70	Subhni Awasthi	1998	Prof.S.P.Vyas	Development And Characterisation Of Estimuli Sensitive Polymer Based Hypodermal System(S) Of Some Drugs
71	Sandeep Jain	1998	Dr.P.Mishra	Search For Some Novel 1,3,4-Oxadiazole Derivative For Potential Biological Activities
72	Sanjay Jain	1999	Prof.N.K.Jain	Erythrocyte Based Targeting Of Some Bioactive Agents
73	Ajay Jay Singh Khopade	2000	Prof.N.K.Jain	Multiple Emulsion For Controlled And Targeted Delivery Of Some Bio Active Agents
74	N. Venkateshan	2000	Prof.S.P.Vyas	Development And Characterisation Of System For Oral Immunization
75	Vikas Jaitely	2000	Prof.S.P.Vyas	Development And Characterisation Of Supramolecular Biovectors For Drug Targeting
76	Parijat Kanaujia	2000	Prof.S.P.Vyas	Development Of Vesicular Systems Therapeutic Enzyme Immobilization
77	Prabhat Ranjan Mishra	2001	Prof.N.K.Jain	Engineered Erythrocytes As A Carrier Of Some Bioactive
78	Anoop K.Upadhyay	2001	Prof.V.K.Dixit	Development, Characterization And Evaluation Of Liposomal Contraceptive System
79	Satish K. Nayak	2001	Prof.V.K.Dixit	Studies On Some Indigenous Immunomodulators Of Herbal Origin.
80	P. Srinath	2001	Prof.S.P.Vyas	Development And Characterisation Of Phospholipid Based Drug Carrier System For Indomethacin And Terbutaline Sulphate
81	Alok Namdeo	2002	Prof.N.K.Jain	Pharmaco. Some Based Delivery Of Some Cardiovascular Agents
82	Vaibhav Sihorkar	2002	Prof. S.P.Vyas	Development And Characterization Of Engineered Vesicular Construct For Bio Film Targeting
83	Sanmati K. Jain	2002	Prof.P.Mishra	Search Of Some Newer 1,3,4 Thiadiazole Derivatives For Potential Biological Activities
84	Smt.Surekha Khopade	2002	Prof.N.K.Jain	Formulation Of Aqueous Injection Of Some Water Insoluble Drugs

85	Ms Preeti Venugopalan	2002	Prof.S.P.Vyas	Development And Characterization Of Delivery Systems For Oral Administration Of Some Peptidal Drugs
86	Pawan K. Dubey	2003	Prof.V.K.Dixit	Investigation On Potential Of Cell Immobilization Technique For Biotransformation Biosynthesis Of Therapeutically Important Photopharmaceuticals
87	Ashutosh Mishra	2003	DR. R.K. AGRAWAL	Synthesis and Evaluation of Biodrugs of selected Non Steroidal Anti-inflammatory drugs for Analgesis & Anti-Inflammatory activities
88	Paramjeet Singh	2004	Prof.S.P.Vyas	Colloidal Carrier Based Adjuvant(S) For Mucosal Immunization, Development And Characterization
89	Pushpendra K. Tripathi	2004	Prof. N. K. Jain	Dendrimer based delivery of some anti cancer and anti fungal agents
90	Sadhana P. Gupta	2004	Dr.S. K. Jain	Fabrication, Formulation & Evaluation Of Transdermal Drug Delivery System Of Some Antihyper-Tensive Drugs
91	Ashoke V.R. Bhosle	2004	Prof.G.P Agrawal and Prof P. Mishra	Prodrugs of some nonsteroidal Antiinflammatory:synthesis, formulation and evaluation of oral dosage forms
92	Sunil Kumar Kumhar	2004	Prof G.P Agrawal and Prof Ramesh Chandra(Vice Chancellor, B.U Jhansi)	Proniosomal transdermal Drug Delivery system of Estradiol, Ethinyl estradiol and levonorgestral for contraception and hormone replacement therapy.
93	Shaym Sundir Pancholi	2005	Prof.G.P.Agrawal	Preparation And Characterization Of Fast Dissolution Dosage Form Of Some Poorly Soluble Drugs
94	Kishore Babu Chalasani	2005	Dr.S.K.Jain& Dr. P.V.Diwan	Novel Ligand Coupled Nano Constructs For The Peroral Delivery Of Proteins.
95	Subheet K. Jain	2005	Prof.N.K.Jain	Novel Vesicular Approaches For Transdermal Delivery of Some Bioactive Agents
96	Umesh K. Jain	2005	Prof.V.K.Dixit	Development Of Quality Control Methods For Some Ayurvedic Formulations
97	Prabakaran D.	2005	Prof.S.P.Vyas	Osmotically Regulated Systems For Multi Drug Controlled Oral Administration

98	R.B. Uma Maheshwari	2005	Prof.N.K.Jain	Formulation and Performance Evaluation of Novel Drug Delivery Systems for the Treatment of <i>Helicobacter pylori</i>
99	Umesh K Patil	2005	Prof. V. K. Dixit	Development and standarization of herbal formulation for some central nervous system active drugs
100	Dheeraj Kumar Ahirwar	2005	Prof. M. D. Kharya	Evaluation of antifertility activity of <i>Trigonella foenum gracecum</i> (Fenugreek) seeds
101	Dipankar Bhadra	2005	Prof. N. K. Jain	Pegylated targeted nanoparticulate system for delivery of some anti malarial bioactives
102	Vivek Mishra	2005	Prof. S. P. Vyas	Development and Characterization of Fusogenic Vesicular Systems for Topical Administration of Bioactives
103	Amit Rawat	2005	Prof.S.P.Vyas	Carrier Construct(S) for Cellular Targeted Drug Delivery Development and Characterization.
104	Abhay Singh Chouhan	2005	Prof.N.K.Jain & Dr.P.V.Diwan	Development and Optimization of Engineered Dendrimer Nanoconstruct for Controlled Delivery of Some Drugs.
105	Praveen K. Dubey	2005	Prof.S.P.Vyas	Development and Characterization of Biochemical Based Strategies for Tumor Targeting
106	Swati Rawat	2005	Dr.S.K.Jain	Solubility Enhancement of Some Cox-2 Inhibitors
107	Om Silakari	2005	Prof.D.V.Kohli & Prof. S.C.Chaturvedi	Molecular Modeling of Some Non Steroidal Anti inflammatory Agents: Synthesis and Evaluation
108	Mr Deepankar Bhadra	2005	Prof. N. K. Jain	Pegylated Targeted Nanoparticulate Syatem for Delivery of some Antimalarial Bioactives
109	Sanyog Jain	2006	Prof.S. P. Vyas	Novel Carrier based strategies for non-parental Immunization Development and characterization
110	K. S. Jagannathan	2006	Prof. S.P. Vyas	Development & Characterization of Novel Delivery System(s) For Mucosal Vaccination Through Nasal Route
111	Govind Rajan	2006	Prof. M.D. Kharya	Evaluation of Certain Herbs for Their Haemopoietic Potential
112	Shailendra Lariya	2006	Dr. A K Singhai	Quality Control Approaches for some Aurvedic Cosmetics Formulations

113	Ku.Sulekha Bhadra	2006	Prof. G.P.Agrawal	Pegylated hydrogels for the treatment of rheumatoid arthritis
114	Ram Kumar Roy	2006	Prof. V.K. Dixit	Development and Performance Evaluation of some Herbal Formulations for Hair Growth
115	Mrs. Meera Sumanth	2006	Dr. A.C.Rana	Pharmacological Screening of some Medicinal Plants for Heatoprotective Actevity
116	Arun Kumar	2006	Prof P.Mishra	Synthesis & Biological Activates of Substituted 1,2,4, Thiadiazoles & 1,2,4 Dithizoles
117	Ku. Vandna Soni	2006	Prof. D.V.Kohli	Delivery of some Anticancer Drug to the Brain
118	Mueen Ahmad K.K.	2006	Dr. A.C.Rana	Phytochemical and Pharmacological Investigation of some Medicinal Plant for Cardiovascular Property
119	Navneet Agrawal	2006	Prof P.Mishra	Synthesis and Evaluation of Substituted Semicarbazenes for Central Nervous System Activity
120	Ku. Shikha Agrawal	2006	Prof. G.P.Agrawal	A Study on Solubilization of some Water Insoluble Drugs for Parenteral Formulations
121	Ravindra Yasvant Rao Patil	2006	Prof. M.D. Kharya	Management of Respiratory Allegric Manifestations Through Herbs
122	Sunil Kumar Jain	2006	Prof. G.P. Agrawal	A Potential Novel Approach for the Management of type II Diabetes Mellitus and Obesity
123	Manish Kumar Chourasiya	2006	Dr.S.K. Jain	Development and Characterization of New Drug Delivery System for effective Management Of Amebiasis
124	Bal Krishna Dubey	2006	Prof. V.K. Dixit	Preparation & Characterization of Solid Lipid Nanospherers
125	N. P. Yadav	2007	Pro. V. K. Dixit	Development and standarization of some antidiabetic herbal formulation
126	Anil K. Shrivastava	2007	Prof. S. K. Jain and Dr. R. K. Agrawal	Chemical derivatization of some gums for pharmaceutical purpose
127	Papiya Bigoniya	2007	Dr. A. C. Rana	Pharmacological and phytochemical investigation of <i>Wrightia tinctoria</i> and <i>Euphorbia nerifolia</i>
128	Mr Rajesh Singh Pawar	2007	Dr. A. K. Singhai	Screening of some Plants for Erythropoietic Activity

129	Ku. Meenkshi Garg	2007	Prof. N. K. Jain Co. Sup. Prof. G. P. Agrawal	Sustained and Targeted delivery of Anti HIV agents using vesicular carrier system
130	Mr. S. Kiran Babu	2007	Dr. A. C. Rana, Co.Sup. Prof. M. D. Kharya & Dr. Goutam Palit	Effect of <i>Ocimum sanctum</i> and <i>Evolvulus alsinoides</i> on stress induced Behavioral and biochemical change in rodents
131	Mr. P. Vijay Kumar	2007	Prof. N. K. Jain	Dendritic architecture for the delivery of some anti-tuberculosis bioactive
132	Mr. Hemant Kumar Jain	2007	Dr. R.K. Agrawal	Studies on some novel heterocyclic compounds for anti-inflammatory activity
133	Mr. Mohan Lal Kori	2007	Prof. V.K. Dixit	Phytosomes of some herbal constituents preparation and characterization
134	Mrs. Varsha Kashaw	2007	Prof. Pradeep Mishra	Synthesis biological evaluation and Qsar analysis of some novel Quinazolin 4 (3H)-Ones
135	Mr. H B Agashe	2008	Prof N.K. Jain	Novel Poly (propylene imine) Dendrimer based Molecular Containers for Delivery of some Antimalarial Bioactives
136	Mr. Shahi Bhoosan Tiwari	2008	Prof. D. V. Kohli	Molecular Modelling Synthesis and Biologicval Evaluation of some Dopamine Receptor Binding Agents.
137	Mr. Sunil Mahor	2008	Prof S. P. Vyas	Supramolecular Nanoconstructs Based Immunization Strategies: Development and Charecterization
138	Ku Rinki Jain	2008	Prof.V. K. Dixit	Studies for Phytopharmaceuticals Production Using Tissue Culture Technique
139	Mr. Sai Kishore Singh	2008	Prof. V. K. Dixit	Approach for Standardization of Polyherbal Antidiabetic Formulation of Indian Market
140	Mr. Alok Pal Jain	2008	Dr. A. K. Singhai	Studies on Anticancer Herbal Immunomodulatory Bioactives
141	Mr. Abhay Asthana	2008	Prof N.K.Jain	Poly (Amidoamine) Dendrimer Based Delivery of some Anticancer Drugs
142	Mr. H.N. Shivaprasad	2008	Prof. M.D. Kharya & Dr. A.C. Rana	Adaptogenic Free Radical Scavenging and Immunomodulatory potential of Triphala
143	Mr. Awesh Kr Yadav	2008	Prof. G.P.Agarwal & Prof. N.K. Jain	Development and Charecterization of Nanoparticulate Carriers for Delivery of Anticancer Drugs

