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## Evaluative Report of School of Pharmacy-A

1. Name of the Department: **School of Pharmacy**
2. Year of establishment: **2001**
3. Is the Department part of a School/Faculty of the university? **School of Pharmacy is University Teaching Department.**
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): **B.Pharm, M.Pharm. (Pharmaceutical Chemistry), Ph.D.**
5. Interdisciplinary programmes and departments involved: **NIL**
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NIL**
7. Details of programmes discontinued, if any, with reasons: **NIL**
8. Examination System: **Semester**
9. Participation of the department in the courses offered by other departments: **NA**
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	<b>Sanctioned</b>	<b>Filled</b>	<b>Actual (including CAS &amp; MPS)</b>
Professors	05	0	0
Associate Professors	08	04+01*	05
Asst. Professors	13	06+02# +04**	06+02# +04**
Others (Visiting)	-	-	02

\* Promoted to Professor under CAS; # Promoted to Senior Lecturer under CAS

\*\*On Contract

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience (Teaching)	No. of Ph.D. students guided for the last 4 years
<b>Dr. Rajesh Sharma</b>	M. Pharm., Ph.D., MBA	Professor & Head	Medicinal and Pharmaceutical Chemistry	12 years 4 months	5
<b>Dr. G.P. Choudhary</b>	M. Pharm, Ph.D	Reader	Pharmacognosy	12 years 4 months	--
<b>Mrs. Tamanna Narsinghani</b>	M. Pharm	Reader	Medicinal and Pharmaceutical Chemistry	10 years	--
<b>Dr. (Mrs.) Nidhi Dubey</b>	M. Pharm, Ph.D	Reader	Quality Assurance	10 years	--
<b>Dr. Love Kumar Soni</b>	M. Pharm, Ph.D	Reader	Medicinal and Pharmaceutical Chemistry	9 years 10 months	--
<b>Dr. (Mrs.) Rashmi Dahima</b>	M. Pharm, Ph.D	Sr. Lecturer	Industrial Pharmacy	10 years	--
<b>Dr. Masheer Ahmed Khan</b>	M. Pharm, Ph.D	Sr. Lecturer	Industrial Pharmacy	9 years 9 months	--
<b>Dr. E. Manivannan</b>	M. Pharm, Ph.D	Lecturer	Medicinal and Pharmaceutical Chemistry	6 years 10 Months	--
<b>Dr (Mrs.) Anupama Parate</b>	M. Pharm, Ph.D	Lecturer	Medicinal and Pharmaceutical Chemistry	8 years 10 Months	--
<b>Dr. Mukesh Chandra Sharma</b>	M. Pharm. Ph.D	Lecturer	Pharmaceutical Chemistry	6 years 7 months	--
<b>Mr. Jitendra Sainy</b>	M. Pharm.	Lecturer	Pharmaceutical Chemistry	6 years	--
<b>Mrs. Apeksha Saraf</b>	M. Pharm.	Lecturer	Industrial Pharmacy	5 years 5 months	--
<b>Mr. Gajanand Engla</b>	M. Pharm.	Lecturer	Pharmaceutical Biotechnology	9 years	--

<b>Mr. Devashish Rathore</b>	M. Pharm.	Lecturer*	Pharmaceutics	2 year 3 months	--
<b>Mr. Mayank Sharma</b>	M. Pharm.	Lecturer*	Pharmaceutics	1 year	--
<b>Mr. Mahendra Chouhan</b>	M. Pharm.	Lecturer*	Pharmaceutics	1 year	--
<b>Mr. Manoj Rathore</b>	M. Pharm.	Lecturer*	Pharmacology	1 Year	--

\* On Contract

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: The School will contact eminent Professors in the field of Pharmacy to provide their consent for Emeritus Professorship for the academic year 2013-14.
13. Percentage of classes taken by temporary faculty – programme-wise information

Name of the course	Session	Percentage of classes taken
<b>B. Pharm</b>	July to Dec 2012	33%
	Jan to June 2013	36%
	July to Dec 2013	33%
<b>M. Pharm</b>	July to Dec 2012	0%
	Jan to June 2013	0%
	July to Dec 2013	0%

14. Programme-wise Student Teacher Ratio

Name of Programme	Year	Number of		Student : Teacher Ratio
		Students	Faculty	
<b>B. Pharm.</b>	2008	220	06+09*	15 : 1
	2009	193	10+05*	13 : 1
	2010	209	10+05*	14 : 1
	2011	178	10+02*	15 : 1
	2012	176	14	12 : 1
	2013	177	14	13 : 1
<b>M. Pharm.</b>	2008	15	02	7 : 1
	2009	16	03	5 : 1
	2010	27	03	9 : 1
	2011	34	03	11 : 1
	2012	20	03	7 : 1
	2013	06	03	0.5:1

\*Visiting Faculty

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Sanctioned Post	Designation (Non Teaching staff)	
	Technical	Non technical
	05	12

S. No.	Name of the employee	Designation	Qualification	Date of Joining
01	Mr. C.P.Kuril <sup>#</sup>	OSD	M.A, L.L.B	04/10/2006
02	Mr. Vivek Bobde	Accountant	M. Com.	03/02/2004
03	Mr. Sudhir Rasal *	L.D.C	12 <sup>th</sup>	02/01/2006
04	Mrs. Chetanya Singh	L.D.C	M.A.	02/08/2004
05	Mr. Suresh Prajapat <sup>1</sup>	Lab. Technician	B.Sc., P.G.D.C.A.	19/05/2006
06	Mr. Shyam Tiwari <sup>2</sup>	Lab. Technician	D. Pharm.	02/05/2006
07	Mr. Kailash Jamra <sup>3</sup>	Lab. Technician	B.Sc.	10/05/2006
08	Mr. Rajsingh Rathore	Lab. Attendant	10 <sup>th</sup>	25/05/2006
09	Mr. Jeevan Singh Chouhan	Store Attendant	8 <sup>th</sup>	01/05/2006
10	Mr. Naveen Pathak	Lab. Attendant	12 <sup>th</sup>	03/02/2004
11	Mr. Pyarelal Tilgoan	Book Lifter	M.A., B.Lib	03/02/2004
12	Mr. Jitendra Rangari	Class IV	8 <sup>th</sup>	03/02/2004
13	Mr. Manish Sharma	Animal House Keeper	B.A.	01/11/2005
14	Mr. Sukhsen Baiga <sup>4</sup>	Lab. Attendant	8 <sup>th</sup>	25/03/2006
15	Mr. Parmanand Saheriya	Lab. Attendant	5 <sup>th</sup>	12/04/2006
16	Mr. Radheshyam Yadav	Gardener	10 <sup>th</sup>	25/10/2005
17	Mr. Sitaram Yadav	Class IV	8 <sup>th</sup>	22/01/2010
18	Mr. Mahesh Chaware	Sweeper	8 <sup>th</sup>	12/01/2008
19	Mr. Jeevan Tamboli	Sweeper	10 <sup>th</sup>	01/03/2010
20	Mrs. Soniya Rai <sup>5</sup>	Lab. Technician	B. Sc.	10/11/2008
21	Mrs. Priyanka Jaiswal	Lab. Technician	B. Pharm	10/10/2011
22	Mr. Shivaji Rao Gajre	Non teaching staff on hourly basis	8 <sup>th</sup>	02/04/2013

<b>23</b>	Mr. Shubham Sainy	Non teaching staff on hourly basis	12 <sup>th</sup>	02/04/2013
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# Transferred to School of Electronics on 18/03/10