144	Mr. Pradeep Kr Singour	2008	Prof D.V. Kohli	Design Synthesis and Biological Evaluation of some Novel antidiabetic Drugs
145	Mr. Deepak Prabhakar Bhagwat	2008	Prof. M. D. Kharya	Evaluation of Immunomodulation Potential of certain Herbs
146	Mr. Ajay Kr Sharma	2008	Prof. V.K. Dixit	Evaluation of some Herbal Drugs for Hypolipidemic Activity and their Standardization
147	Ku. Monika Katyal.	2008	Prof. M. D. Kharya & Prof. N.K. Jain	Formulation and Evaluation of Antiageing Herbal Cosmetics
148	Mr. Tathagatta Dutta	2008	Prof. N.K. Jain	Dendrimer Mediated Delivery of some Antiretro viral Bioactives
149	Mr. Mayank Thakur	2008	Prof. V. K.Dixit	Phytochemical and Pharmacological Investigations of some Ayurvedic Drugs of Rasayana Category
150	Mr. Dinesh Kumar Mishra	2008	Prof. N.K. Jain	Transdermal Immunization Using Different Novel Drug Delivery Systems: Characterization and Performance Evaluation
151	Ku Shilpi Bhargava	2008	Prof. G.P. Agarwal & Prof. S.P. Vyas	Autocoid Analouges Directed Systems for Targeted Anticancer Therapy
152	Mr. Kapil Khatri	2008	Prof. S.P.Vyas	Development and Charecterization of Novel Carrier System for Genetic Immunization
153	Mr. Vikas Jain	2008	Prof. D.V. Kohli & Prof. S.P. Vyas	Immunoliposome Based Targeted Immunization Preparation and Charecterization
154	Mr. M. Senthil Kumar	2008	Prof. P.Mishra & Prof. N.K.Jain	Pegylated Nanoparticulate Drug Delivery System (s) for some Anti Cancer Drugs.
155	Ms Shilpi Bhargava	2008	Prof.G.P Agrawal and Prof S.P Vyas	Autocoid and analogues directed Systems for Targated Anticancer Therapy
156	Gaurav Kant Saraogi	2009	Prof.G.P Agrawal and Prof N.K.Jain	Novel nanoparticulate druf delivery system for treatment of tuberculosis
157	Mr. Amit Kr. Goyal	2009	Prof. S.P. Vyas	Development and Charecterization of Novel Nano-Carrier Constructs for Genetic Immunization against Malaria
158	Ku Swati Gupta	2009	Prof. S.P. Vyas	Developoment and Evaluation, A Targeted Chemotherapy for Leishmaniasis

159	Mr. Prem Narayan Gupta	2009	Prof. S.P.Vyas	Development and Charecterization of Novel Carriers Construct for Oral Immunization.
160	Ku. Mandakini Jain	2009	Prof. G.P. Agrawal & co-sup.- Prof. N.K. Jain	Development of phospholipids coated microcrystals as novel drug carriers for parenteral delivery of some antiepileptic drugs
161	Mr. Anekant Jain	2009	Prof. S.K. Jain	Colon specific delivery of anticancer drugs
162	Mr. Vadere. Gautam Prakash	2009	Prof. A.K.Singhai	Phytochemical and pharmacological screening of few anti-asthmatic herbs
163	Mr. Prateek Kumar Jain	2009	Prof. R.K. Agrawal	Development of methods for standardization and validation of polyherbal antioxidants formulations
164	Mr. Rakesh Sagar	2009	Prof. R.K. Agrawal & Co-sup. Prof. V.K. Dixit	Phytochemical investigation of some herbal antiasthmatic drugs and development of their standaraization parameters
165	Mr. Sanjeev Kumar Mittal	2009	Prof. A.K. Singhai	Investigation on some hypoglycemic drugs of plant origin
166	Mr. Atul Pathak	2009	Dr. K.C. Gupta, IGIB Delhi & Co-sup. Prof. S.P. Vyas	Development and characterization of nanoparticles based carrier systems for delivery of DNA
167	Mr. Gopal Rai	2009	Prof. G. P. Agrawal & Co-sup. Prof. N.K. Jain	Development and characterization of novel site specific drug delivery system for effective treatment of colon cancer
168	Mr. Aviral Jian	2009	Prof. S. K. Jain	Design and development of long circulation conjugates for brain targeting
169	Mr. Harish Rajak	2009	Prof. Pradeep Mishra & Co-sup- Prof, M.D. Kharya	Synthesis and biological evaluation of novel 1,3,4-Oxadiazoles
170	Mr. Nitin Kumar Jain	2009	Prof. S.K. Jain	Engineered Drug Delivery system for Effective Management of Liver Cancer
171	Mr. Sushil K. Kashaw	2009	Prof. Pradeep Mishra Co-sup. Prof. N.K. Jain	Synthesis of some Novel 4 (3H) Quinazolinone for CNS activity
172	Mr. Avnindra Singh Mann	2009	Prof, M.D. Kharya Co-sup. Prof. N.K. Jain	Pharmaceutical Studies on certain Non Conventional Mucilages formulation standerization and evaluation
173	Ku. Kavita Rohit	2009	Prof. A.K. Singhai	Investigation on some hypolipidemic drugs of Plant origin

174	Mr. V. Ravichandran	2009	Prof. R. K. Agrawal	Designing synthesis a evolution of Anti-Viral Compounds
175	Mr. Neeraj Upmanyu	2010	Prof. Pradeep Mishra Co-sup. Prof. M. D. Kharya	Synthesis and Biological evaluation of some Novel 1,2,4 – Triazoles
176	Mr. Yashwant Gupta	2010	Prof. S. K. Jain & Co-sup. Prof. D. V. Kohli	Surface modified Vesicles Bearing anti cancer Drug for effective Cancer Chemo therapy.. development and characterization
177	Mr. Manoj Nahar	2010	Prof. N. K. Jain	Development of Engineered Nanoparticulate carrier System(s) for Effective treatment of Visceral Leishmaniasis
178	Mr. Gourav Kant Saraogi	2010	Prof. G. P. Agrawal & Co-sup. Prof. N. K. Jain	Novel Nanoparticulate Drug Delivery system for Treatment of Tuberculosis
179	Mr. Amit Nayak	2010	Pro. D. V. Kohli& Co-sup. Prof. S. K. Jain	Synthesis and characterization of some colon specific conjugates
180	Mr. M. S. Sudheesh	2010	Pro. D. V. Kohli& Co-sup. Prof. S. P. Vyas	Development of Gelating based particulate carrier systems as Immuno-adjuvants
181	Mr. Vaibhav Dubey	2010	Prof. N.K. Jain	Development of engineered nanocarriers for controlled delivery of anti-HIV bioactive(s)
182	Mr. Ravshankar Pandey	2010	Prof. V.K. Dixit	Studies with Saponin-lipid based nanoparticulat constructs as Immuno-adjuvants
183	Mr. Umesh Gupta	2010	Prof. N.K. Jain	Dendrimer mediated targeting of some anti-cancer drugs
184	Abhinav Agrawal	2011	Prof.G.P Agrawal	Development and evaluation of nanoparticles based targated delivery system of some chemotherapeutic agent for the treatment of brain cancer.
185	Bhuvaneshwar Vaidya	2011	Prof S.P Vyas and Prof.G.P Agrawal	Functionalised (carrier's) for targated delivery of thrombolytic agents: Development, Characterization and Evaluation.
186	Mr. Avijeet Jain	2011	Prof. A. K. Singhai	Investigation on <i>Tephrosia purpurea</i> Pers and <i>Momordica dioica</i> Roxb for Nephroprotective Activity
187	Mr. Anand Chourasia	2011	Prof. M. D. Kharya	Development and standardization of a potential herbal anti-diabetic formulation

188	Mrs. Surbhi Saraf Deodia	2011	Prof. N. K. Jain & Dr. V. K. Kashyap Director NIB Noida	Approaches for mucosal Immunization against Hepatitis-B
189	Mr. Neeraj Mishra	2011	Prof. S. P. Vyas and Prof. G. P. Agrawal	Development and characterization of Mucoadhesive biodegradable polymer(s) based carrier adjuvants for Immunization against Hepatitis-B
190	Mr. Abhinav Mehta	2011	Prof. S. P. Vyas	Development and characterization of carrier mediated DNA prime – protein Boost vaccination against pulmonary tuberculosis.
191	Ms. Gyati Silakari	2011	Prof. D. V. Kohli And Prof. S. P. Vyas	Development & Characterization of some Novel carrier systems for delivery of Oligonucleotides
192	Mr. Vinay Saini	2011	Prof. D. V. Kohli	Responses of Rodent Host Exposed to selected Filarial Antigen Molecules through polymeric Microparticles of Biodegradable Polymer
193	Mr. Nishant Kumar Gupta	2011	Prof. V. K. Dixit	Development & Characterization carrier based delivery of Phytopharmaceuticals: antioxidant & hepatoprotective agents.
194	Mr. Nagendra Singh Chouhan	2011	Prof. V. K. Dixit	Phytochemical & Pharmacological studies on some Vaajikarana drugs.
195	Mr. Piush Khare	2011	Prof. S. K. Jain	Design & Development of Novel Oral Drug Delivery system for effective treatment of enteric fever
196	Mr. Manoj Sudhakar Tare	2011	Prof. N. K. Jain	Immunodendrimer Mediated Targeting of Bioactive to Ovarian Cancer
197	Mr. Narendra Kumar Lariya	2011	Prof G. P. Agrawal & Prof. N. K. Jain	Activated macrophages mediated targeting of some anti-Arthritic Drugs
198	Mr. Jaiwant Singh Thakur	2011	Prof R.K. Agrawal & Prof. M. D. Kharya	Production of hepatoprotective bioactive from plant cells through immobilization
199	Ms. Shivani Vaidya	2011	Prof. M. D. Kharya	Development of Herbomineral formulation for management of diabetes Mellitus
200	Mr. Santram Lodhi	2011	Prof. A. K. Singhai	Phytochemical and pharmacological screening of some plants for wound healing potential