\*Attached with IMS, DAVV

<sup>1</sup> Resigned on 14/07/09

<sup>2</sup> Resigned on 06/02/09

<sup>3</sup> Resigned on 28/12/11

<sup>4</sup> Resigned on 29/03/11

<sup>5</sup> Not on duty from 08/09/11

16. Research thrust areas as recognized by major funding agencies:

- (i) Computer aided drug design, synthesis and biological evaluation of
  - anti-diabetic agents
  - anti-malarial agents
  - anti-tubercular agents
  - anti-cancer agents
- (ii) Evaluation of some indigenous anti-asthmatic drugs
- (iii) Exploration of tamarind seed polysaccharide as gelling agent for sustained ocular delivery of moxifloxacin.
- (iv) Formulation of a novel sustained release oral antidiabetic drugs combination through computer aided optimization and their evaluation.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

**1. Dr. Rajesh Sharma**

<b>S. No.</b>	<b>Title of the Project</b>	<b>Name of the funding Agency</b>	<b>Amount sanctioned [Rs. In Lakhs]</b>	<b>Duration</b>
<b>01</b>	Major Research Project: Computer aided drug design, synthesis and biological evaluation of novel anti-diabetic agents from naturally occurring lead compounds	AICTE, New Delhi	13,50,000/-	2010-2012

<b>02</b>	Major Research Project: Computer Aided Drug Design, Synthesis, and Biological Evaluation of DPP-IV inhibitors as anti-diabetic agents	UGC, New Delhi	10,09,800/-	2011-2014
<b>03</b>	Computer Aided Drug Design, Synthesis and Evaluation of some anti-malarial agents	MPCST, Bhopal	3,72,000/-	2011-2014

## 2. Dr. G. P. Choudhary

<b>S. No.</b>	<b>Title of the Project</b>	<b>Name of the funding Agency</b>	<b>Amount sanctioned [Rs. In Lakhs]</b>	<b>Duration</b>
<b>1.</b>	Major Research Project: Antihistaminic and mast cell stabilizing activity of some Indian medicinal plants	UGC, New Delhi	6, 08,800	2010-2013
<b>2.</b>	Evaluation of some indigenous anti-asthmatic drugs	AICTE, New Delhi	10,50,000	2010-2013
<b>3.</b>	Antitussive and mast cell stabilizing activity of some Indian medicinal plants	MPCST, Bhopal	1, 80,000	2010-2013

## 3. Dr. Love Kumar Soni

<b>S. No.</b>	<b>Title of the Project</b>	<b>Name of the funding Agency</b>	<b>Amount sanctioned [Rs. In Lakhs]</b>	<b>Duration</b>
<b>1.</b>	Major Research Project: Computer Aided Designing and Evaluation of New Anti-Tubercular Agents	UGC, New Delhi	10, 36,800	2010-2013

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#### 4. Dr. Rashmi Dahima

S. No.	Title of the Project	Name of the funding Agency	Amount sanctioned [Rs. In Lakhs]	Duration
1.	Exploration of tamarind seed polysaccharide as gelling agent for sustained ocular delivery of moxifloxacin.	MPCST, Bhopal	4,68,000	2011-2013

#### 5. Dr. Masheer Ahmed Khan

S. No.	Title of the Project	Name of the funding Agency	Amount sanctioned [Rs. In Lakhs]	Duration
1.	Major Research Project: Formulation of a novel sustained release oral antidiabetic drugs combination through computer aided optimization and their evaluation.	UGC, New Delhi	Rs. 708000/-	2012-2015
2.	Formulation through computer aided optimization of new extended release antidiabetic drugs combination containing two complementary therapies and their evaluation	MPCST, Bhopal	Rs. 1,44,000/-	2013-2014

#### 6. Dr. E. Manivannan

S. No.	Title of the Project	Name of the funding Agency	Amount sanctioned [Rs. In Lakhs]	Duration
1.	Design and synthesis of anticancer agents for breast and prostate cancer	AICTE, New Delhi	10,50,000	2009-12





S. No.	Name of the Faculty	No. of Papers published (2008-2013)
14	Mr. Devashish Rathore	02
15	Mr. Mayank Sharma	00
16	Mr. Manoj Rathore	00
17	Mr. Mahendra Chouhan	00
<b>Total</b>		<b>238</b>

\*Monographs: Nil

\*Chapters in Books:

Name of Faculty	Book Chapter
<b>Dr. (Mrs.) Nidhi Dubey</b>	<i>Validation of HPTLC Method<sup>p</sup></i> by Nitin Dubey, Nidhi Dubey and Dr. D.K. Jain in volume 1 of 3 volumes of <b>Sethi's HPTLC</b> , High Performance Thin Layer Chromatography: Quantitative Analysis of Pharmaceutical formulation (ISBN 978-81-239-2279-9) , First edition, Published in 2013 by CBS publishers and distributors, New Delhi, pp 117-207.

\* Edited Books: Nil

\*Books with ISBN with details of publishers: 02

1. Estimation and Validation Methods for Drotaverine and Nimesulide (2012) Prasad, R.K., **Sharma, R.** Lap LAMBERT Academic Publishing GmbH & Co., ISBN : 978-3-659-11588-2
2. Controlled Release Formulation of Antihypertensive Drugs Baviskar, D., **Sharma, R.**, Jain. D.K. (2011) Lap LAMBERT Academic Publishing GmbH & Co., ISBN: 3844392416.

\*Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\*Citation Index – range / average

Name	Citations
<b>Dr. Rajesh Sharma</b>	263
<b>Dr. G.P.Choudhary</b>	43
<b>Mrs. Tamanna Narsinghani</b>	27
<b>Dr. (Mrs.) Nidhi Dubey</b>	43
<b>Dr. Love Kumar Soni</b>	151
<b>Dr. (Mrs.) Rashmi Dahima</b>	20

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<b>Dr. Masheer Ahmed Khan</b>	-
<b>Dr. E. Manivannan</b>	158
<b>Dr. Anupama A. Parate</b>	-
<b>Dr. Mukesh C. Sharma</b>	686
<b>Mr. Jitendra Sainy</b>	27

\*SNIP      \*SJR   \*Impact Factor – range / average \*h-index

\*h-index

Name	h-Index
<b>Dr. Rajesh Sharma</b>	11
<b>Dr. G.P.Choudhary</b>	4
<b>Mrs. Tamanna Narsinghani</b>	4
<b>Dr. (Mrs.) Nidhi Dubey</b>	4
<b>Dr. Love Kumar Soni</b>	7
<b>Dr. (Mrs.) Rashmi Dahima</b>	3
<b>Dr. Masheer Ahmed Khan</b>	1
<b>Dr. E. Manivannan</b>	8
<b>Dr. Anupama A. Parate</b>	1
<b>Dr. Mukesh C. Sharma</b>	10
<b>Mr. Jitendra Sainy</b>	2

23. Details of patents and income generated

Name of Faculty	Number of patent filed
<b>Dr. Rajesh Sharma &amp; Dr. (Mrs.) Rashmi Dahima</b>	1. Gastro retentive cytoprotective drug delivery system (GR-CDDS) application No.2049/MUM/2008. 2. Milk powder as a super disintegrating agent application No. 892/MUM/2011.

24. Areas of consultancy and income generated: Efforts are being made. A task force has been setup in the University for consultancies.

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad: Nil

26. Faculty serving in  
a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Name of Faculty	Committees/Advisory/Editorial Boards
<b>Dr. Rajesh Sharma</b>	<b>Reviewer in</b> Indian Journal of Chemistry section B, Indian Journal of pharmaceutical Sciences, Medicinal Chemistry Research, Pakistan Journal of Pharmaceutical Sciences, Chemical industry and chemical engineering (quarterly). <b>Editorial Member of Journal of current pharmaceutical research</b>

<b>Mrs. Tamanna Narsinghani</b>	Reviewer in Elsevier (European Journal of Medicinal Chemistry, Chemical Biology and Drug Design), Springer (Medicinal Chemistry Research) etc.
<b>Dr. (Mrs.) Rashmi Dahima</b>	Associate editor of "Association of Pharmacy Professionals" established in 2011.
<b>Dr. Masheer Ahmed Khan</b>	Reviewer in Advances in Natural Sciences
<b>Dr. E. Manivannan</b>	Editorial board member in ISRN Pharmaceutics Journal, Hindawi Publishers, American Journal of Drug design and Development, Sci-Alert.
<b>Dr. Anupama A. Parate</b>	Editorial Board: Innovare Academic Sciences Pvt. Ltd- Pharmaceutical
<b>Dr. Mukesh C. Sharma</b>	<b>Reviewer</b> in Current-Computer aided drug design, Medicinal Chemistry Research, Supermolecular Chemistry, Arabian Journal of Chemistry, Journal of Saudi Chemical Society, SAR and QSAR in Environmental Research, Journal of Liquid Chromatography and Related Techniques, Letters in Drug Design & Discovery etc.
<b>Mr. Gajanand Engla</b>	1. Member of Advisory board of International journal of Pharmacy and Life Sciences. 2. Reviewer for Eurasians Journal of Analytical Chemistry

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- ✓ Teaching Learning Process Quality Workshop on 10.05.2013.
- ✓ Seminar on "Fostering Excellence in Research" at University Auditorium on 15.01.2013
- ✓ Academic Evaluation Criteria, Paper Setting and Evaluation Quality Workshop on 09.09.2012.
- ✓ CBCS and Design of Academic programs for student centric learning, Lecture by Prof. Rege, College of Engineering, Pune, May 15, 2013.

Academic Staff Development Programmes	Name of Faculty	No. of Programmes	Details of programme (Year, Topic, Place, Duration etc)
<b>Refresher Courses</b>	Dr. Rashmi Dahima	2	21 days Environmental education at Academic staff college, DAVV, Indore (2011)
			21 days on topic 'Recent trends in Chemistry' at Academic staff college, DAVV, Indore (2013)
	Mr. Gajanand Engla	1	UGC- Academic Staff College, Pt. Ravi Shankar Shukla University, Raipur (CG), from 01.12.2012-21.12.2012. Topic: Interdisciplinary and collaborative research in Pharmacy
	Dr. Anupama A. Parate	1	Three week UGC sponsored Refresher Course in Computer Application (Interdisciplinary) programme, 20th July to 9th August, 2012 held at Academic Staff College, Devi Ahilya Vishwavidyalaya, Indore (MP).
	Dr. Masheer Ahmed Khan	1	Three weeks UGC sponsored, Refresher Course- Pharmacy at Academic Staff College, Pt. R S Shukla University, Raipur From 01.12.2012-21.12.2012
	Dr. E. Manivannan	1	21 days on topic 'Recent trends in Chemistry' at Academic staff college, DAVV, Indore (2013)
	Dr. Mukesh C. Sharma	1	21 days on topic 'Recent trends in Chemistry' at Academic staff college, DAVV, Indore (2013)
	Mr. Jitendra Sainy	1	21 days on topic 'Recent trends in Chemistry' at Academic staff college, DAVV, Indore (2013)
<b>HRD programmes</b>			---
<b>Orientation programmes</b>	Dr. Rashmi Dahima	1	28 days UGC-Sponsored 97 <sup>th</sup> Orientation course at Academic staff college, DAVV, Indore (2010)
	Dr. Masheer Ahmed Khan	1	99 <sup>th</sup> Orientation Programme at Academic Staff College, DAVV, Indore M.P. From 09.02.2011-08.03.2011

	Dr. Mukesh C. Sharma	1	107 <sup>th</sup> Orientation Programme at Academic Staff College, DAVV, Indore M.P. From 14.06.2013-11.07.2013
	Mr.Gajanand Engla	1	UGC- Academic Staff College, Rani Durgavati Vishwavidyalaya, Jabalpur from 23/05/2011-16/06/2011
<b>Staff training conducted by the university</b>	Mrs. Tamanna Narsinghani	1	UGC-Academic Staff College Sponsored Short Term Programme on “ <b>Use of ICT/e-content for classroom teaching</b> ” organized by Academic Staff College, DAVV, Indore between 7 <sup>th</sup> – 12 <sup>th</sup> January 2013.
	Dr. Rashmi Dahima	1	One week on topic “Marketing Management” at I.M.S., DAVV, Indore
<b>Staff training conducted by other institutions</b>	Dr. Nidhi Dubey	1	One week AICTE-ISTE Short training programme from 19 <sup>th</sup> May to 24 <sup>th</sup> May, 2008 on Role of Regulatory Affairs in Context to Global Scenerio of Pharmacy, at A.R.College of Pharmacy, V.V.N, Gujarat.
	Dr. Rashmi Dahima	3	1. One week on topic “Office and finance management course” at R.C.V.P. Academy, Bhopal (2010) 2. One week on topic “Intellectual property rights- Patent drafting, procedure and policies” at M.A.N.I.T., Bhopal(2012) 3. One week training programme on topic “CPCSEA guideline” at Ballabhgarh, Faridabad from 29/07/13 to 02/08/13.
	Mr.Gajanand Engla	1	One week training programme on topic “CPCSEA guideline” at Ballabhgarh, Faridabad from 29/07/13 to 02/08/13.
<b>Summer/ Winter schools, workshops, etc.</b>			----

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28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: A compulsory project is included in under graduate and post graduate curriculum in final year wherein every student has to carry out a project.
- percentage of students doing projects in collaboration with other universities/ industry / institute: 8.33 % in 2012. Two students (Gaurav Mehta and Ankita Jain) carried out project in industrial collaboration.