201	Mr. Virendra Gajbhiye	2011	Prof. N. K. Jain	Dendrimer Mediated Brain Delivery of some anty-cancer Bioactives
202	Ms. Shailja Tiwari	2011	Prof. S. P. Vyas & Prof G. P. Agrawal	Development, Characterization and evaluation of molecular complex (es) based Combo-Vaccination strategies against Hepatitis B
203	Mr. Rakesh K. Tekade	2012	Prof. N. K. Jain	Folate-Anchored Dendrimer-mediated Delivery of some Anticancer Bioactives
204	Mr. Alok Nahata	2012	Prof. V. K. Dixit	Phytochemical & Pharmacological Investigation of some Plants for their Antiandrogenic Properties
205	Mr. Shailendra Patil	2012	Prof. G. P. Agrawal	Development and Characterization of Biodegradable microspheres for long term delivery of antipsychotic drugs
206	Mr. Amit Kumar Jain	2012	Dr. A. C. Rana Prof. G. P. Agrawal Prof. M. D. Kharya	Studies on potential of Plant tissue culture techniques for the production of Anti-Cancer constituents of some plant
207	Mrs. Divya Bansal	2012	Prof. S. K. Jain	Development & Characterization of Colonic Tumor Specific Drug Delivery System Bearing Anti-Cancer Drug
208	Mr. Suresh Janadri	2012	Prof. M. D. Kharya	Study of Nanosizing Shwaskuthar Rasa-A Herbominiral formulation of Aurveda for its Pharmacology
209	Mr. Ashish Kumar Jain	2012	Prof. G. P. Agrawal	Development & Performance Evaluation of Particular & Vesicular Drug Delivery System for Effective management of Peptic Ulcer
210	Mr. Rishi Paliwal	2012	Prof. S. P. Vyas & Prof. G. P. Agrawal	Development & Characterization of Nanocarrier(s) for Oral Delivery of Low Molecular Weight Heparin
211	Mr. Vijay Singh Karwasara	2012	Prof. V. K. Dixit	Tissue Culture studies of some anti cancer herbs for the enhancement secondary metabolite camptothecin & puerarin
212	Ms. Shivani Rai	2012	Prof. S. P. Vyas & Prof. G. P. Agrawal	Evaluation of Bioligand (s) for receptor targeted therapy of Breast Cancer
213	Ms. Preeti Tomar	2013	Prof. V. K. Dixit	Nanoparticulate LHRH Analogue Delivery for the Treatment of Prostate Cancer

214	Mr. Lavkesh Kumar Omray	2013	Prof. Asmita Gajbhiye & Prof. G. P. Agrawal	Development and Characterization of liquid Cristal grafted micro reservoir based transdermal drug delivery systems of testosterone
215	Mr. Vikas Sharma	2013	Prof. V. K. Dixit	Investigation on Phytochemical and Pharmacological aspects of some Vrashya rasayan herbs
216	Mr. Nitendra Kumar Sahu	2013	Prof. D. V. Kohli	Design and synthesis of chalcone and quinolinam derivative as anti malarial agents
217	Mr. Ankur Vaidya	2013	Prof. R. K. Agrawal	Design Synthesis, and screening of a quinoline and oxadiazole derivatives for anti cancer activity
218	Mr. Mukesh Chandra Sharma	2013	Prof. D. V. Kohli	Computer aided Drug Design, Synthesis & Biological evaluation of some angiotensin II receptor antagonists as antihypertensive agents
219	Mr. Nileesh Kumar Jain	2013	Prof. A. K. Singhai	Phytochemical & Pharmacological Investigations on few <i>Chenopodiaceous</i> plants for there hepetoprotective Potential
220	Mr. Ashish Kumar Manigauha	2013	Prof. M. D. Kharya	Exploring Tumor inhibition potential of <i>Ipomoea pes caprae</i> Linn
221	Mr. Jay Ram Patel	2013	Prof. V. K. Dixit	Phytochemical and Pharmacological studies on some herbs for Antiasthematic Potential
222	Mr. Sajjad Khan	2013	Prof. M. D. Kharya	Management of stress induced disorder through <i>Mucuna pruriens</i> and <i>Hypericum perforatum</i>
223	Ms. Devyani Dube	2013	Prof. S. P. Vyas & Prof. G. P. Agrawal	Development and Characterization and in-vivo Assessment of Ligand Mediated Macrophagic targeting of Antitubercular Drug(s)
224	Mr. Abhisheke Kumar Jain	2013	Prof. R. K. Agrawal	Synthesis Characterization & evaluation for antitubercular activity of a few 4 – thiazolidinone and ascnicotina hydrazide derivatives
225	Mr. Simant Sharma	2013	Prof. R. K. Agrawal	Design Synthesis and evalution of caspase-3 inhibitors for the treatment of Alzheimer type dementia
226	Mr. Navneet Khurana	2013	Prof. Asmita Gajbhiye	Phyto Pharmacological Evaluation of <i>Sida cordifolia</i> for Neurodegenerative Diseases

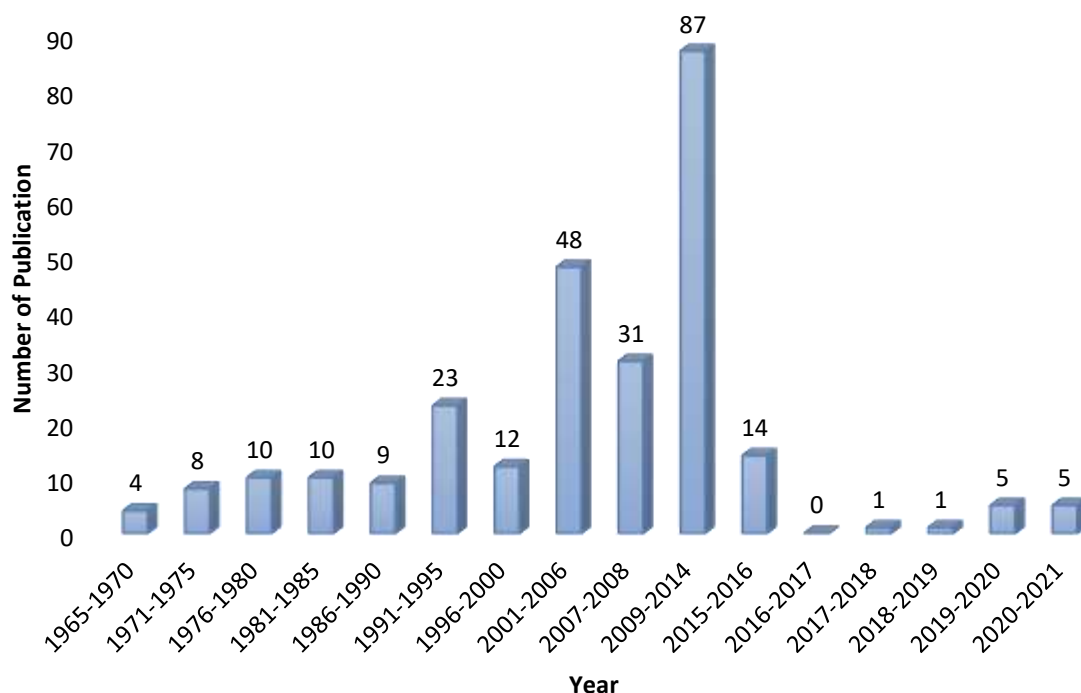
227	Mr. Nitin Nema	2013	Prof. M. D. Kharya	Evaluation of Triphala for its Immunomodulation and Hepatoprotective potential
228	Mr. Vikas Jain	2014	Prof. N. K. Jain	Legend mediated liquid crystalline nanoparticulate carrier based delivery of anticancer bioactives
229	Mr. Pushpendra Jain	2014	Prof. Asmita Gajbhiye	Development & Characterization of phytosome of flavonoidal drug for hepatoprotective activity
230	Ms. Madhu Gupta	2014	Prof. S. P. Vyas & Prof. G. P. Agrawal	Development & Characterization of Polymeric Nano carriers for Targeted Chemotherapy of solid Tumor
231	Mr. Ashish Jain	2014	Prof. S. K. Jain	Development & Characterization of oral Insulin delivery system
232	Mr. Satish Shilpi	2014	Prof. S. K. Jain	Transferrin Coupled Nanocarrier for Targeting Anticancer Drug to solid tumor
233	Ms. Sarbjeet Kaur	2014	Prof. M. D. Kharya	Evaluation of <i>Withania somnifera</i> , <i>Mucuna pruriens</i> and silajit for the treatment of Erectile Dysfunction
234	Mr. Prashant Kesharwani	2014	Prof. N. K. Jain	Generation Dependent Cancer Targeting Propensity of Polypropyleneimine Dendrimer
235	Anil Kumar kharya	2014	Prof. G. P. Agrawal	Development & Characterization of Galacthsylated Nanoparticles for effective Management of Liver Cancer
236	Mr. Yogesh Pounikar	2014	Prof. Asmita Gajbhiye	Semisynthetic preparation of porphrin derivatives for oxygen carrying capacity
237	Mr. Arvind Gulbake	2014	Prof. S. K. Jain	Development & Characterization of Polymer –Clay Composites for Effective Management of Ulcerative Colitis
238	Mr. Satish Kumar Sahu	2014	Prof. D. V. Kohli	Development & evaluation OF mutual prodrugs of anti-inflammanatory agent and antiprotozoal agent for colon targeting
239	Mr. Surendra Lalwani	2014	Prof. Asmita Gajbhiye	Synthesis and anticancer activities of hemin derivatives for photodynamic therapy
240	Ms. Rupal Dubey	2014	Prof. S. K. Jain	Development & Characterization of brain tumor specific nanoconstruct bearing hyaluronic acid conjugated cytotoxic drug
241	Mr. Rajesh Yadav	2014	Prof. M. D. Kharya	Development & evaluation & Standradization of Immunomodutatory formulation
242	Ms. Rupshee Jain	2014	Prof. D.V. Kohli	Synthesis and evaluation anticonvulsant activity of some novel 1,2,4 Triazoles

Ph.D. Produced (2015 to 2020)

1	Mr. Neelesh Kumar Mehra	2015	Prof. N. K. Jain	Engineered Carbon Nanotubes for Targeting Of Anticancer Bioactive
2	Ms. Raksha Ghanghoria	2015	Prof. N. K. Jain	Development & Characterization of LHRH Decorated Nanoparticulate Carriers for Tumor Targeting
3	Ms. Keerti Jain	2015	Prof. N. K. Jain	Intracellular Targeting of Antiparasitic Drug to Macrophages Through Ligand Conjugated Dendrimers
4	Mr. Ravindra Kumar Chourasiya	2015	Prof. R. K. Agrawal	Design Synthesis & Anti tumor activity of some novel B- corboline derivatives
5	Mr. Brajesh Kumar Tiwari	2015	Prof. G. P. Agrawal	Development & evaluation of surface modified nanoparticulate carrier for the delivery of Tubercular antigen
6	Ms. Pooja Hurkat	2015	Prof. S. K. Jain	Topical delivery of antiprotozoal drug for the treatment of cutaneous leishmaniasis
7	Mr. Sanjeev Kumar Sahu	2015	Prof. D. V. Kohli	Synthesis and evaluation of some antiamebic drug conjugates for colon targeting
8	Ms. Aakansha Jain	2015	Prof. D. V. Kohli	Colonrectal cancer targeting through caspase-3 activator encapsulated surface engineered nanoparticles
9	Ms. Abhilasha Thakur Lodhi	2015	Prof. G. P. Agrawal	Ligand anchored dual drug delivery system bearing antitubercular drugs for alveolar macrophage targeting
10	Mrs. Kavita Rai Gajbhiye	2015	Dr. Vandana Soni	Legend anchored nanocarrier system for brain delivery of anti-alzheimer's drugs
11	Ms. Udit Agrawal	2015	Prof. S. P. Vyas	Development & Characterization of molecular complex (es) based composite for site specific drug delivery
12	Mr. Vijay Mishra	2015	Prof. N. K. Jain	Poly (propylene imine) dendrimers mediated delivery of siRNA to HIV-infected lymphocytes
13	Mr. Vikas Mishra	2015	Dr. S. K. Kashaw	Design synthesis & In-Silico analysis of some heterocyclic compounds as anti malarial agents
14	Mr. Devendra Kumar	2015	Dr. Vandana Soni & Prof. V. K. Dixit	Phyto-lipoid complexation (Phytosomes) strategy for activity enhancement of poorly absorbed phyto-constituents for skin ailments
15	Mr. Ankit Jain	2017	Prof. Sanjay K. Jain	Development & Characterization of Cancer Targeted Drug Delivery System