29. Awards / recognitions received at the national and international level by

- Faculty

<b>Dr. G.P. Choudhary</b>	AICTE <b>Career Award</b> for Young Teacher-2010 (Rs. 10,50,000) “Evaluation of some indigenous anti-asthmatic drugs”.
<b>Dr. (Mrs.) Nidhi Dubey</b>	<ul style="list-style-type: none"> <li>• <b>Two</b> International Research papers received prestigious <b>8<sup>th</sup> Dr. P. D. Sethi Research Paper Annual Award-2012 (Certificate of Merit)</b> on fundamentals and application of HPTLC in Pharmaceutical and Herbal analysis. <ol style="list-style-type: none"> <li>1. <b>Dubey N.</b>, Dubey N., Mehta RS. (2012). Validation of a HPTLC and HPLC Methods for the Quantitative Determination of Allyl Disulphide in Some Polyherbal Oils Journal of AOAC International 95(6)1574-1578.</li> <li>2. Patel R., Patel M., Dubey N., <b>Dubey N.</b>, Patel B. G.(2012), HPTLC method development and validation: Strategy to minimize methodological failures. Journal of food and drug analysis. (FDA, Govt. of Taiwan publication) 20(4), 794-804 (<b>Impact Factor: 0.795</b>).</li> </ol> </li> <li>• <b>Two</b> International Research papers received prestigious <b>Dr. P. D. Sethi Research Paper Annual Award-2009 (Certificate of Merit)</b> on application of TLC/ HPTLC in Pharma, Herbal and Miscellaneous analysis. Both Papers have a impact factor of 1.543. The details of the papers are as follows: <ol style="list-style-type: none"> <li>1. Nidhi Dubey, Nitin Dubey, Rajendra Mehta &amp; Ajay Saluja; Estimation of catechin in Ayurvedic oil formulations containing Acacia catechu, Journal of AOAC International 92(4), 2009, 1021-1026.</li> <li>2. Nidhi Dubey, Nitin Dubey, Rajendra Mehta &amp; Ajay Saluja; Determination of Psoralen and Plumbagin from its polyherbal oil formulations by an HPTLC densitometric methods, Journal of AOAC International 92(3), 2009, 779-784.</li> </ol> </li> </ul>
<b>Dr. Love Kumar Soni</b>	Best paper award for poster presentation entitled “ Studies of Sun Protection factor of sunscreen cosmetic formulation for their selection and use” in international conference held at Department of Biotechnology/Zoology, Govt. College, Aron, M.P., India on 16-17 Feb 2013.
<b>Dr. (Mrs.) Rashmi Dahima</b>	APP young performer award as a speaker on topic “Recent challenges in pharmaceutical education & research”. [Sept



	2011].
<b>Dr. E. Manivannan</b>	Awarded Career Award for Young Teachers (CAYT) by AICTE, New Delhi.
<b>Dr. Mukesh C. Sharma</b>	VLife Best Publication Award 2013, VLife Science Pvt. Ltd., Pune.
<b>Mr. Gajanand Engla</b>	Best paper award for poster presentation entitled “ Studies of Sun Protection factor of sunscreen cosmetic formulation for their selection and use” in international conference held at Department of Biotechnology/Zoology, Govt. College, Aron, M.P., India on 16-17 Feb 2013.

- Doctoral / post doctoral fellows
  - ❖ Sudha Vengurlekar was awarded Senior Research Fellowship from CSIR, New Delhi.(2008-10)
  - ❖ Anupama Parate was awarded Junior Research Fellowship (2006-08) and Senior Research Fellowship (2008-09)
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Second Conference of Shanti Swarup Bhatnagar National Awardees (Biological, Chemical, Earth, Atmosphere, Ocean and Planetary, Engineering, Mathematical, Medical and Physical Science) was jointly organized by Faculty of Science, Life Sciences and Engineering Sciences at this University between 17<sup>th</sup> and 19<sup>th</sup> July 2009. The conference was supported by UGC, CSIR, ICMR, MPCST, DRDO and many other government organizations. Padma Vibhushan and distinguished nuclear scientist Dr. Anil Kakodkar, Chairman, Atomic Energy Commission of India and Secretary to Govt. of India, Department of Atomic Energy inaugurated the conference. Distinguished Space Scientist Dr. T.K. Alex, Director, ISRO Satellite Centre, Bangalore was Guest of Honour at this conference. These guests and 22 Shanti Swarup Bhatnagar National Awardees spoke at the Conference. These eminent awardees appreciated the objective of the conference and talked to the young students and participants about the thrills and excitements of scientific research.

A Rashtriya Vyakhanmala entitled “Vision of Mahamana Madan Mohan Malviyaji for Pharmacy Education in India” was organized on 3<sup>rd</sup> December 2012 at IMS Auditorium, Devi Ahilya Vishwavidyalaya, Indore.



31. Code of ethics for research followed by the departments  
Department strongly abide to the code of ethics of pharmacy profession. All the in - vivo studies which involve experimentation on laboratory animals like mice and rats are strictly adhered to Institutional animal ethical committee guidelines. No carcinogenic, radioactive and hazardous substances are used in the department which required additional care and safety. Department is providing platform for research work and publications. The Department offers due respect for Intellectual property rights of individual and institutions and explicitly acknowledge the work of others when referring to them in any shape, form or manner in his/ her own work. In addition, principles of ethical and social responsibility are also followed. Department has

published number of research papers in reputed journals. Some of them are Bio-organic and Medicinal Chemistry Letters, European Journal of Medicinal Chemistry, Current Nanoscience, Latin American Journal of Pharmacy, Asian Journal of Pharmaceutics, International Journal of Biology and Biotechnology and Journal of Natural Remedies.

32. Student profile programme-wise:

Name of the Course (refer to question no.4)		Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
B.Pharm	2013-2014	2805*	20	44	0.6	1.6
M.Pharm	2013-2014	19	00	01	00	0.05

\* Applications received for group C in CET-2013.

33. Diversity of Students:

Name of the Course/Year	% of the students from M. P. Board		% of the students from CBSE Board		% of the students from other Board		Total No. of Students	
	M	F	M	F	M	F	M	F
2013-2014	11	20	07	21	2	3	20	44

Name of the Course/Year	% of students from the same University		% of students from other Universities within the State		% of students from Universities outside the State		% of students from other Countries		Total No. of Students	
	M	F	M	F	M	F	M	F	M	F
2013-14	--	--	--	100	--	--	--	--	--	01

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

EXAMINATION	YEAR	NO. OF STUDENTS APPEARED	QUALIFIED	PERCENTAGE
GPAT	2010	48	32	66.66 %
GPAT	2011	45	24	53.33%
GPAT	2012	32	19	59.37%
GPAT	2013	12	06	50.00%
GRE	2008	03	01	33.33%

GRE	2009	01	01	100.00%
GRE	2010	02	02	100.00%
GRE	2011	05	04	80.00%
GRE	2012	03	03	100.00%
GRE	2013	03	03	100.00%
TOEFL	2008	03	01	33.33%
TOEFL	2009	01	01	100.00%
TOEFL	2010	02	02	100.00%
TOEFL	2011	05	04	80.00%
TOEFL	2012	03	03	100.00%
TOEFL	2013	03	03	100.00%
CAT	2010	04	01	25.00%
CAT	2012	03	01	33.33%
UPSC (Drug Inspector Recruitment)	2011	01	01	100.00%
Govt. Analytical	2012	01	01	100.00%
M.P. State Police Sub Inspector Recruitment	2012	03	01	33.33%
Dena Bank, Bank P.O. Recruitment	2012	03	01	33.33%
National Rural Health Mission Recruitment	2013	20	12	60.00%

35. Student progression

Student progression	Percentage against enrolled
UG to PG (B. Pharm to M. Pharm)	80
PG to M.Phil.	Not Applicable
PG to Ph.D. ( M. Pharm to PhD)	20
Ph.D. to Post-Doctoral	10
Employed	100
• Campus selection	33
• Other than campus recruitment	67
Entrepreneurs	-

36. Diversity of staff

<b>Percentage of Faculty who are graduates</b>	
of the same university	29 %

from other universities within the State	59%
from universities from other States	12%
from universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 08 (2009-13)

38. Present details of departmental infrastructural facilities with regard to

a) **Library:** There is a well equipped air conditioned library having 3494 printed books (books, back volumes and theses). Facilities for Internet access for e-journals, e-books, web tutorials and for download of e-contents are also there for students.

b) **Internet facilities for staff and students:** Internet facilities are available for both teacher as well as students. A separate computer lab with 15 computers having internet facility for UG students for enhancement of the IT ability of students. A computer aided drug design laboratory with 06 computers having internet facility is also provided to PG and research students. A central computing facility is provided through University IT Centre. It opens for 12 hrs every day.

c) Total number of class rooms: 05

d) Class rooms with ICT facility: 05

e) Students' laboratories: 15

f) Research laboratories: 03

Room No.	Room type (mention Class room / Lab.)	Carpet area (in sqm)	Completion of Flooring	Completion of Walls and painting	Completion of Electrification and lighting
<b>Class rooms with ICT facility</b>					
112	Class Room-I	92.8	Yes	Yes	Yes
211	Class Room-II	92.8	Yes	Yes	Yes
213	Class Room-III	92.8	Yes	Yes	Yes
214	Class Room-IV	76.76	Yes	Yes	Yes
311	Class Room-V	102.01	Yes	Yes	Yes
<b>Students' Laboratory</b>					
106	Instrument Room	77.77	Yes	Yes	Yes
109	Computer Lab	42.21	Yes	Yes	Yes
114	Machine Room	76	Yes	Yes	Yes

115	Pharmacology lab	76.76	Yes	Yes	Yes
	Animal room	26.4	Yes	Yes	Yes
101	APHE Lab	91.46	Yes	Yes	Yes
206	Pharmaceutical Chemistry lab	100.71	Yes	Yes	Yes
201	Aseptic Room	38.7	Yes	Yes	Yes
202	Microbiology Lab	77.77	Yes	Yes	Yes
302	Pharmaceutics	100.71	Yes	Yes	Yes
303	Biopharmaceutics-lab	75.6	Yes	Yes	Yes
304	Pharmaceutics Lab	75.6	Yes	Yes	Yes
305	Pharmaceutical Analysis Lab	100.71	Yes	Yes	Yes
310	Pharmaceutical Technology Lab	92.8	Yes	Yes	Yes
312	Pharmacognosy	92.8	Yes	Yes	Yes
313	Physical Pharmacy Lab	76.76	Yes	Yes	Yes
<b>Research Laboratory</b>					
103	Pharmaceutical Chemistry lab	100.71	Yes	Yes	Yes
116	CADD Lab	26.4	Yes	Yes	Yes
205	Major Instrument Room	38.7	Yes	Yes	Yes

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

<b>S.No.</b>	<b>Name of Doctoral Students</b>	<b>YEAR</b>
1.	Mr. Rajesh Kumar Maheshwari	2008
2.	Mrs Lata Banerjee	2008
3.	Mrs. Mona Nagar	2008
4.	Mr. Gajendra Pratap Choudhary	2009
5.	Mr. Masheer A. Khan	2009
6.	Mrs. Rashmi Dahima	2010
7.	Mr. Dheeraj T Baviskar	2010
8.	Mr. E. Manivannan	2010
9.	Mr. Gajanan N. Dharwekar	2011
10.	Mrs. Rooma Dhondge	2011
11.	Mrs. Anupama A. Parate	2012
12.	Mrs. Anurekha Jain	2012

13.	Mrs. Sudha Vengurlekar	2012
<b>S. No.</b>	<b>PhD Candidates</b>	<b>YEAR</b>
1.	Mr. G. P. Mishra	Pursuing
2.	Mr. Jitendra Sainy	Pursuing
3.	Mr. Mayank Sharma	Pursuing
4.	Mrs. Tamanna Narsinghani	Pursuing
<b>S. No.</b>	<b>Name of Project Fellows</b>	<b>YEAR</b>
1.	Shweta Birthare <sup>#</sup>	2010
2.	Devashish Rathore*	2011
3.	Swaraj Patil <sup>^</sup>	2011

<sup>#</sup> Joined on 17/08/10 and resigned on 15/02/12

\* Joined on 16/08/11 and resigned on 13/08/12

<sup>^</sup> Joined on 17/09/11

b) from other institutions/universities: Nil

40. Number of post graduate students getting financial assistance from the university: The financial Aids to the students are provided as per state govt. rules. All the students belonging SC/ST/OBC admitted to the department are provided scholarship. All GPAT qualified M. Pharm Students are financially assisted with the Scholarship as per AICTE regulations.
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Suggestion from technical experts, students and stakeholders were taken. Various key points like changing need of time, Global scenario of field and National level examination have been discussed. The issues are then discussed in departmental committee meetings for the need of changing the syllabus or introducing a new programme.
42. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes
  - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
Feedbacks are taken from students on regular basis. Feedbacks are analyzed and suitable measures are taken for further improvement.
  - alumni and employers on the programmes offered and how does the department utilize the feedback? Feedbacks are taken from alumni.
43. List the distinguished alumni of the department (maximum 10)

S.No.	Alumni	Course	Batch	Current Designation
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01	Dr. Rajesh Sharma	Ph.D	2005	Head, School of Pharmacy, DAVV, Indore
02	Dr. Hemant Joshi	Ph.D	2006	Head, Ujjain institute of Pharmaceutical Sciences, Ujjain
03	Dr. Sheetal Shahapurkar	Ph.D	2006	Manager in Lupin Pharmaceutical Limited, Pune
04	Mr. Rahul Mandsaurwale	M. Pharm	2004	Manager at Lupin Pharmaceutical Ltd, Maryland
05	Mr. Susheel Bendwal	B. Pharm	2005	PM marketing at Torrent Pharma
06	Mr. Gaurav Shastri	B. Pharm	2007	Project control officer at CSC
07	Mr. Mayur Saudawat	B. Pharm	2008	Senior officer production at Ranbaxy Labs, Dewas
08	Ms. Yeshonil Saini	B. Pharm	2008	Production planning at Sun polymer Indore
09	Akash Jain	B. Pharm	2009	Senior regulatory analyst at Kinapse, Gurgaon
10	Satyendra Yadav	M. Pharm	2012	PD chemist at Harshvardhan Labs, Indore
11	Vicky Daswani	B. Pharm	2009	Associate Business Consultancy at Sapient Corp., New Delhi
12	Indira Govlana	B. Pharm	2008	Bank PO at Allahabad Bank Ujjain
13	Nasir Ansari	B. Pharm	2008	Senior Executive at Piramal healthcare
14	Vikas Tiwari	B. Pharm	2008	TBM at Abbott healthcare, Indore
15	Aditi Sharma	B. Pharm	2009	QA Officer at Alpa Labs
16	Shubhi Kotiya	B. Pharm	2010	Product Manager, Pfizer, Mumbai
17	Amar Ajmera	B. Pharm	2005	Director of Ajmera Pharma
18	Sapna Dembla	B. Pharm	2007	Entrepreneur (OM collection)
19	Deepak Bhayal	B. Pharm	2008	Business (Ellora Medicose)
20	Sumit Chourey	B. Pharm	2008	Entrepreneur (TAB- food)
21	Somil Nevatia	M. Pharm	2012	Business

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

A seminar of national dignitaries was organized on 3<sup>rd</sup> December as a part of



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Rashtriya Vyakhyanmala by the department wherein Prof. Sushant Shrivastava, Prof. of Pharmaceutical Chemistry, Department of Pharmaceutical Engineering, Institute of Engineering and Technology, BHU, Varanasi and Prof. V. R. Sinha, Chairperson, University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh have delivered lecture on ‘drug abuse and its prevalence in Indian society’ and ‘drug delivery systems for various routes of administration’ respectively.

Department and its faculty put consistent efforts to improve communication skills and personality of students who join B. Pharm. and M. Pharm. course with varying backgrounds from different regions all over India. The institute always provides platform to the students for adequate development and growth in all respects like student psychology, profession and academics. A seminar for I, III, V and VII semester B. Pharm. students was organized on 27.07.2013 from 3:15 to 5:15 p.m. entitled “**Disha**” and “**Campus to Corporate**” by Mr. Saurabh Sharma, Speaker, CH Edgemakers.