16	Mr. Prashant Sahu	2018	Dr. S.K. Kashaw Co- Prof. R. K. Agrawal	Development & Characterization and assessment of nanogel based delivery system in treatment of skin cancer
17	Ms. Nishi Mody	2020	Prof. S.P. Vyas	Development & Characterization of Tailored Nanocarrier bearing Antitumor Bioactive for Targeted Solid Tumor Chemotherapy
18	Mr. Rajeev Sharma	2020	Prof. S.P. Vyas	Development & Characterization of Core-Shell/Polymer Lipid Based Nano Composite(s) for effective Melanoma Immunotherapy
19	Mr. Amit Verma	2020	Prof. Sanjay K. Jain	Development & Characterization of Antifungal Drug Delivery System for the Effective Treatment of Fungal Keratitis
20	Mr. Saket	2020	Prof. Vandana Soni	Development & Characterization of Antifungal Dual Targeted Nanoparticulate System for the effective Delivery of Anticancer Drug to the Tumor Cells
21	Ms. Priyanka Jain	2020	Prof. Vandana Soni	Development & Characterization of of Engineered Nanocarrier System for the Treatment of Glioma.
22	Mr. Adarsh Sahu	2021	Prof. R.K. Agrawal	Synthesis and characterization of some 1,2,3-triazolyl linked medicinal compound for improvement of their efficacy.
23	Ms. Ruchi Gayakwad	2021	Dr. Shovanlal Gayen	Development of Novel Indole Derivatives for Anti Cancer Therapy
24	Ms. Sivangi Agrawal	2021	Dr. Shushil K. Kashaw	An Integrative Computational Approach to Explore Potential Genes and Their Encoded Protein(s) Modulators in the Treatment of Breast Cancer
26	Ms Sweta Mishra	2021	Prof. Asmita Gajbhiye	Synthesis, Characterization and Pharmacological Evaluation of HDAC Inhibitors as Anticancer Agents
27	Mr. Vikas Pandey	2021	Prof. Vandana Soni	Development & Characterization of Surface Modified Nanoparticles for the Treatment of Brain Cancer

Ph.D. Produced:



Department of Pharmaceutical Sciences in one of the pioneer centers of the country for the doctoral researches, so far department has 27 students are still working for their PhD program.

PhD Registered Students in Last Five Years (2015-2020)

S.No	Name	Registration No.	Title of the Thesis	Supervisor	Year of Registration	Fellowship received
1	Ms. Shivangi Agarwal	Y16454002 2011264001	An Integrative Computational Approach to Explore Potential Genes and their Encoded Protein(s) Modulators in the Treatment of Breast Cancer	Dr. S. K. Kashaw	2016	DST-INSPIRE

2	Ms. Shivani Saraf	Y16454003 201514401	Smart Liposomes Bearing a Chemotherapeutic Agent and Natural Apoptosis modulator for Effective Treatment of Solid Tumor: Development and Characterization	Prof. Sanjay K. Jain	2016	ICMR
3	Ms. Ekta Verma	Y16454004 2015264001	Synthesis and Characterization of Novel 4-quinolone Derivatives in Allergic Asthma.	Prof. Asmita Gajbhiye	2016	ICMR
4	Mr. Tanweer Haider	Y16454006 102544001	Development and Characterization of Tumor Targeted Nano- Carrier System	Prof. Vandana Soni	2016	ICMR
5	Mr. Vishal Gour	Y16454007 1015144001	Development and Characterization of Vesicular Systems for the Treatment of Skin Cancer.	Prof. Vandana Soni	2016	UGC-NFO
6	Mr. Deepak Kumar Dwivedi	Y16454011 101144000	Design , Synthesis and Biological Evaluation of Novel 4-Anilinoquinazoline Derivatives as Potential EGFR Kinase Inhibitors	Prof. R.K. Agrawal	2016	ICMR
7	Mr. Nikhar Viswakarma	Y16454012 1015144001	Affinity Regulated Nanosystem(s) for Insulin Delivery.	Prof. S.P. Vyas	2016	ICMR
8	Ms. Anamika Jain	Y16454014 2051144001	Development and Characterization of Nanocarriers based Targeted Antimalarial Therapy	Prof. S.P. Vyas	2016	ICMR
9	Ms. Indu Lata Kanwar	Y16454015 201354001	Development and Characterization of Bioadhesive Drug Delivery System for the Treatment of Buccal Cancer	Prof. Vandana Soni	2016	ICMR
10	Mr. Prithish Kumar Panda	Y16454017 1011204001	Functionalised Nanocarrier for the Treatment of Prostate Cancer: Development and Characterisation	Prof. Sanjay K. Jain	2016	ICMR
11	Mr. Laxmikant Gautam	Y16454018 1011144001	Site-directed Conjugates for Effective Cancer Chemotherapy: Development and Characterization	Prof. S.P. Vyas	2016	ICMR

12	Mr. Mandeep Kumar Singh	Y16454020 1015264001	Development and Evaluation of Vesicular Drug Delivery System for Hepatocellular Carcinoma in Diabetic condition	Prof. Umesh K. Patil	2016	CSIR
13	Ms. Swati Rathore	Y16454021 2015144001	Design, Synthesis and Pharmacological Evaluation of Methylenedioxyphenyl Derivatives as Anticancer agents	Prof. Asmita Gajbhiye	2016	ICMR
14	Mr. Jitendra Doneriya	Y16454022 1012144001	Development and Evaluation of Herbal Formulations for Antihyperlipidemic Activity	Prof. Umesh K. Patil	2016	
15	Ms. Neha Rai	Y16454023 2012144001	Synthesis and Characterization of Short Peptides as Potential Anticancer and Antimicrobial Agents	Prof. Asmita Gajbhiye	2017	UGC NON NET
16	Ms. Priya Shrivastava	Y17454001 2011144001	Targeted Drug Combination Therapy for Tuberculosis: Development and Characterization	Prof. S.P. Vyas	2017	DST-INSPIRE
17	Ms. Sarjana Raikwar	Y17454002 2015144001	Development and Characterization of Surface modified Nanocarrier(s) for Targeted Anticancer Therapy to Breast Cancer”	Prof. Sanjay K. Jain	2017	ICMR
18	Ms. Pooja Das Bidla	Y17454003 2012144001	Development and Characterization of Surface Modified Nanoconstruct(s) for Brain Tumor Specific Chemotherapy”	Prof. Sanjay K. Jain	2017	ICMR
19	Mr. Debarshi Kar Mahapatra	Y17454005 101154001	Development and Characterization of Flavonoidal Phytosomes	Prof. Asmita Gajbhiye	2017	ICMR
20	Ms. Richa Tripathy	Y17454007 2011144001	Development and Characterization of <i>Sida Cordifolia</i> Phytosomes for Neurodegenerative Diseases	Prof. Asmita Gajbhiye	2017	UGC-NON NET

21	Ms. Poornima Agrawal	Y17454008 2011144001	Development and Characterization of Ceramide adjuncted Buccoadhesive System(s) for Oral Cancer Chemotherapy	Prof. Vandana Soni	2017	ICMR
22	Ms. Devyani Rajput	Y19454001 4250022	-	Supervisor: Prof. Umesh K Patil Co-supervisor: Dr. Sushil K Kashaw	2019	-
23	Monica Vishwakama	Y20454001		Supervisor: Prof. Dharmendra	2020	
24	Nancy Jain	Y20454002		Supervisor: Prof. Umesh K Patil Co-supervisor: Dr. Snjay K Jain	2020	
25	Sakshi	Y20454003		Supervisor: Prof. Vandana Soni Co-supervisor: Dr. Sushil K Kashaw	2020	
26	Shivam Kumar Kori	Y20454004		Supervisor: Dr. Sushil K Kashaw Co-supervisor: Prof. Asmita Gajbhiye	2020	
27	Sunny Rathee	Y20454005	-	Supervisor: Prof. Sanjay K Jain Co-supervisor: Prof. Umesh K Patil	2020	

Research Projects

A. Research Projects Completed:

Project Investigator	Name of Project	Name of Scheme	Year of completion	Grant
Prof. N.K.Jain & Prof. S. P. Vyas	Target Oriented Immobilized Drug Delivery System	HRD	1989	10.0 Lakhs
Prof. N.K.Jain	Study of Colloidal Drug Delivery Systems	UGC	1989	4.5 Lakhs
Dr. S.P. Vyas & Dr. S.K. Jain	Pressure and Temperature Sensitive Polymer Based Hypodermal Contraceptive System	UGC	1994	5.5 Lakhs
Prof. N.K. Jain	Formulation of Aqueous Injections of some water – insoluble drugs	UGC	1997	7.0 Lakhs
Dr. S.K. Jain	Glucose Triggered Insulin Delivery	AICTE	2000	10.35 Lakhs
Dr. D.V. Kohli	Synthesis & Characterization of Polyacrylnitra Based Skin Graft	U.G.C. Unsigned	2001	30,000=00
Dr. A.K. Singhai	Documentation of Medicinal Wealth of Sagar, Central India	U.G.C.	2001	40,000=00
Dr. R.K. Agrawal	Computer aided drug design	UGC	2001	38000
Dr. A. Gajbhiye	Investigation of some hypolipidimic drugs from natural origin.	UGC	2001	20,000
Dr. S. K. Jain & Prof. N.K. Jain	Novel approaches for the treatment of Amebiasis	U.G.C.	2001	4.0 Lakhs
Prof. N.K. Jain	Dendrimers based delivery of some bioactives	U.G.C.	2001	5.75 Lakhs
Prof. P. Mishra	Synthesis & Evaluation of 1,3,4-Thiadiazole	U.G.C. Unsigned	2002	20,000=00
Prof. G.P. Agrawal	A Novel Approach for Treatment of Resistant malaria	U.G.C.	2002	20,000=00
Dr. A.K. Singhai & Dr. R.K. Agrawal	Exploration, authentication and standardization of herbal product for anabolic & hepatic activity	AICTE-TAPTECH	2002	15.0 Lakhs
Prof. V.K. Dixit & Prof. S.P. Vyas	Engineered Liposome for Macrophage Targeting of Antituberculous Drugs	AICTE	2003	21.0 Lakhs

Dr. M.D. Kharya	Biotechnological Approach for Prod. of Underground Parts of medicinal Plants & Their Bioactive Compound Using Tissue & Cells Culture.	U.G.C. Unsigned	-	25,000=00
Prof. N.K.Jain & Prof. S.P. Vyas	MODROB: Biotechnology (2002)	AICTE	2002	15.0 Lakhs
Prof. N.K.Jain & Prof. S.P. Vyas	MODROB: Computer Networking (2002)	AICTE	2002	7.0 Lakhs
Prof. N.K. Jain	Target Oriented Pharmacosomal Delivery of some Bioactives	AICTE	2003	4.0 Lakhs
Dr. M.D. Kharya	Antimicrobial & Insect Repellant Potential of Certain Essential Oils	U.G.C. Unsigned	2004	10,000=00
Prof. N.K.Jain & Prof. S.P. Vyas	MODROB: Pharmaceutical Technology Lab	AICTE	2003	15.0 Lakhs
Prof. S. P. Vyas	Oral macromolecule delivery systems	Panacea Biotech New Del.	2003	3.0 Lakhs
Prof. N.K.Jain & Prof. S.P. Vyas	MODROB: Pharmacology	AICTE	2004	14.9 Lakhs
Prof. S. P. Vyas	Development of amphotericin B bearing emulsions for targeted leishmaniasis therapy	U.G.C.	2006	4.5 Lakhs
Prof. S. P. Vyas	Carrier Guided non-invasive DNA immunization against some infectious diseases	AICTE	2006	20.0 Lakhs
Dr. D.V. Kohli & Dr. S.K. Jain	Enhancement of delivering of Water Soluble Drugs across BBB	AICTE	2006	9.0 Lakhs
Prof. N.K.J & Prof. SPV	FIST – DST	AICTE	2004	45.0 Lakhs
Prof. S.P.Vyas	DNA based antimalarial vaccine Department of Biotechnology , DNA vaccine against malaria	DBT-Govt of India	2005	49.5 Lakhs
Dr. R.K. Agrawal	Computer aided drug design	MPCOST	2007	Rs 38000
Dr. R.K. Agrawal	Exploration, authentication and standardization of herbal products for anabolic and hepatic activity.	AICTE	2008	Rs 1600000
Dr. S. K. Jain	Brain Targeting Drug delivery System for Effective Treatment of brain Cancer	AICTE	2009	14.9