A Seminar entitled “**The Dynamics of Indian Pharmaceutical Industry and Associated Career Opportunities**” was organized on 03/08/13 at School of Pharmacy, DAVV, Indore. The speaker of the seminar was Mr. Atul Verma, QA Manager (ex-employee) at Johnson & Johnson, Mumbai, Wockhardt Ltd., Aurangabad, Ranbaxy Labs, Dewas. Mr. Verma gave a very motivational lecture to encourage students of Pharmacy with respect to career opportunities. He presented the dynamics of Indian Pharmaceutical Industry and the associated career opportunities. He also listed the qualities required for a Pharmacist. He threw light on “The India Advantage” and also presented case studies to explain this. At the last, questions were invited from the audience, which were answered by the speaker and the audience was satisfied with the content of the seminar.

A short event for **story telling based on reality of life** was organized by FANKAR group on 10.08.2013, which enlightened students about their social responsibilities.

A seminar was organized entitled ‘**Art of Living**’ by Mr. Sunil Jain, Yes Foundation, on 13.09.2013. The seminar was appreciated by the students, wherein they are provided with some basics for living a peaceful life.

45. List the teaching methods adopted by the faculty for different programmes.

The faculty besides black board teaching has adopted Power Point Presentation mode, especially for demonstration exercises.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Our curriculum designed in such a way to enhance and provide updated information of theoretical as well as practical aspects of the pharmacy profession.

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Department is inculcating professional competencies, and also grooming overall personality of the students which is required to match the market needs. The examination Details show continuous progress of students. Many students are qualifying national as well as international level competitive exams for accomplishment of higher studies in various respects. Most of the passed out students who have qualified competitive exams like GRE, TOEFL, GPAT etc get fellowship and scholarship for higher studies. This year 50%, 100% and 100% of the students have qualified GPAT, GRE and TOEFL respectively, out of the total students appeared. The number of qualifying students is increasing continuously.

47. Highlight the participation of students and faculty in extension activities.

Department is a part of National Service Scheme (NSS) unit. More than 75 students actively participate in various activities which comprises of Plantation, NSS camping, Shram Daan shivir, cleaning of Khan River and generation of public environmental consciousness.

A pharmacist day was celebrated in the department wherein a Pharmacist Oath was taken by faculties and students.

A NSS cell has conducted an cleanliness drive of campus of our department in which all the NSS student of the department actively participated.

48. Give details of “beyond syllabus scholarly activities” of the department.

Apart from syllabus scholarly activities, various other events are also regularly organize by the department which includes cultural programmes, Sports, Inter-college Quiz competition, Special lectures given by renowned persons. One of the student of B. Pharm VII Sem has completed ‘Diploma in creative writing in English’ from IGNOU, New Delhi in 2013. She has published, an article in ‘The Indore Pride’ and wrote two subtitles for two documentaries which were featured in ‘Indore Film Festival’ in 2013. Besides this, she has also written lots of poetries for news papers.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Yes, The department is approved by both AICTE as well as PCI.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

To impart high quality education in field of pharmaceutical sciences and to make students expertise with practical aspects, they are taught with innovative methods, given proper laboratory training as well as industrial exposure in the

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reputed pharmaceutical industry. PG students are encouraged for quality research work, research publications and are provided with modern instrumental techniques and technology.

Apart from this, faculties are also encouraged to pursue research work, attend various conferences/seminar given by experts to update their knowledge and research profile as well. The research grants are given by different funding agencies like AICTE, UGC, MPCST for 10 projects. Present funding is approximately 60 lacs. The major areas of research are Antidiabetics, Antimalarials, Antihistaminic, Antiashtmatic, Antitussive, Antineoplastics.

Department has generated 45 B. Pharm, 15 M. Pharm and 1 PhDs in last academic year (2012-2013), While the total numbers of publication in the department for the year 2013 is 36.

**Research:** The school over the past 05 years has completed a UGC major research project related to Anti-inflammatory drug design; the findings were reported in major medicinal chemistry research journals. The papers got good citation report. The department has also applied for funds from DST-FIST for the development of computer aided drug design research project in the past. Research thrust areas of the school includes anti-inflammatory, anti-microbial drug design, anti-asthmatic herbal formulation development, Analytical method development for various pharmaceutical formulation. The faculties have published research papers in leading journals. Some of them are Bio-organic and Medicinal Chemistry Letters, QSAR and Combichem, Pharmazie, Indian Journal of Pharmaceutical Sciences, Current Nanoscience, Latin Journal of Pharmacy, Asian Journal of Pharmaceutics, International Journal of Biology and Biotechnology, Journal of Natural Remedies, Indian Journal of Chemistry and in many other journals and these publications have good impact factor.

#### **List of Research Papers (2008-30/06/13)**

1. Prasad, R.K., **Sharma, R.** (2013) In Silico 2D-QSAR Analysis of 2-Aryl Pyridine Inhibitors of Mitogen-Activated Protein Kinase-2 as Anti-Rheumatoid Arthritis Agents. American Journal of Phytomedicine and Clinical Therapeutics 1, 1-10 (ISSN No 2321-2748).
2. **Sharma, R.**, Patil, S. (2013) Pharmacophore Mapping, Docking and Three Dimensional QSAR Analysis of [(S)- $\gamma$ -(Arylamino)-Prolyl] Thiazolidine Compounds As a Potent and Stable DPP-IV Inhibitors. International Journal of Research in Pharmacy and Science 3, 105-118. (ISSN No. 2249-3522).
3. Jain, A., **Parate, A.**, Sharma, R. (2013) A rational design, synthesis, characterization, and antihypertensive activities of some new substituted benzimidazoles. Med Chem Res 10.1007/s00044-012-0462-7 (ISSN No. 1054-2523, Impact Factor: 1.058).
4. Vengurlekar, S., **Sharma, R.**, Trivedi, P. (2013) Synthesis, Antifungal Evaluation and Molecular Docking Studies on 2-Thioxoimidazolidin-4-One Derivatives. Medicinal Chemistry 9, 459-473. (ISSN No. 1573-4064, Impact Factor: 1.496).