Dr. R.K. Agrawal	Development of methods for standardization and validation of polyherbal antioxidant formulations	MAPCOST	2010	2.01
Prof. V. K. Dixit	Investigation of some ayurvedic rasayana drugs	UGC-Major	2009	9.5
Prof. S.P. Vyas & Prof. V.K. Dixit	Controlled delivery of therapeutic peptides, proteins and vaccines	U.G.C.	2010	40
Prof. S. P. Vyas	MODROB: Engineering Lab	AICTE	2010	8.5
Prof. A. Gajbhiye	Phytopharmacological evaluation of sida cordifolia for alzheimers disease.	MPCST	2014	4.2
*Prof. S.K. Jain	Targeted delivery of anticancer drug to the lungs via surface engineered nanocarrier system	MPCST	2014	2.98
Prof. S.K. Jain	The Development of Nanocarriers Based Delivery Systems for the Treatment of Solid Tumor	UGC - One Time Grant	2014	7
Dr. Vandana Soni	Targeted delivery of anticancer drug to the lungs via surface engineered nanocarrier system	MPCST	2014	2.98
Dr. S. K. Kashaw	Design, synthesis, anticonvulsant activity and molecular modeling of some novel bioactive 3-(5'-substituted-[1,3,4]-thiadiazole-2'-yl)-2-methyl/phenyl/styryl-(3H)- quinazolinone-4-one	DST	2013	7.56
Dr. S. K. Kashaw	In-silico pharmacophore mapping, QSAR and docking analysis of some caspase-3 activators as potential apoptosis inducers and anticancer agents	MPCST	2014	4.98
Total				431.79 Lakhs

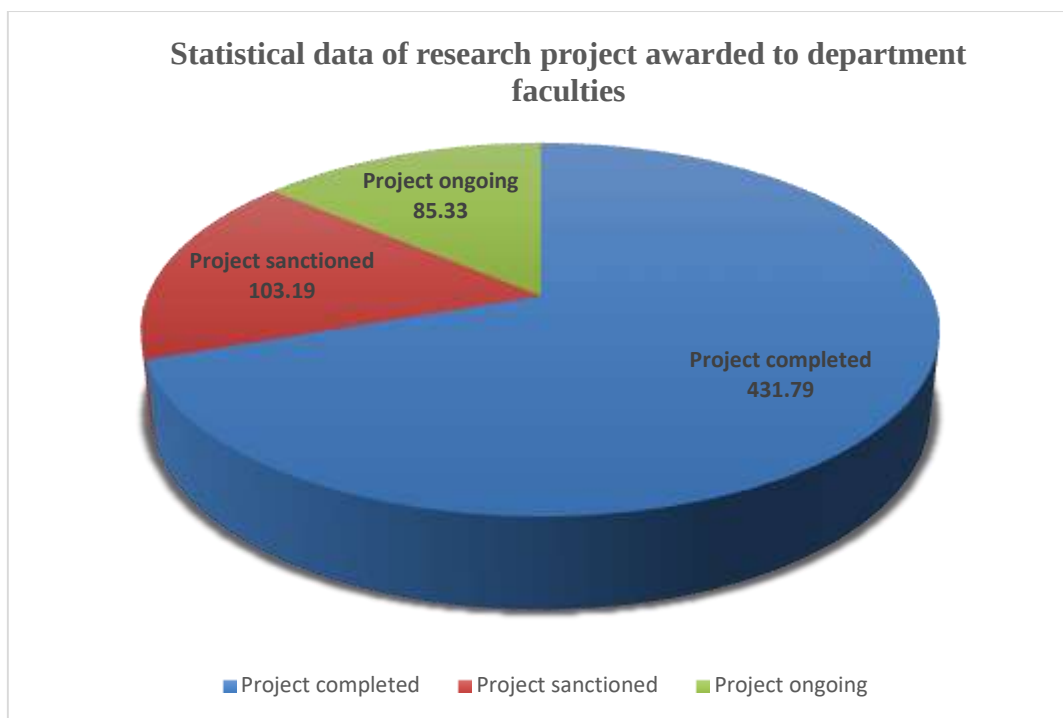
Project Sanctioned (2015-20)

Project Investigator	Name of Project	Name of Scheme	Year of completion	Grant
Dr. S. K. Kashaw	Design, Synthesis, Anticonvulsant Evaluation and molecular modeling of Some New 2, 3-disubstituted 4(3H)-Quinazolinone	UGC	2015	5.26
Prof Asmita Gajbhiye	Design, Synthesis and pharmacological evaluation of novel 4-quinolone derivatives for their potential in allergic asthma	SERB	2015	40.10
Dr. S. K. Kashaw	Design, Synthesis and 3D-QSAR analysis of some new 2,3-disubstituted 4(3H)-quinazolinones based on the hybrid approach: Search for potential	DST	2016	12.0

	antiepileptic and least neurotoxic agents			
Dr. S. K. Kashaw (Co PI)	“Design, Synthesis, antitubercular activity and QSAR analysis of some new substituted 1,2,4-Triazoles derived from Isonicotinic acid hydrazides	MPCST	2017	3.48
Dr. S. K. Kashaw	Development, pharmacological screening and computer aided drug design of some new bioactive 2,3-disubstituted 4(3H) quinoxaline based compounds as potential anti convulsant :exploring possible role of GABA neurotransmitter modulation	SERB	2018	36.39
Prof Asmita Gajbhiye	Synthesis, Characterization and In-vitro evaluation of HDAC inhibitors as anticancer agents	MPCST	2021	5.96
Total:103.19 Lakhs				

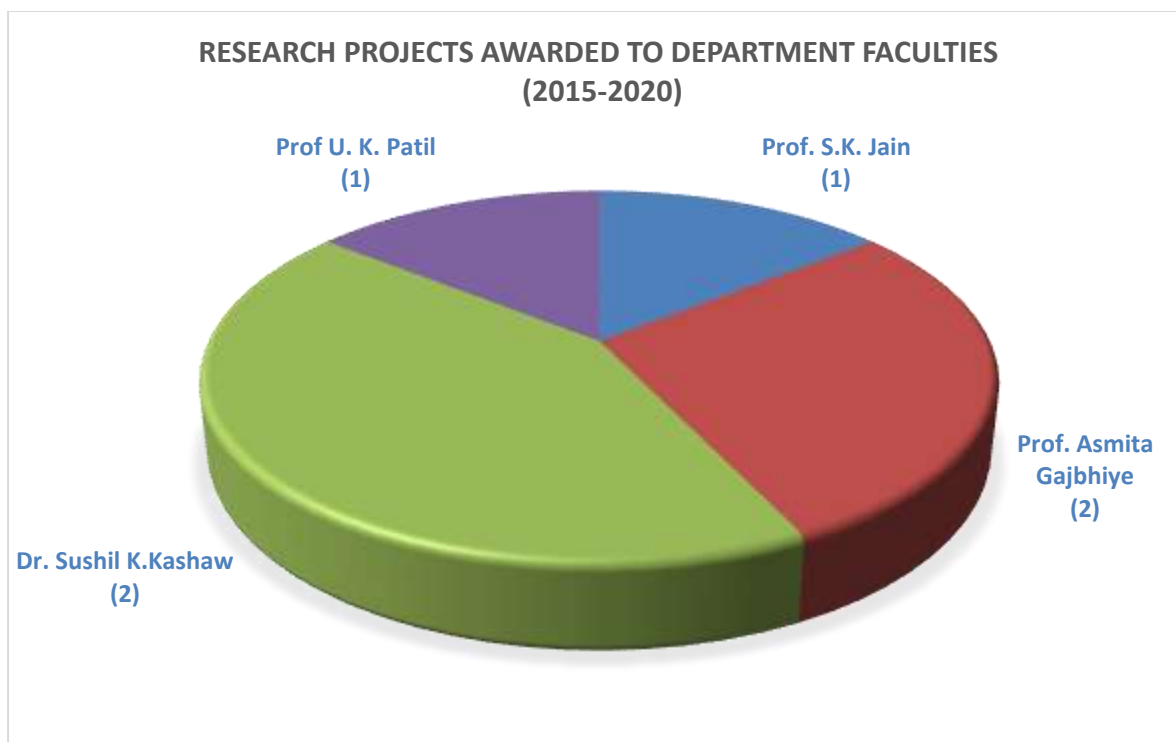
Project ongoing

S.No.	Principal Investigator	Title of the project	Funding agency	Duration of the subject	Sanctioned amount Lakhs
1	Prof. U.K. Patil	Modernization of Pharmacognosy Laboratory	AICTE-MODROB	2 years	20.00
2	Prof. S.K. Jain	Modernization of Pharmaceutical Engineering Laboratory	AICTE-MODROB	2 years	17.33
2	HOD, Department of Pharmaceutical Sciences	Fund for Improvement of S&T Infrastructure (FIST)	DST	5 Years	48.00
Total					85.33



(Session 2015-2020)

S.No.	Name of faculty	Number of Projects	Grants (in lakhs)
1	Prof. S.K. Jain	1	17.33
2	Prof. Asmita Gajbhiye	2	46.06
3	Dr. Sushil K.Kashaw	3	48.39
4	Prof U. K. Patil	1	40.10
Total		06	126.02



PATENTS

Patents Awarded:

1. Vitamin B₁₂ biodegradable micro particulate conjugate carrier systems for peroral delivery of drugs, therapeutic peptides/proteins and vaccines.
 - US PATENT 6,4 82, 413; 19 November 2002
 - Inventor: Prof. Sanjay K. Jain and co-inventors
2. Carrier system comprising Vitamin B₁₂ biodegradable micro particulate conjugates for peroral delivery of drugs, therapeutic peptides/proteins and vaccines
 - WO 02/067995 A1 PCT/IN01/000/27; 06 September 2002
 - Inventor: Prof. Sanjay K. Jain and co-inventors
3. Topical Biodegradable chitosan nanogel of Temozolomide in treatment of melanoma
 - Inventors : Prashant Sahu and Sushil K Kashaw
 - Application no. : 201721011564 A,
 - Filed dated 22/03/2017 ; Grant on 12/05/2017

4. “Surface modified bile salt stabilized non-ionic surfactant nanovesicles for delivery of bioactives”
 - Inventors: Anshuman Shukla, Bhupinder Singh Bhoop, Om Prakash Katore, Suresh Prasad Vyas
 - Application no. : 1564/DEL/2012A, Indian Patent No. : 328209;
 - Filed dated 22/03/2012 ; Grant on 26/12/2019
5. A method for producing surface modified silk fibroin nanoparticles for improved delivery of doxorubicin
 - Inventors: Vikas Pandey and Vandana Soni,
 - Australian Patent No. 202110157
 - Grant on Date 12.05.2021

Patents Filed

1. Pharmaceutical composition for the treatment of brain tumor and method thereof.
 - Indian Patent Office File No. 334/MUM/2015;
 - Inventor: Prof. Sanjay K. Jain and Dr. Rupal Dubey
 - Application date 02 February 2015
2. Pharmaceutical formulations for the treatment of solid tumor and the method of preparation thereof.
 - Indian Patent Office File No. 2017/11002871;
 - Inventor: Prof. Sanjay K. Jain and Dr. Ankit Jain
 - Date of application 25 January 2017
3. A low cost novel method for synthesis of Green Tea Extract Nanogel
 - Inventor: P. Sahu and S. K. Kashaw,
 - Indian Patent Office Application No. 201821017563
 - Dated of Filing : 9 May 2018
4. A Protein conjugated (2-hydroxypropyl)-B-cyclodextrin- methotrexate complex bearing PLGA nanoparticles

- Name of Inventors :Tanweer Haider, Sanjay K Jain and Vandana Soni
 - Indian Patent Office Application No. : 202121023370
 - Date of Filing :25 May 2021
5. Herbal Formulation effective against rheumatoid arthritis and the process for preparation thereof
- Name of Inventors: Ashish Singhai, Umesh K Patil and Sanjay K Jain
 - IPO Application No.: 202121006135
 - Date of Filing: 13Feburaray 2021
6. 3-(3-Oxoaryl) indole as anticancer agent and a process of synthesis
- Name of Inventors:,ShovanlalGayen, Umesh K Patil, Kalptaru Das, Balram Ghos, Tarun Patel and Ruchi Gaikawad
 - IPO Application No.: 202021014497A
 - Date of Filing: 01April 2020
 - Date of Publication: 09 Oct2020
7. 3-(1-H-Indole-3-yl)-1,3-diphenylpropane-1-one derivatives as anticancer agents and a process of synthesis thereof.
- Name of Inventors:, Shovanlal Gayen, Umesh K Patil, Kalptaru Das, Balram Ghos, Dipayan Mondal
 - IPO Application No.: 202021014498A
 - Date of Filing: 01April 2020
 - Date of Publication: 09 Oct 2020

Number of Publications before 2015 = 2394

Publications 2015-20 = 200

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- Cyclic NGR peptide functionalized PEG-PLGA nanoparticles as dual-targeting carrier for site specific antitumor drug delivery, **75, 2015**, Gupta Sr M, Sharma V, Agrawal GP, Vyas SP. *Usa: amerassoc cancer research*.DOI: 10.1158/1538-7445

- Methotrexate loaded emulsomes: A newer approach for management of psoriasis (Conference proceeding), Mody N, Vyas SP, *International Journal of Pharmacy and Pharmaceutical Sciences*. ISSN Print: 0743-4863, DOI: 10.1615/CritRevTherDrugCarrierSyst.2013005589
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- V Pandey, T Haider, AR Chandak, A Chakraborti, S Banerjee, V Soni. Surface modified silk fibroin nanoparticles for improved delivery of doxorubicin: Development, characterization, in-vitro studies. *International Journal of Biological Macromolecules*. 2020:164. Pages 2018-2027. (Impact factor = 6.953). (ISSN: 0141-8130 (print); 1879-0003 (web)) DOI: 10.1016/j.ijbiomac.2020.07.326
- T Haider, V Pandey, N Banjare, PN Gupta, V Soni. Drug resistance in cancer: mechanisms and tackling strategies. *Pharmacological Reports* 2020:72 Page 1125-1151. (ISSN: 2299-5684 (online), 1734-1140 (Print)) (Impact factor: 3.024) Doi: 10.1007/s43440-020-00138-7
- T Haider, KK Sandha, V Soni, PN Gupta. Recent advances in tumor microenvironment associated therapeutic strategies and evaluation models. *Materials Science and Engineering: C*. 2020:116. 111229 (Impact factor:7.328) (ISSN: 0928-4931) DOI: 10.1016/j.msec.2020.111229
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Dr. Sushil K Kashaw

- Potential target identification for breast cancer and screening of small molecules inhibitors: A bioinformatics approach,
Shivangi Agarwal and Sushil K. Kashaw.
Journal of Biomolecular Structure and Dynamics, 2020, (In press)
- Ligand and structure based virtual screening of chemical databases to explore potent small molecule inhibitors against breast invasive carcinoma using recent computational technologies
Shivangi Agarwal, Anshuman Dixit and Sushil K. Kashaw.
Journal of Molecular Graphics and Modelling, 2020, 98, 107591 (In press)
- Integrated computational investigation to develop molecular design of quinazoline scaffold as promising inhibitors of plasmodium lactate dehydrogenase
Mitali Mishra, Shivangi Agarwal, Anshuman Dixit, Vikash K. Mishra, Varsha Kashaw, Ram K. Agrawal, Sushil K. Kashaw
Journal of Molecular Structure, 2020, 1207, 127808 (in press)
- Synthesis of 1, 2, 4-oxadiazole derivatives: anticancer and 3D QSAR studies,
A Vaidya, S Jain, BP Kumar, SK Singh, SK Kashaw, RK Agrawal,
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- Nanomaterials for tumor immunomodulation and overcoming current clinical challenges
S Sau, R Alzhrani, K Bhise, HO Alsaab, SK Kashaw, AK Iyer
Nanomedicine, 2020, 14 (12), 1515-1519
- Discovering pH triggered charge rebound surface modulated topical nanotherapy against aggressive skin papilloma,

P Sahu, SK Kashaw, S Sau, V Kushwah, S Jain, AK Iyer

Materials Science and Engineering: C 107, 110263

- Integrated computational approach on sodium-glucose co-transporter 2 (SGLT-2) inhibitors for the development of novel antidiabetic agents
Sushanta Bhattacharya, Vivek Asati, Mitali Mishra, Ratnesh Das, Varsha Kashaw, Sushil Kumar Kashaw
J. of Molecular Structure, 2020, 129511
- An exhaustive perspective on structural insights of SGLT2 inhibitors: A novel class of antidiabetic agent
European J. Medicinal Chemistry, 2020, 112523
Sushanta Bhattacharya, Akash Rathore, Deepa Parwani, Chaitali Mallick, Vivek Asati, Shivangi Agarwal, Vaibhav Rajoriya, Ratnesh Das, Sushil Kumar Kashaw
- Bioreduction synthesis of zinc oxide nanoparticles using Delonix regia leaf extract (Gul Mohar) and its agromedicinal applications
Journal of Science: Advanced Materials and Devices, 2020, In Press
J.P.Shabaaz Begum, K. Manjunath, S. Pratibha, N. Dhananjaya, Prashant Sahu, Sushil Kashaw
- Structural prediction of novel pyrazolo-pyrimidine derivatives against PIM-1 kinase: In-silico drug design studies
J. of Molecular Structure, 2020, In Press
Vivek Asati, Shivangi Agarwal, Mitali Mishra, Ratnesh Das, Sushil Kumar Kashaw
- The Recent Development of Piperazine and Piperidine Derivatives as Antipsychotic Agents
Akash Rathore, Vivek Asati, Sushil Kumar Kashaw, Shivangi Agarwal, Deepa Parwani, Sushanta Bhattacharya and Chaitali Mallick
Mini-reviews in Medicinal Chemistry, 2020, In Press

- Current insights into the chemistry and antitubercular potential of benzimidazole and imidazole derivatives
Deepa Parwani, Sushanta Bhattacharya, Akash Rathore, Chaitali Mallick, Vivek Asati, Shivangi Agarwal, Vaibhav Rajoriya, Ratnesh Das and Sushil Kumar Kashaw
Mini-reviews in Medicinal Chemistry, 2020, In Press
- Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier
Current Pharmaceutical Design, 2020, 26, 3234
Sushil K. Kashaw, Prashant Sahu, Vaibhav Rajoriya, Pradeep Jana, Varsha Kashaw, Samaresh Sau and Arun K. Iyer
- Novel quinazoline-chalcone hybrids as antiplasmodium agents: synthesis, 7 biological evaluation and molecular docking
Mitali Mishra, Vikash K. Mishra, Varsha Kashaw, Ram K. Agrawal, Sushil K. Kashaw
Journal of Advanced Scientific Research, 2020, 11, 85-99

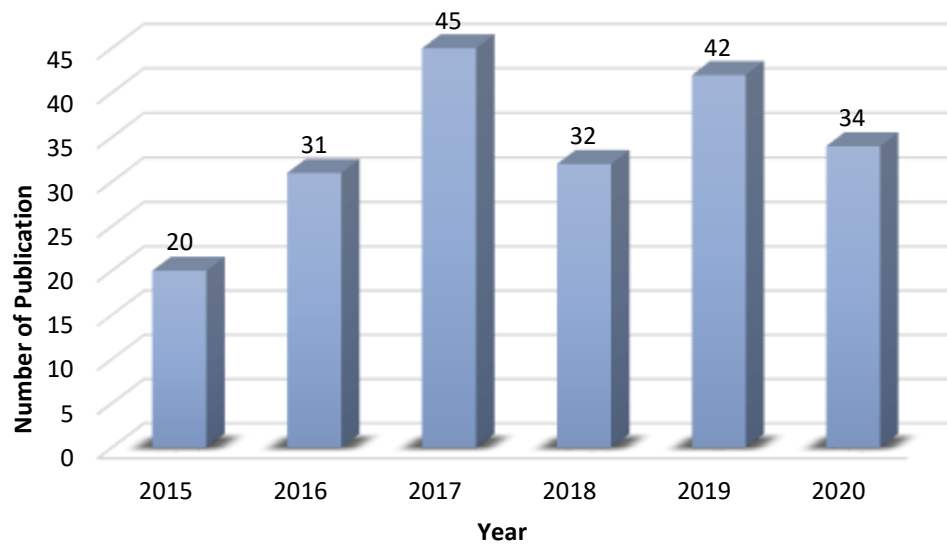
Dr. Dharmendra Jain

- Alginate as Promising Natural Polymer for Pharmaceutical, Food, and Biomedical Applications. Dhalendra Kothale, Utsav Verma, Nagesh Dewangan, Partha Jana, Ankit Jain and Dharmendra Jain. Curr Drug Deliv. 2020;17(9):755-775. DOI: 10.2174/1567201817666200810110226.