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5. **Sharma, R.**, Khanna, S., Mishra, G.P. (2013) RP-HPLC method for simultaneous estimation of atenolol, hydrochlorothiazide and losartan in a tablet dosage form. *Chemical Science Transactions* 2, S1-S6. (ISSN No. 2278-3458).
  6. Baviskar, D., **Sharma, R.**, Jain, D.K. (2013) Modulation of Drug Release by utilizing pH-independent matrix system comprising water soluble drug verapamil hydrochloride. *Pakistan Journal of Pharmaceutical Sciences* 26, 137-144 (ISSN No. 1011-601X, Impact Factor: 1.103).
  7. **Sharma, R.**, Khanna, S, Mishra, G.P. (2012) Development and validation of RP-HPLC method for simultaneous estimation of ramipril, aspirin and atorvasatin, *E-Journal of Chemistry* 9, 2177-2184 (ISSN No. 0973-4945, Impact Factor: 0.716).
  8. Sharma, R., Panigrahi, D., Mishra, G.P.(2012) QSAR studies of 7 methyljuglone derivatives as antitubercular agents. *Med Chem Res* 21, 2006-2011 (ISSN No. 1054-2523, Impact Factor: 1.058).
  9. **Sharma, R.**, Yadav, R. , Manivannan, E. (2012) Study of effect of *Stevia rebaudiana bertonii* on oxidative stress in type-2 diabetic rat models *Biomedicine and Aging Pathology* 2, 126-131 (ISSN No. 2210-5220).
  10. **Sharma, R.**, Pathodiya, G., Mishra, G. P. (2012) Simultaneous estimation and validation of cefixime trihydrate and ornidazole in combined solid dosage form using hydrotropic solubilizing agent. *Novel Science International Journal of Pharmaceutical Science* 1, 589-594 (ISSN No. 2278-0033).
  11. Panigrahi, D., Mishra, G.P., **Sharma, R.** (2012) Study of stressed degradation behavior of drotaverine and development of a validated stability-indicating HPLC assay method. *Der Pharma Chemica* 4, 847-853 (ISSN No. 0975-413X).
  12. **Sharma, R.**, Patel, R., Patil, S. (2012) QSAR studies of potent inhibitors of malaria parasite dihydroorotate dehydrogenase by comparative analysis. *International Journal of Research in Pharmacy and Science* 2, 98-105 (ISSN No. 2249-3522).
  13. **Sharma, R.**, Khanna, S., Mishra G. P. (2012) Development and validation of RP-HPLC method for simultaneous estimation of losartan potassium and atorvastatin calcium in pharmaceutical preparations. *Journal of Pharmacy Research* 5, 398-400 (ISSN No. 0974:6943).
  14. **Sharma, R.**, Panigrahi, D., Mishra, G. P. (2012) Simultaneous Estimation and validation of drotraverine and omeprazole in solid dosage form using spectrophotometry method. *Journal of Pharmacy Research* 5, 161-164 (ISSN No. 0974:6943).
  15. Jain, A., **Sharma, R.**, Chaturvedi, S. C. (2011) Structural Insight for benzimidazole as angiotensin II AT<sub>1</sub> receptor antagonist by using molecular property and biological activity correlation: QSAR approach. *International Journal of Pharmacy and Pharmaceutical Sciences* 3, 541-546 (ISSN No. 0975:1491).
  16. **Sharma, R.**, Parate, A, Tiwari, A. (2011) Homology modeling of Dihydroorotase in *Plasmodium falciparum*. *Journal of Pharmacy Research* 4, 3096-3098 (ISSN No. 0974:6943).

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17. **Sharma, R.,** Pathodiya, G, Mishra, G. P., Sainy, J. (2011) A novel Spectrophotometric methods for quantitative determination of ciprofloxacin hydrochloride and tinidazole in tablets using hydrotropic solubilizing agent. *Journal of Pharmacy Research* 4, 859-861 (ISSN No. 0974:6943).
  18. **Sharma, R,** Mishra, G.P., Sainy, S., Chaturvedi, S. C. (2011) Synthesis and biological evaluation of 2-amino-5-sulfanyl-1,3,4-thiadiazole derivatives as antidepressant, anxiolytics and anticonvulsant Agents. *Med Chem Res* 20,245-253 (ISSN No. 1054-2523).
  19. Prasad, R. K., **Sharma, R.** (2011) 2D-QSAR analysis of pyrazinecarboxamides derivatives as herbicidal agents. *Journal of Computational Methods in Molecular Design* 1, 7-13 (ISSN No. 2231-3176).
  20. **Sharma, R.,** Pathodiya, G., Mishra, G. P., Sainy, J. (2010) Spectrophotometric methods for simultaneous estimation of paracetamol and diclofenac sodium in combined dosage form by application of hydrotropic solubilization. *Journal of Pharmaceutical Science and Research* 2, 821-826 (ISSN No. 0975-1459).
  21. Vengulekar, S, **Sharma, R.,** Trivedi, P. (2010) 2D and 3D QSAR Studies on benzyl-amide ketoacid inhibitors of HIV integrase and their reduced analogs. *Med Chem Res* 19, 1106-1120 (ISSN No.1054-2525, Impact Factor: 1.058).
  22. **Sharma, R.,** Pathodiya, G., Mishra, G. P., Sharma, M. C. (2010) Simultaneous estimation and validation of cefixime trihydrate and ornidazole in bulk and tablets using hydrotropic solubilizing agents. *Journal of Pharmacy Research* 3, 2953-2955 (ISSN No. 974-6943).
  23. Pradhan, J., **Sharma, R.** (2010) In vitro  $\alpha$ -amylase inhibitory and in vivo antidiabetic activity of *Abelmoschus esculentus* (L.). *Res Pharmaceutica*. 1, 1-5 (ISSN No. 2230-9470).
  24. Pradhan, J., **Sharma, R.,** Goyal, A. (2010) 3D-QSAR studies on 2-arylcarbonyl-3-trifluoromethylquin oxaline,4-di-N-oxide derivatives and their reduced analogous using K-NN MFA approach. *International Journal of Pharma Research and Development* 2, 1-13 (ISSN No. 0974-9446).
  25. **Sharma, R.,** Mehta, K (2010) Simultaneous Spectrophotometric Estimation of Tenofovir Disoproxil Fumarate and Lamivudine in Three Component Tablet Formulation Containing Efavirenz. *Ind J Pharm Sci* 72, 527-530 (ISSN No. 250-474X, Impact Factor: 0.455).
  26. **Sharma, R.,** Pathodiya, G., Mishra, G. P. (2010) Qualitative and Quantitative Estimation of Water Insoluble Drugs from its Formulations Simultaneously: a Hydrotropic Approach. *Stamford Journal of Pharmaceutical Sciences* 43, 37-42 (ISSN No. 1999-7108).
  27. **Sharma, R.,** Pathodiya, G., Mishra, G. P. (2010) A novel application of hydrotropic solubilization in development and validation of spectrophotometric methods for simultaneous estimation of Paracetamol and Diclofenac sodium in solid dosage form. *International Journal of Pharma and Bio Sciences* 1, 1-9 (ISSN No. 0975-6299).
  28. **Sharma, R.,** Gaikwad, P., Joshi, R. (2010) A novel application of hydrotropic solubilization for simultaneous estimation and validation of acetaminophen,