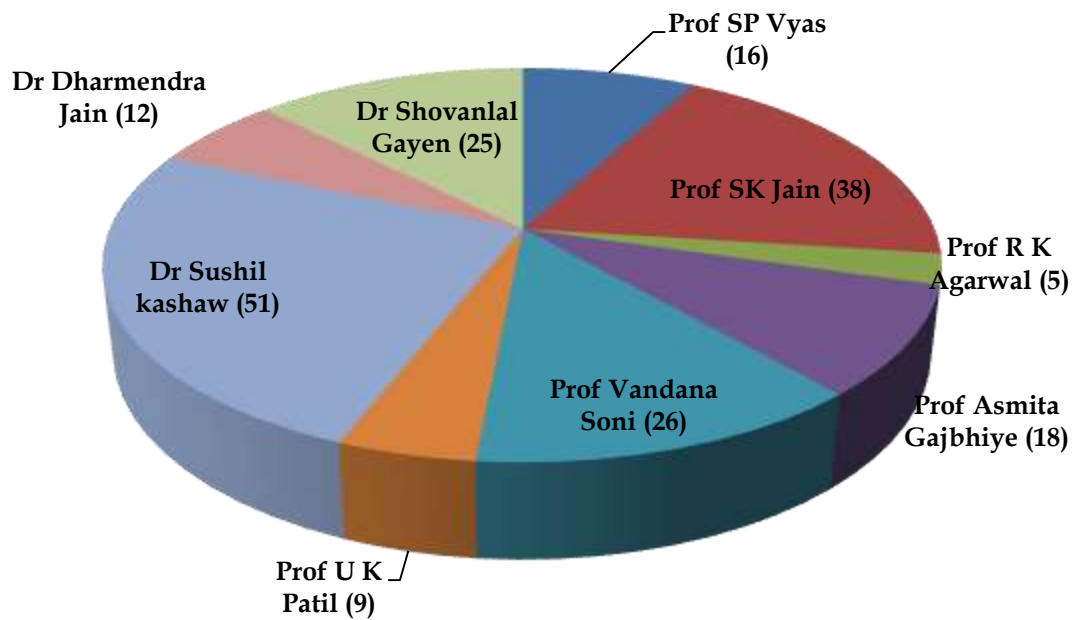
Dr. Shovanlal Gayen

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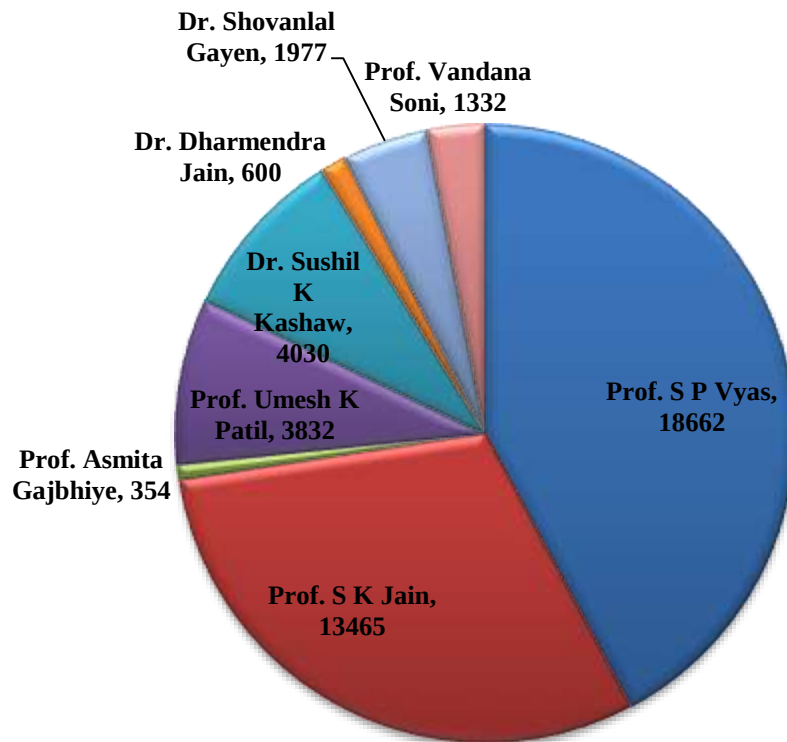
Publication (2015-2020)



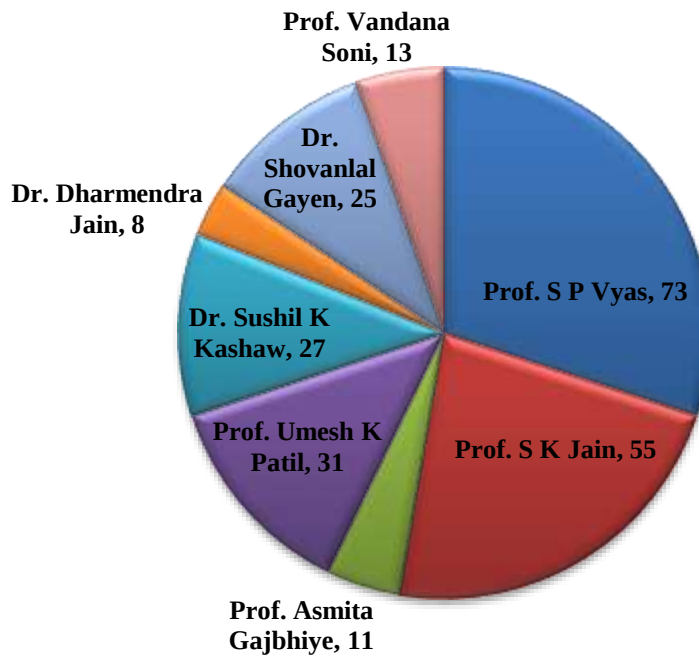
Faculty Publications (2015-2020)

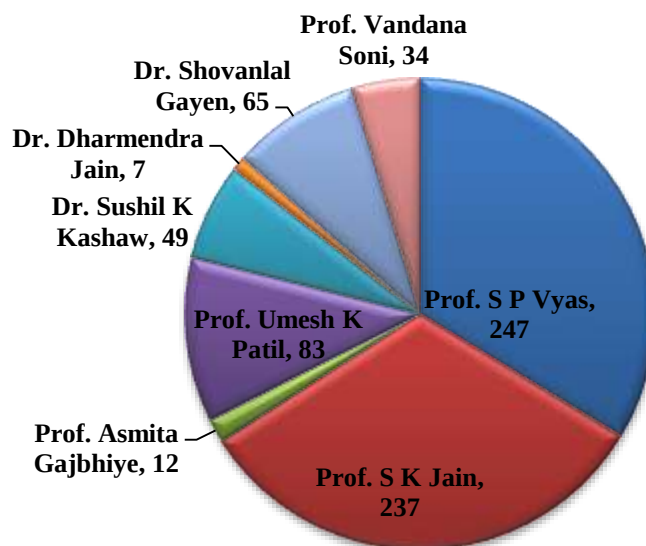


Citation



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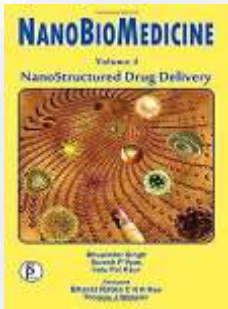
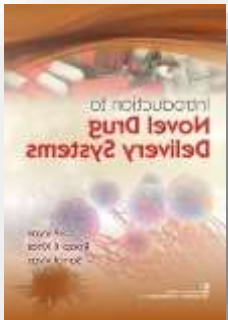
Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e – content
Prof. Vandana Soni	Pharmaceutical calculations and posology – ii	Swayamprabha	13 th Feb 2019
Prof. Vandana Soni	Pharmaceutical calculations and posology – i	Swayamprabha	13 th Feb 2019
Prof. Vandana Soni	Radiopharmaceuticals – III: Methods of Radiation Detection, Radiopharmaceutical having Therapeutic/ Diagnostic Applications [Radiopharmaceuticals iii]	Swayamprabha	5 th April 2019
Prof. Vandana Soni	Radiopharmaceuticals – I: Radioactivity and Radionuclide, Production of Radiopharmaceuticals [Radiopharmaceuticals i]	Swayamprabha	5 th April 2019
Prof. Vandana Soni	Pilot Plant Scale Up Techniques (Pilot plant scale up techniques)	Swayamprabha	5 th April 2019
Prof. Vandana Soni	Pilot plant scale up techniques	Swayamprabha	5 th April 2019

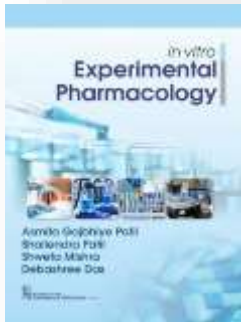
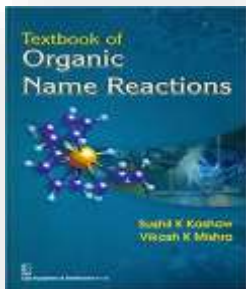
Prof. Vandana Soni	Concepts and Systems Designed for Rate Controlled Drug Delivery, Mechanism of The Drug Release from Matrix Systems and Reservoir Systems, Concept of Drug Targeting [Concept and system designed for rate controlled drug delivery]	Swayamprabha	5 th April 2019
Prof. Vandana Soni	General Consideration and Application of following Drug Delivery Systems: a) Bioadhesive and Mucoadhesive Drug Delivery b) Nanopulmonary Drug Delivery c) Occular Drug Delivery d) Pro-Drug [General consideration and application of following drug delivery systems Part- I+II]	Swayamprabha	5 th April 2019
Prof. R.K. Agrawal	General Pathways of Drug Metabolism: Phase I – (III) Oxidation of Aliphatic and Alicyclic Carbon Atoms, Oxidation of Carbon Nitrogen Systems, Oxidation of Carbon Sulphur Systems [Oxidation of aliphatic, alicyclic carbon & carbon hetroatom system]	Swayamprabha	5 th April 2019
Prof. Asmita Gajbhiye	Polymer Sciences – I - Introduction, Classification and Pharmaceutical Applications of Polymers, Polymers as Thickening Agents, Preparing Polymer Solutions of Polymers [POLYMER SCIENCES – I	Swayamprabha	13 th Feb 2019
Prof. Asmita Gajbhiye	Introduction – IV: Concept of Error, Calibration of Analytical Equipments Introduction – V: Fundamentals of Volumetric Analysis, Method of Expressing Concentrations, Primary and Secondary Standards [Introduction of pharmaceutical analysis– ii]	Swayamprabha	4 th April 2019
Prof. Asmita Gajbhiye	Polymer Sciences – I - Introduction, Classification and Pharmaceutical Applications of Polymers, Polymers as Thickening Agents, Preparing Polymer Solutions of Polymers [POLYMER SCIENCES – I	Swayamprabha	14 th Feb 2019
Prof. Umesh Patil	Introduction and scope of pharmaceutical sciences	Swayamprabha	14 th Feb 2019
Prof. Umesh Patil	Classification of Dosages Forms, Routes of Administration – I Pharmaceutical Additives: Source, Chemical Profile, Application and Interaction [Classification of dosages forms routes of administration-I and II]	Swayamprabha	13 th Feb 2019
Prof. Umesh Patil	Classification of Dosages Forms, Routes of Administration – I Pharmaceutical Additives: Source, Chemical Profile, Application and Interaction [Classification of dosages forms routes of administration-I and II]	Swayamprabha	13 th Feb 2019
Dr. S. K. Kashaw	Pharmaceutical aids and necessities – iv (Antioxidant theory, The selection of Antioxidants	Swayamprabha	13 th Feb 2019

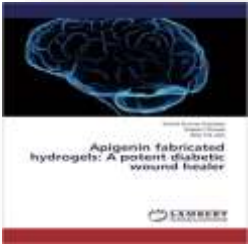
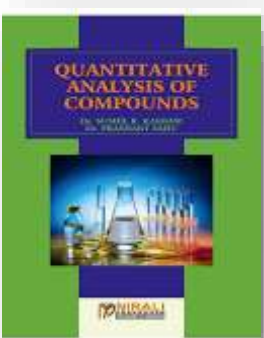
Dr. S. K. Kashaw	Drugs Acting on Hemopoetic Systems – I: Hematinics, Anticoagulants, Vitamin K and Haemostatic Agents Drugs Acting on Hemopoetic Systems – II: Fibrinolytic and Antiplatelet Drugs, Blood and Plasma Volume Expanders [Drugs Acting on Hemopoetic System-I & II]	Swayamprabha	13 th Feb 2019
Dr. S. K. Kashaw	Drugs Acting on Respiratory System – I: Antiasthmatic Drugs Including Bronchodilators Drugs Acting on Respiratory System – II: Antitussive and Expectorant, Respiratory Stimulants [Drugs acting on respiratory system-I -2]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Antineoplastic Agent – III: Alkylating Agents, Mechlorethamine, Melphalan, Busulphan, Mitomycin, Cisplatin; Antineoplastic Agent – IV: Alkylating Agent Carmustine, Lomustine, Cyclophosphamide, DNA Intercalating Agents, Doxorubicin, Daunorubicin, Mitoxantrine [Antineoplastic agents 3 + 4]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Antimalarials – I: Quinoline and Analogues, 8-Amino Quinolines, 9- Amino Acridines, 4- Amino Quinolines Antimalarials – II: Diamino Pyrimidine, Biguanides (Primaquin, Mepacrine, Chloroquin, Pyrimethamine) [Antimalarials]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Chemotherapy – III: Chemotherapy of Fungal Diseases, Urinary Tract Infections (UTI) and Sexually Transmitted Diseases (STD) (Chemotherapy– iii FUNGAL DISEASE)	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Chemotherapy – III: Chemotherapy of Tuberculosis and Leprosy [Chemotherapy of TB]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Chemotherapy – III: Chemotherapy of Tuberculosis and Leprosy [Chemotherapy of TB]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Sustained and Controlled Drug Delivery – I: Design and Development, Physico-Chemical, Biological and Pharmacokinetic Properties Influencing Design and Performance of Controlled Release Products [Sustained and controlled drug delivery – i]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Sustained and Controlled Drug Delivery – II: Materials and Methods Used in Their Formulation, Dose Designing, In Vitro and In Vivo Evaluation [Sustained and controlled drug delivery – ii]	Swayamprabha	5 th April 2019
Dr. S. K. Kashaw	Pharmaceutical aids and necessities – iv (Antioxidant theory, The selection of Antioxidants)	Swayamprabha	5 th April 2019
Dr. Dharmendra Jain	Introduction to IPR – I: Patent Act and Rules [Introduction to ipr 01]	Swayamprabha	5 th April 2019

Books Published by the Faculty (2015-20)

Faculty	Year	Number of Books
Prof. S. P. Vyas	2015	01
	2019	01
Prof. AsmitaGajbhiyePatil	2019	01
Prof. Umesh K. Patil	2018	01
Dr. Sushil K. Kashaw	2015	01
	2017	02
	2019	03

S.No.	Front Page	Book Details
1		Nanostructured Drug Delivery (Nanobiomedicine Series), Bhoopinder S. Bhoop, S.P.Vyas, & Indupal kaur, Studium Press, Llc, USA, 2015.
2		Introduction to novel drug delivery systems, SP Vyas, Roop K Khar, & Sonal Vyas, CBS Publishers & distributors, New Delhi, India, 2019.

3		In Vitro Experimental Pharmacology, Asmita Gajbhiye Patil (author), Shailendra Patil (author), Shweta Mishra (author), Debashree Das (author), CBS publishers and Distributors, ISBN: 9789388178938
4		Medicinal and Aromatic Plants of South America. Albuquerque, Ulysses Paulino, Patil, Umesh, Máthé, Ákos . Springer.2018. ISBN 978-94-024-1552-0
5		Text Book of organic name reactions, Sushil K. Kashaw & Vikas Mishra, CBS Publisher, 2015.
6		QSAR and docking studies of urea derivatives as antitubercular agents Shivangi Agrawal and Sushil K. Kashaw:, LAP Lambert Academic Publishing (2017-03-16), SBN-13: 978-3-330-05816-3, ISBN-10: 3330058161, EAN: 9783330058163, Pages: 88

7		Apigenin fabricated hydrogels:A potent diabetic wound healer Rajesh Shuckla and Sushil K. Kasahw:,LAP Lambert Academic Publishing (2017-06-28),ISBN-13: 978-3-330-34140-1, ISBN-10: 3330341408, EAN: 9783330341401, Pages 56.
8		Piperine loaded microspheres in hepotaoprotective Activity Prashant Sahu, Virendra Gajbhiye, Sushil K Kashaw: LAP Lambert Academic Publishing, 2019, ISBN- 978-659-83182-9, pages: 1-91.
9		Transdermal Nanogel therapy in the Management of skin cancer Prashant Sahu and Sushil K Kashaw:.. 2019, ISBN- 978-620-0-21117-0, pages: 1-166.
10		A book of Quantitative Analysis of Compounds Sushil K Kashaw & Prashant Sahu, Nirali Publication, Pune, Ed. 1. ISBN: 978-93-88897-60-0, 2019

Book Chapters (2015-2020)

Faculty	Years	Number of Book Chapters
Prof. S. P. Vyas	2015	12
	2016	04
	2017	03
	2018	03
	2019	04
Prof. S. K. Jain	2015	02
	2016	02
	2017	01
	2018	03
	2019	04
Prof. VandanaSoni	2015	01
	2018	04
	2019	07
Prof. Umesh K. Patil	2017	01
Dr. Sushil K. Kashaw	2017	02
	2018	03
	2019	02

MOUs

MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year 2015-2020 for the purpose to

- Promote & support Research, Education, & Training activities
- Exchange knowledge and human resources with the aim to promote quality education
- Improvisation and development of Pharmaceutical products
- Remediation of formulation related problems
- Apart from mutually agreed projects, neither party will have financial obligations

1	ICPA Health Products Ltd, Mumbai (MS) & Government College of Pharmacy, Aurangabad (MS) (06/06/2016)
2	Ideal Chemical Works Ltd, Kanpur (UP) 06/06/2016
3	Indian Herbs Specialities Pvt Ltd, Saharanpur (UP) 06/06/2016
4	Khandelwal Laboratories Pvt Ltd, Mumbai 06/06/2016
5	Modern laboratories, Indore (MP) 06/06/2016
6	Nandani Medical Laboratories Pvt. Ltd, Indore, (MP) 06/06/2016

7	Signa Pharma Pvt Ltd, Kanpur (UP) 06/06/2016
8	Zoetis Pharmaceutical Research Pvt. Ltd., Mumbai (MS) 06/06/2016
9	National Institute of Immunology, New Delhi 06/06/2016
10	National Institute of Pharmaceutical Education & Research, S.A.S. Mohali 06/06/2016
11	KLE University-Dr. Prabhakar Kore Basic Science Research Center, Belgaum 06/06/2016
12	CSIR-Advanced Materials & Processes Research Institute (CSIR-AMPRI), Bhopal (M.P.) 18/07/2018
13	Directorate of Industries, Department of Micro, Small & Medium Enterprises, Government of Madhya Pradesh 14/08/2019
14	Chhatarpur Sahu Ji Maharaj University, Kanpur (U.P.) 27/11/2020

Awards and recognition received by the faculty before 2015: 41

Awards and recognition received by the faculty (2015-20)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2015	Prof. S. P. Vyas	Professor	a). Rank first (Citation Repository on National Level) under subject scheme of Pharmacology and Pharmaceutics with SCOPUS citation domain b). Prof. R.K. Upadhyay National Teacher's excellence award
2015	Prof. Sanjay K.Jain	Professor	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.
2015	Prof. Sanjay K Jain	Professor	Award for excellence in research by EISRA Ayurveda opleidingen, The Netherlands
2015	Prof.Umesh K. Patil	Professor	a). ICMAP Representative for SAARC Countries b). International Council for Medicinal Plants Research (ICMAP)

2016	Prof. S.P. Vyas	Professor	Ranked First in India for research impact, citation and H- index evaluated & published Department of Science and Technology, Government of India
2016	Prof. S.P. Vyas	Professor	Nominated as a subject expert in the area of Novel drug delivery for new drug approval, Ministry of health & Family welfare, Government of India
2016	Prof. S.P. Vyas	Professor	Prof. Rudolph A. Marcus Award, Publishing Division of Cognizure and LOGNOR
2016	Prof. Asmita Gajbhiye	Professor	a) Mother Teresa Shiksha Rattan Award 2016 by IBC, New Delhi. b) National Mahila Rattan Gold Medal Award 2016 by IIEM, New Delhi.
2016	Dr. Sushil k Kashaw	Assistant Professor	a). Raman Post-Doctoral Fellowship by UGC b). Young Scientist Award-2016 by Association of Pharmacy Professionl's
2016	Shovanlal Gayen	Assistant Professor	Editor choice article received from Current Drug Discovery Technology Journal of Bentham Science
2017	Prof. Asmita Gajbhiye	Professor	(1) International Education Leadership award by Global Achievers Foundation, New Delhi. (2) Bharat Vidya Shiromani Award by IIEM, New Delhi.
2017	Dr. Sushil k Kashaw	Associate prof	Best teacher award in pharm chemistry from APTI M.P.Branch
2018	Prof. S.P. Vyas	Professor	UGC-BSR Faculty Fellowship
2018	Prof. Sanjay K. Jain	Professor	a). Visitor's Award by Honorable President of India b). Bentham ambassador of Bentham Publications
2018	Prof. Asmita Gajbhiye	Professor	Best Director Award in 6 th Academic Brilliance Awards-18 by EETCRS, Noida.

2018	Dr. Sushil K Kashaw	Associate prof	DBT International Travel Grant
2019	Prof. Sanjay K. Jain	Professor	Lifetime Achievement Award, MPCST sponsored National Seminar
2019	Prof. Asmita Gajbhiye	Professor	SAS Best Women Researcher Award – 2019 by SAS Society, Guwahati, Assam, India.
2020	Prof S.P. Vyas	Professor	recognized under WORLD TOP 2% SCIENTISTS as per the independent study reports of Stanford University scientists
2020	Prof S.K. Jain	Professor	recognized under WORLD TOP 2% SCIENTISTS as per the independent study reports of Stanford University scientists

CONSULTANCY

Teachers of the Department are actively involved in the development of pharmaceutical products in collaboration with pharmaceutical industries to generate corpus fund. Recently two of the department faculties Prof. S. K. Jain and Prof. U. K. Patil is working with Jeevan Herbs to develop herbal products.

EXTENSION ACTIVITIES

Curriculum development: industry people are associated with the department and they provide inputs of the current needs of the industry and ongoing changes in the field of pharmaceutical industry that would help in curriculum development.

Practice schooltraining: Students are benefitted by getting practice school training in their vacation period after six semesters. Collaborartion with various industries and Government hospitals providing the required industry exposure or learning about the clinical pharmacy, drug store management etc to the students.

Research, Publication:

- Outcomes of the research will be published in the journals of high repute.
- Faculty are motivated to take up inter - disciplinary projects and to participate in various conferences,
- Increased number of publications due to research awareness.
- Senior faculty of the department involved in consultancy services and provide their expertise for the improvement of product or to solve their problem.

TRAINING AND PLACEMENTS

The prime motive of our placement cell is to keep a pace with super sonic speed of 21st century and to preserve and develop a cordial association with all the recruiting industries, which metamorphoses our candidates with expertise and fitness, and are able to face this competitive era and provide a highly proficient and competent work force to the corporate segment.

Training activities are organized round the year in an effort for preparing the prospective candidates for the campus selection program and to develop their personality, communication skills, positive-attitude, team spirit, motivation and “Knowledge of Pharmaceutical job-opportunities”. Industrial tie-ups have been arranged with many companies. 100%+ job placement is assured. Maximum students of our department have either joined colleges for higher education or have been placed with good jobs in reputed Companies including-

S.No.	Company	LOGO
1	Macleods Pharmaceuticals Ltd., Mylon Ltd.	
2	Wave Pharma Ltd.	

3	Movilend Pharmaceuticals Ltd.	
4	Sunpharma Laboratories	
5	Alembic Pharmaceuticals	

LIST OF COMPANIES WHERE STUDENTS ARE PLACED – (LAST FIVE YEARS)

Name of Companies	Year of placement	Number of Students Placed
➤ Mylan Laboratories, Indore	2015-2016	24
➤ Mylan Laboratories, Indore ➤ Sun Pharmaceutical Industries Limited	2016-2017	20
➤ Mylan Laboratories, Indore ➤ Alembic Pharmaceuticals, Badodara, Gujrat	2017-2018	24
➤ Mylan Laboratories, Indore ➤ Macleods Pharmaceuticals Limited ➤ Waves Bio Tech (p) Ltd ➤ Movilend Pharmaceuticals (p) Ltd ➤ Sun Pharmaceutical Industries Limited	2018-2019	28