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- chlorzoxzone and aceclofenac in tablet dosage form. *Der Pharma Chemica* 2, 90-99 (ISSN No. 0975-413X).
29. Pradhan, J., **Sharma, R.** (2010) Quantitative Structure activity relationship study of new 2-aryl carbonyl-3-trifluoromethylquinoxaline 1,4-di-oxide derivatives and their reduced analogues. *International Journal of Pharmaceutical Education* 1, 7-19 (ISSN No. 2249-3875).
  30. Chandratrey, A., **Sharma, R.** (2010) Simultaneous spectrophotometric estimation and validation of three component tablet formulation containing paracetamol, nimesulide and tizanidine. *Ind J Chem Tech* 17, 229-232 (ISSN No. 971-457X).
  31. Prasad, R. K., **Sharma, R.**, Prajapati, G. L. (2010) Homology modeling and evaluation of human TEK tyrosine kinase using SWISS-Model workplace. *Journal of Chemical and Pharmaceutical Research* 2, 440-451 (ISSN No. 0975-7384).
  32. Prasad, R. K., **Sharma, R.** (2010) Simultaneous estimation and validation of rabeprazole sodium and diclofenac sodium in capsule dosage form. *Journal of Chemical and Pharmaceutical Research* 2, 186-196 (ISSN No. 0975-7384).
  33. Prasad, R. K., **Sharma, R.** (2010) 3D-QSAR analysis of new N-linked-5-tetrazolylmethyl Oxazolidinones derivative as anti-bacterial agents. *Der Pharma Chemica* 2, 241-248 (ISSN No. 0975-413X).
  34. Prasad, R. K., **Sharma, R.** (2010) Simultaneous Estimation and Validation of Drotaverine Hydrochloride and Nimesulide in Tablet Dosage form using Reversed Phase HPLC. *Der Pharma Chemica* 2, 141-151 (ISSN No. 0975-413X).
  35. Pattanayak, P., **Sharma, R.**, Sahoo, P.K. (2010) Synthesis and evaluation of 4-amino-5-phenyl-4H-[1,2,4] triazole-3-thiol derivatives as anti-microbial agents. *Med Chem Res* 19, 127-135 (ISSN No. 1054-2523, Impact Factor: 1.058).
  36. **Sharma, R.**, Mishra, G.P., Chaturvedi, S. C. (2010) Development and validation of RP-HPLC method for the simultaneous determination of rabeprazole sodium and itopride hydrochloride in solid dosage form. *E-Journal of Chemistry* 7, 947-952 (ISSN No.0972-4945, Impact Factor: 0.716).
  37. Debashish, P., **Sharma, R.** (2010) Simultaneous estimation of drotaverine and omeprazole in solid dosage form using UV-spectrophotometry method. *Indian Drugs* 47, 39-43 (ISSN No. 0019-462X).
  38. Dhal, S.K., **Sharma, R.** (2009) Development and Validation of an RP-HPLC Method for the Simultaneous Analysis of Pyridoxine Hydrochloride, Isoniazid, Pyrazinamide and Rifampicin in a Pharmaceutical Formulation. *Chemia Analytyczna (Warsaw)* 54, 1487-1500 (ISSN No. 0019-2223, Impact Factor: 0.56).
  39. Jain, V., **Sharma, R.** (2010) Simultaneous spectrophotometric estimation and validation of domperidone, tramadol hydrochloride and acetaaminophen in tablet dosage form. *Stamford Journal of Pharmaceutical Sciences* 3, 28-33 (ISSN No. 1999-7108).



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40. Pradhan, J., **Sharma, R.** (2011) Combined Antidiabetic Effect of metformin and Pterocarpus marsupin on alloxan induced diabetic rats. *Inventi Rapid: Ethano- pharmacology* 2, 249 (ISSN No. 976-3805).
  41. Prasad, R. K., **Sharma, R.** (2010) Spectrophotometric quantitative estimation and validation of Nimesulide and Drotaverine hydrochloride in tablet dosage form. *International Journal of Pharmaceutical Sciences and Drug Research* 2, 67-70 (ISSN No. 0974-4290)
  42. Baviskar, D., **Sharma, R.**, Jain, D.K. (2009) Determination of nifedipine in human plasma by tandem mass spectrometry. *Asian Journal of Chemistry* 21, 7309-7315 (ISSN No., Impact Factor: 0.267).
  43. Baviskar, D., **Sharma, R.**, Jain, D.K. (2009) Determination of verapamil in human plasma by tandem mass spectrometry. *Asian Journal of Chemistry* 21, 6785-6791 (ISSN No. 970-7077, Impact Factor: 0.267).
  44. Baviskar, D., **Sharma, R.**, Jain, D.K. (2009) High performance liquid chromatography method for determination of diltiazem in human plasma. *Asian Journal of Chemistry* 21, 5048-5054 (ISSN No. 970-7077, Impact Factor: 0.267).
  45. Baviskar, D., Girase, N. O., Deshpande, A. Y., Sane, R. T., **Sharma, R. B.**, Jain, D. K. (2009) HPLC method for determination of valdecoxib from pharmaceutical formulation by using rofecoxib as an internal standard. *Asian Journal of Chemistry* 21, 1002-1006 (ISSN No. 970-7077, Impact Factor: 0.267).
  46. **Sharma, R.**, Yadav, N., Mishra, G. P., Chaturvedi, S. C. (2009) Simultaneous determination and method validation of ceftriaxone sodium and salbactam sodium by reverse phase ion pair HPLC. *International Journal of Chemical Sciences* 7(4), 2285-2293 (ISSN No. 972-768X).
  47. Gupta, P., **Sharma, R.** (2009) A validated RP-HPLC method for simultaneous estimation of emitritabine and tenofovir disoproxil fumarate in a tablet dosage form. *Eurasian Journal of Analytical Chemistry* 4, 276-284 (ISSN No. 1306-3057).
  48. Pattanayak, P., **Sharma, R.**, Sahoo, P.K. (2009) Synthesis and evaluation of 2-amino-5-sulphanyl-1,3,4-thiadiazole as antidepressant, anxiolytic and anticonvulsant agents. *Med Chem Res* 18, 351-361 (ISSN No. 1054-2523).
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51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.
- Strengths:** Efficient faculty members with proficient knowledge, Blend of young and experienced team members, good infrastructure, interdisciplinary nature of academic programmes, Use of ICT Facilities, Teamwork, a good number of research projects fetched from funding agencies such as AICTE, UGC, MPCST etc.
- Weakness:** Deficiency of non-teaching staff, deficiency of additional application software, need of enhancing e-learning based teaching
- Opportunities:** Introduction of dual degree programme launched by AICTE New Delhi, Introduction of new PG programme, Scope of development of green belt near building of School of Pharmacy, Consultancy, Developing scientific temper, Industry-institute linkages

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**Challenges:** Development of national level research laboratories, Collaboration with leading national / international institutes/ universities/ R & D organizations, Virtual laboratory, Virtual class room, On-line tests.

**Threats:** Insufficient admissions in future in B. Pharm as well M. Pharm course due to increase in number of pharmacy colleges in the State compared to demand, Weak financial position because of self financing nature of department.

52. Future plans of the department.

1. Starting new PG courses in Pharmaceutics and Herbal Drug Technology.
2. Planning for Industrial/Institute collaboration
3. Enhancing Campus placement activities
4. Fetching more and more research grants from funding agencies.
5. Students Centric Learning
6. Strengthening of ICT facility

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### **Write up of efforts for Quality Sustenance and Assurance in the department- B**

Department has an Internal Quality Assurance Cell to monitor proper functioning of various departmental activities. Besides this, the expert suggestions are taken and incorporated for enhancement of academic and administrative activities. Students are provided guidance to excel in research activities and crack various competitive examinations.

The following efforts are helpful:

- The action plan was prepared by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year. For quality assurance, self analysis and feedback through discussion with academic peers and students was practiced.
- Students played a role in quality improvement by giving suggestions. Department worked with a goal to provide best possible knowledge in the field and for the overall development of the students through regular teaching, seminars and discussion with them.
- Regular updating of the course contents for advanced knowledge of various topics was done by the concerned teachers.
- Research activities were always encouraged and available facilities were provided to the students and other researchers of the university.
- Feedback from students, alumni and academicians was routinely taken, analysed and implicated for updating and development through such a practice the course paper.
- Participated in following IQAC lectures:
  - (i) Quality issues in Paper Setting and Evaluation, Sept. 28, 2012
  - (ii) Fostering Excellence in Research, Jan. 15, 2013
  - (iii) Quality issues in Teaching Learning Processes, May 10, 2013
  - (iv) CBCS and Design of Academic programs for student centric learning, Lecture by Prof. Rege, College of Engineering, Pune, May 15, 2013



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### **Declaration by the Head of the Department- C**

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the  
institution with seal:

Place:

Date: