

NAAC_SELF STUDY REPORT_SCHOOL OF PHARMACY

1. **Name of the Department-** SCHOOL OF PHARMACY Faculty of- LIFE SCIENCES
2. **Year of establishment-** 15 OCTOBER 2001

A.1 Academic programmes offered by the department at present, under the following categories and Sanctions pertaining to each of the Courses.

Programmes	Number	Course/Subjects
UG	1	B. PHARMACY
PG	1	M. PHARMACY (Pharmaceutical Chemistry)
Integrated Masters	--	--
M.Phil.	--	--
Ph.D.	1	PHARMACY
Integrated Ph.D.	--	--
Certificate	--	--
Diploma	--	--
PG Diploma	--	--
Any other (please specify)	--	--
Total	3	--

A.1.1 Details approval/recognition and recommendations issued by the statutory body (for example, (UGC, AICTE, NCTE, PCI, MCI, DCI) governing the programme in case of Professional Programmes letters for the first time and Last Academic Year recognitions:

Department is approved by both All India Council of Technical Education (AICTE), New Delhi and Pharmacy Council of India (PCI), New Delhi from 2001 to 2013-14. (File No. A.1.1)

If the department offers Distance Education Programmes (DEP) then

Number of programmes offered: N.A

Name of Each Programme

Letters for approvals by the Distance Education Council.

A.2 Copy of Ordinances related to the courses in the department (File No. A2)

B. Pharm - Ordinance No. 213 (Sent to Cordination Committee for final approval)

M. Pharm (Pharmaceutical Chemistry) - Ordinance No. 116 (Revised)

A.3 Number of working days during the last academic year: 292 (2012-2013)

Number of teaching days during the past four academic years.

189 (2008-2009)	181 (2009-2010)	185 (2010-2011)	183 (2011-2012)	184 (2012-2013)
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(‘Teaching days’ means days on which classes were engaged. Examination days are not to be included)

A.4 Number of positions in the Department, their appointment letters, joining reports and sanctions of each

Positions	Teaching faculty			Non technical	Technical staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC/University/ State Government	5	8	13	12	05
Recruited <i>Yet to recruit</i>	00 05	04+01* 03	06+02[#] 05	02 10	00 05
Number of persons working as Temporary Full Time Faculty(Contract)	00	00	04	11	04

* Promoted to Professor under CAS; [#] Promoted to Senior Lecturer under CAS

The above documents are provided in File No. A4 & A.7.7

A.4.1 Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor/Reader		Assistant Professor/Lecturer		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	01	--	02	01	03	02	09
M.Phil.	--	--	--	--	--	--	--
M. Pharm	--	--	--	01	02	01	04
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
M. Pharm	--	--	--	--	04	--	04
Part-time teachers (Courses Visiting Faculty)							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	01	--	--	01	02

Emeritus, Adjunct and Visiting Professors and their sanctions: The School will contact eminent Professors in the field of Pharmacy to provide their consent for Emeritus Professorship for the academic year 2013-14.

	Emeritus	Adjunct	Visiting
Number	Nil	Nil	Nil

A.5. Semester-wise Detail of Courses Visiting Faculty and their Sanctions

S. No.	Academic Session	Sem.	Course/ Subject	Name	Qualification	Teaching/ Research/ Industry Experience	No. of hrs. in the Sem.
July 2008 – Dec 2008							
01	2008-09	I	Remedial Mathematics	Mrs. Neetu Rawat	PG	--	56
02	2008-09	I	Remedial Biology	Dr. A.B. Seerwani	PhD	40+ Years	
03	2008-09	I	Computer Science	Mrs. Sunita Sharma	PG	4 years	73
04	2008-09	VII	Pathophysiology of Common Disease	Dr. Savita Vyas	PhD	15 ⁺ Years	12
05	2008-09	II (PG)	Bio-informatics	Dr. G.L. Prajapati	PG	11 Year	34
06	2008-09	I (PG)	DRA & IPR	Dr. S.B. Rijhwani	PhD	--	32
Jan 2009 – June 2009							
01	2008-09	II	Mathematics	Ms. Neetu Rawat	PG	6 months	54.5
02	2008-09	VI	Clinical Pharmacy	Dr. Savita Vyas	PhD	15 ⁺ Years	31
03	2008-09	VIII	Biopharmaceutics and Pharmacokinetics	Mr. G.N. Dharwekar	PG	--	20
04	2008-09	VI	Ind. Management & Accounting	Dr. Kapil Sharma	PhD	--	
05	2008-09	VI	Pharmaceutical Industrial management	Shri Deepesh Mahajan	MBA	7 Years	15
July 2009 – Dec 2009							
01	2009-10	I	Biology	Dr. A.B. Seerwani	PhD	40+ Years	101
02	2009-10	I	Mathematics	Ms. Neetu Rawat	PG	1 Year	61
03	2009-10	I	Computer science	Mr. Jogendra Dongre	M. Tech.	8 Years	62
04	2009-10	II (PG)	Bio-informatics	Dr. G.L. Prajapati	PhD	12 Years	26
Jan 2010 – June 2010							
01	2009-10	II	Mathematics	Ms. Neetu Rawat	PG	1.5 years	27.5
02	2009-10	VI	Pharmaceutical Industrial management	Shri Deepesh Mahajan	MBA	7 Years	22
July 2010 – Dec 2010							
01	2010-11	I	Biology	Dr. A.B. Seerwani	PhD	40+ Years	113
02	2010-11	I	Mathematics	Ms. Neetu Rawat	PG	2 years	28.5

03	2010-11	I	Computer science	Mr. Jogendra Dongre	M. Tech.	10 Years	83
04	2010-11	I	Mathematics	Mr. Manjoor Ahmed Lone	PG	1 Year	18
05	2010-11	I	CSPD	Ms. Reema Sukhija	PG	--	24.5
Jan 2011 – June 2011							
01	2010-11	II	Mathematics	Mr. Manjoor Ahmed Lone	PG	1.5 Year	
July 2011 – Dec 2011							
01	2011-12	I	Computer science	Mr. Jogendra Dongre	M. Tech.	11 Years	41
02	2011-12	I	Mathematics	Ms Sunaina Hedav	PG	4 Years	19
Jan 2012 – June 2012							
01	2011-12	II	Mathematics	Ms Sunaina Hedav	PG	4.5 Years	
July 2012 – Dec 2012							
01	2012-13	I	Computer science	Mr. Jogendra Dongre	M. Tech.	12 Years	16
02	2012-13	I	Mathematics	Ms. Shikha Chourasia	PG	---	46
Jan 2013 – June 2013							
01	2012-13	II	Mathematics	Ms. Shikha Chourasia	PG	8 months	23
July 2013 – Dec 2013							
01	2013-14	I	Mathematics	Ms. Shikha Chourasia	PG	1 Year 2 months	--
02	2013-14	I	Computer Science	Mr. Nand kishore buhada	PG	8 Years	--

Details of visiting faculty are provided in File No. A5.

A.6 Copies of Latest Biodata of Faculty in positions in the Department: Yes (File No. A.6)

A.7.1. Copies of Yearly Performa Based Assessment Details of Faculty in positions in the Department

Submitted to University Administration: Self Appraisal for year 2008-09 and 2009-10 and Performa Based Assessment Details For Year 2010-11 And 2011-12. Copies of PBAS and Self-Appraisal 2012-13 (File No. A.7.1)

3. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors) (2012-2013)**

Designation	Sanctioned	Filled
Professor	05	0
Associate Professors/Reader	08	05
Asst. Professors/Lecturer	13	08+04*

*Temporary Full Time Faculty (On contract at Basic Pay plus Grade Pay UGC Scale)

1 Associate Professor promoted to Professor and 2 Lecturer promoted to Senior Lecturer under Career Advancement Scheme.

4. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)

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

Saraf			Pharmacy	months	
Mr. Gajanand Engla	M. Pharm.	Lecturer	Pharmaceutical Biotechnology	9 years	--
Mr. Devashish Rathore	M. Pharm.	Lecturer*	Pharmaceutics	2 year 3 months	--
Mr. Mayank Sharma	M. Pharm.	Lecturer*	Pharmaceutics	1 Yr.	--
Mr. Mahendra Chouhan	M. Pharm.	Lecturer*	Pharmaceutics	1 Yr.	--
Mr. Manoj Rathore	M. Pharm.	Lecturer*	Pharmacology	1 Yr.	--

*Temporary Full Time Faculty (On contract at Basic Pay plus Grade Pay UGC Scale)

4. **List of Senior Visiting Fellows, Faculty, 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.
5. **Percentage of classes taken by Temporary Full Time Faculty – programme-wise information each semester wise information**

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

Percentage of classes taken by Visiting Faculty (Part Time) – programme-wise each semester wise information

Name of the course	Session	Percentage of classes taken
B. Pharm	July to Dec 2012	8%
	Jan to June 2013	5%
	July to Dec 2013	8%
M. Pharm	July to Dec 2012	0%
	Jan to June 2013	0%
	July to Dec 2013	0%

6. **Programme-wise Student Teacher Ratio**

Name of Programme	Year	Number of		Student : Teacher Ratio
		Students	Faculty	
B. Pharm.	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
M. Pharm.	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

7. Number of academic support staff (technical) and administrative staff: sanctioned and filled

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

[#] Transferred to School of Electronics on 18/03/10

*Attached with IMS, DAVV

¹ Resigned on 14/07/09

² Resigned on 06/02/09

³ Resigned on 28/12/11

⁴ Resigned on 29/03/11

⁵ Not on duty from 08/09/11

Details of non-teaching staff are provided in File No. A.7.7.

A.8 Students enrolled in the department during the current academic year 2013- 2014, with the following details:

Students	UG		PG		Integrated Masters	M. Phil.	Ph.D.		D.Litt. / D.Sc.
	*M	*F	*M	*F	*M *F	*M *F	*M	*F	*M *F
From the state where the university is located	62	105	02	03	NA	NA	02	02	NA
From other states of India	06	04	--	01			01	--	
NRI students	NIL						NIL		
Foreign students	NIL				NIL				
Total	68	109	02	04			03	02	

*M-Male *F-Female

Externally registered students? No

Yes No

If yes, how many students avail of this provision annually?

A.9 Calculation of 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component = Rs.

(b) excluding the salary component = Rs.

Year	Annual recurring expenditure		Total number of students enrolled	'Unit cost' of education	
	Including salary component	Excluding salary component		Including salary component	Excluding salary component
2008-09	78,06,000	40,25,000	235	33,217.02	17127.66
2009-10	72,06,000	26,40,000	209	34,478.47	12631.58
2010-11	98,78,100	27,10,000	236	41,856.36	11,483.05
2011-12	1,11,44,000	29,43,000	212	52,566.04	13,882.08
2012-13	1,15,69,000	17,24,000	196	59,025.51	8,795.92
2013-14	12133000	2278000	177	68548.02	12820.06

Details of unit cost of education are provided in File No. A9.

A.10 A. Faculty recharging strategies

- ✓ CBCS Workshop on 15.05.2013
- ✓ 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

A.8 B. Number and list of faculty with course details of faculty development programmes, academic staff college programs or other faculty recharge programs

Academic Staff Development Programmes	Name of Faculty	No. of programme	Details of programme (Year, Topic, Place, Duration etc)
Refresher Courses	Dr. Rashmi Dahima	2	21 days on topic ‘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. Masheer Ahmed Khan	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. 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)
HRD programmes			---
Orientation Programmes	Dr. Rashmi Dahima	1	28 days UGC-Sponsored 97 th Orientation course at Academic staff college, DAVV, Indore (2010)
	Dr. Masheer Ahmed Khan	1	99 th Orientation Programme at Academic Staff College, DAVV, Indore M.P. From 09.02.2011-08.03.2011

	Dr. Mukesh C. Sharma	1	107 th 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
Staff training conducted by the university	Mrs. Tamanna Narsinghani	1	UGC-Academic Staff College Sponsored Short Term Programme on “ Use of ICT/e-content for classroom teaching ” organized by Academic Staff College, DAVV, Indore between 7 th – 12 th January 2013.
	Dr. Rashmi Dahima	1	One week on topic “Marketing Management” at I.M.S., DAVV, Indore
Staff training conducted by other institutions	Dr. Nidhi Dubey	1	One week AICTE-ISTE Short training programme from 19 th May to 24 th 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 Ballabgarh, Faridabad from 29/07/13 to 02/08/13.
	Mr. Gajanand Engla	1	One week training programme on topic “CPCSEA guideline” at Ballabgarh, Faridabad from 29/07/13 to 02/08/13.
Summer/ Winter schools, workshops, etc.			---

A.11 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. (File No. A.11 & 2.3.13.A)
- 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.

A.12 Awards / recognitions received at the national and international level by Faculty

- 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

Dr. Love Kumar Soni	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.
Dr. (Mrs.) Rashmi Dahima	APP young performer award as a speaker on topic “Recent challenges in pharmaceutical education & research”. [Sept 2011].
Dr. E. Manivannan	Awarded Career Award for Young Teachers (CAYT) by AICTE, New Delhi.
Dr. Mukesh C. Sharma	VLife Best Publication Award 2013, VLife Science Pvt. Ltd., Pune.
Mr. Gajanand Engla	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.

All the details are given in File No. A.4 and 3.1.

Dr. G.P. Choudhary	AICTE Career Award for Young Teacher-2010 (Rs. 10,50,000) “Evaluation of some indigenous anti-asthmatic drugs”.
Dr. (Mrs.) Nidhi Dubey	<ul style="list-style-type: none"> • Two International Research papers received prestigious 8th Dr. P. D. Sethi Research Paper Annual Award-2012 (Certificate of Merit) on fundamentals and application of HPTLC in Pharmaceutical and Herbal analysis. <ol style="list-style-type: none"> 1. Dubey N., 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. 2. Patel R., Patel M., Dubey N., Dubey N., 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 (Impact Factor: 0.795). • Two International Research papers received prestigious Dr. P. D. Sethi Research Paper Annual Award-2009 (Certificate of Merit) 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"> 1. Nidhi Dubey, Nitin Dubey, Rajendra Mehta & Ajay Saluja; Estimation of catechin in Ayurvedic oil formulations containing Acacia catechu, Journal of AOAC International 92(4), 2009, 1021-1026. 2. Nidhi Dubey, Nitin Dubey, Rajendra Mehta & 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.

A.13 Detail of each of Seminar/ Conference/Workshop 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 17th and 19th July 2009. The conference was supported by UGC, Self Study Report of School of Pharmacy

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 3rd December 2012 at IMS Auditorium, Devi Ahilya Vishwavidyalaya, Indore. (File No. A.13, 3.6.2 & 3.1.11)



A.14 Write up of 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.

A.15 Student profile course-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

Admissions for B. Pharm are carried out through Common Entrance Test (CET) of DAVV, in which Pharmacy comes under group ‘C’. Total applications received in Group C are 2805.

A.16 Diversity of students

Name of the	% of the	% of the	% of the	Total No. of
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Course/Year	students from M. P. Board		students from CBSE Board		students from other Board		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

A.17 Number of students who have cleared Civil Services and Defence 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%

A.18 Detail of 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	-

A.19 Detail of Diversity of staff

Percentage of Faculty who are graduates	
of the same university	29 %
from other universities within the State	59%
from universities from other States	12%
from universities outside the country	NIL

A.20 Number of Faculty who were awarded Ph.D., D.Sc. and D.Litt. during the last four years: 08 (2009-13)

A.21 Present details of infrastructural facilities in the department 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
Class rooms with ICT facility					
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
Students' Laboratory					
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

Research Laboratory					
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

A.22 List of doctoral, post-doctoral students and Research Associates

a) from the host university

S.No.	Name of Doctoral Students	YEAR
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
S. No.	PhD Candidates	YEAR
1.	Mr. G. P. Mishra	Pursuing
2.	Mr. Jitendra Sainy	Pursuing
3.	Mr. Mayank Sharma	Pursuing
4.	Mrs. Tamanna Narsinghani	Pursuing
S. No.	Name of Project Fellows	YEAR
1.	Shweta Birthare [#]	2010
2.	Devashish Rathore [*]	2011
3.	Swaraj Patil [^]	2011

[#] Joined on 17/08/10 and resigned on 15/02/12

^{*} Joined on 16/08/11 and resigned on 13/08/12

[^] Joined on 17/09/11

The documents are given in File No. A.22.

b) from other universities: Nil

A.23 Details of financial assistance and Number of post graduate students getting financial assistance from the university, UGC, State, AICTE. 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. (File No. A.23)

A.24 Methodology of need assessment exercise undertaken before the development of new programme(s):

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.

A.25 Details of 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.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedbacks are taken from alumni. (File No. A.21)

A.26 List the distinguished alumni of the department (maximum 10)

S.No.	ALUMNI	Course	Batch	Current Designation
01	Dr. Rajesh Sharma	PhD	2005	Head, School of Pharmacy, DAVV, Indore
02	Dr. Hemant Joshi	PhD	2006	Head, Ujjain institute of Pharmaceutical Sciences, Ujjain
03	Dr. Sheetal Shahapurkar	PhD	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

A.27 Details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

A seminar of national dignitaries was organized on 3rd December as a part of 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.

A.28 Detail and List of 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. Details are provided in File No A.24.

A.29 Detail of Monitoring by 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. 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.

A.30 Details and Highlight of the participation of students and faculty in extension activities in the department.

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 a cleanliness drive of campus of our department in which all the NSS student of the department actively participated.

Details are provided in File No. A. 30 and 3.6.3.

A.31 Details of “beyond syllabus scholarly activities” of the department

Apart from syllabus scholarly activities, various other events are also regularly organized 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 poems for news papers (Details are provided in File No. A. 30 and 3.6.3).

A.32 Information about programme/ department accreditation/grading by other agencies? If yes, give details.

The department is approved by both AICTE as well as PCI. (File No. A.1)

A.33 Write up of 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 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, Antiasthmatic, Antitussive, Anticancer and Glaucoma.

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)- γ -(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).
5. **Sharma, R.**, Khanna, S., Mishra, G.P. (2013) RP-HPLC method for simultaneous estimation of atenolol, hydrochlorthiazide 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 drotaverine 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 AT₁ 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).
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 benzylamide 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 α -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 analogues 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, 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).
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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).
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 fumerate 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).
49. Pattanayak, P., Choudhary, Y. P., **Sharma, R.**, Mohapatra, P., Setty, D. K. (2009) Simultaneous spectrophotometric estimation of nitazoxanide and ofloxacin in combined tablet dosage form. *Research Journal of Pharmacy and Technology* 2, 291-293 (ISSN No. 0974-3618).
50. **Sainy, J.**, Mishra, G. P., Sharma, R., Chaturvedi, S.C. (2009) 2-amino-5-sulfanyl-1,3,4-thiadiazoles : A novel series of Anti-inflammatory and analgesic agents. *Pharm. Chem. J.* 43, 19-24 (ISSN No. 091-150X, Impact Factor: **0.476**).
51. Joshi, R., **Sharma, R.** (2008) Development and Validation of RP-HPLC Method for Simultaneous Estimation of Three Component Tablet Formulation Containing Acetaminophen, Chlorzoxazone, and Aceclofenac *Anal Lett* 41, 3297-3308 (ISSN No. 003-2719, Impact Factor: 1.06).
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A.34 Write up of 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

A.35 Details of any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength: Efficient faculty members with proficient knowledge, Blend of young and experienced team members, good infrastructure, interdisciplinary nature of academic

programmes, ICT Facilities, Teamwork, a good number of research projects fetched from funding agencies such as AICTE, UGC, MPCST etc.

Weakness: Requirement of additional teaching as well as non-teaching staff, requirement 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

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.

A.36 Write up of efforts for Quality Sustenance and Assurance in the department

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

CRITERION I: Curriculum Design and Development

1.1.1 Academic Year of Revision, Curriculum of Each Course, Objective and Course plans of each paper taught in the course: The main objectives of the department are to develop the intellectual and practical foundations among students and to benefit them from the latest advances of education in pharmaceutical field. The curriculum for both B. Pharm and M. Pharm has been revised for each subject in academic year 2010-11 in line with National guidelines. While the curriculum for PhD has been revised for both entrance as well as course work in academic year 2012-13. The curriculum of each course has been attached in File No 1.1.1

Whether uploaded on website
Yes No

1.1.1. A Eligibility for admission to each course

B. Pharm (4 Years): Through common entrance test (CET) conducted by the university. The candidates who have qualified Higher Secondary Examination (10+2) in Physics, Chemistry, Mathematics /Biology with aggregate marks of minimum 50% are only eligible for Common Entrance Test.

M. Pharm (2 Years):

Regular Category: An aggregate mark of 60% in B. Pharm (55 % in case of SC/ST) from a recognized university and GPAT qualified.

Sponsored Category: An aggregate mark of 60% in B. Pharm (55 % in case of SC/ST) from a recognized university and at least 2 years of working experience.

1.1.1. B Whether reflects Vision and mission reflection

Yes No

1.1.1C Write on reflection of vision and mission

Vision:

- ✓ To generate intellectual and environmentally; socially responsible manpower
- ✓ To develop curiosity and thirst of knowledge among the students.
- ✓ Constant academic excellence.
- ✓ To contribute towards the creation of a tolerant, equitable, enlightened and humane society.
- ✓ To inculcate environmental consciousness among the students

Mission:

To impart high quality education in the field of Pharmaceutical science and to give the students expertise with the practical aspects of the subjects and recent developments in the drug discovery and pharmaceutical research.

1.1.2 Details of process followed in last revision of Curriculum

A. Need Assessment

Need of Pharmacy courses are felt due to existence of drug industry in India and medical aid need in the Country. The department is committed to provide the best quality education to the student. The department follows the National curriculum for Undergraduate and Post-graduate Courses. The courses are basically technical in nature. They have been developed in line with needs of recent research trends in pharmaceutical field. The faculties were involved in deciding the need to redesign the curriculum.

B. Faculty involved in curriculum design (List of members)

The syllabus of B. Pharm and M. Pharm were approved by BOS of Pharmacy (2010 and 2011). Prof. M. R. Yadav, Head, Department of Pharmacy, Faculty of Technology, M. S. University, Baroda, Vadodara and Prof. D.K. Jain, Prof. & Principal, College of Pharmacy, IPS academy, Indore were coopted for member of BOS.

SYLLABUS REVISION COMMITTEE

S.No.	Subjects	Faculty member	External Expert
1.	Pharmaceutical Chemistry Organic	Mrs. Tamanna Narsinghani Mr. Mukesh C. Sharma	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof & Principal, IPS academy, Indore
2.	Pharmaceutical Chemistry Medicinal Chemistry-I, Medicinal Chemistry-II & Medicinal Chemistry-III	Dr. E. Manivannan Dr. Mrs. Anupama Parate	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof & Principal, IPS academy, Indore
3.	Pharmacology Pharmacology-I Pharmacology-II Pharmacology-III Pharmacology-IV	Dr. Rajesh Sharma Mr. Jitendra Sainy	Dr. Savita Vyas, Ass. Professor, MGM, Indore. Mr.P.Dixit, Asst.Professor, IPS Academy, Indore
4.	Pharmaceutical Biochemistry	Mrs. Tamanna Narsinghani Dr. Love Kumar Soni	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof & Principal, IPS academy, Indore
5.	Pharmaceutics Dosage Form Design Pharmaceutical Technology Pharmaceutical Engg.-I Pharmaceutical Engg.-I	Dr. Rashmi Dahima Dr. Masheer Ahmed Khan Dr. Nidhi Dubey	Dr. D.K. Jain, Professor, IPS Academy, Indore.
6.	Pharmacognosy Pharmacognosy-I Pharmacognosy-II	Dr. G.P. Choudhary	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof

	Pharmacognosy-III		& Principal, IPS academy, Indore
7.	Pharmaceutical Microbiology Pharmaceutical Biotechnology	Dr. Nidhi Dubey Mr. Gajanand Engla	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof & Principal, IPS academy, Indore
8.	Pharmaceutical Analysis Pharmaceutical Analysis-I Pharmaceutical Analysis-II Pharmaceutical Analysis-III	Dr. Rajesh Sharma Mrs. Tamanna Narsighani	Prof. M. R. Yadav, M.S. Univ. Baroda, Prof. D.K.Jain, Prof & Principal, IPS academy, Indore

C. Details of Departmental Committees/Board approvals of the designed curriculum: Yes (File No. 1.1.2.C)

D. Details of External Experts Opinion of the designed curriculum: Yes

E. Details of External Experts Feedback of the designed curriculum: Yes

F. Details of Student Feedback opinion on the existing curriculum

Feedbacks are taken from students on regular basis. Yes

G. Syllabi of National tests, Eligibility Tests and Examinations for example, GATE, NET, Service Commissions, National Councils, for the each curriculum, if any: Yes (File No. 1.1.2.G)

1.1.3 Detailed write up out each course in reference to

Global strategies have been introduced in the curricula of department to keep track of the global trends so that the students can develop global competencies and can achieve capability for employability, innovation and research. Projects are incorporated in the curriculum as well as professional and industrial training so that the students get a view of the outside world and prepare themselves accordingly.

*** Employability**

Our curriculum is designed and subjects are framed, while taking into account the future prospects in the field of pharmacy. There are good opportunities in pharmaceutical industry and departments like quality control, quality assurance and drug regulatory affairs. Subjects of pharmaceutical analysis, quality assurance, drug regulatory affairs, pharmaceutical jurisprudence and ethics are designed, which provides theoretical as well as technical knowledge to the students.

*** Innovation**

All profound innovation and creativity involves good understanding and knowledge (practical as well as theoretical) of particular subject. There are separate subjects in our curriculum specially designed to generate creativity and skills among the students. Examples are packaging technology, food technology and drug design, wherein students are provided with basic knowledge of the subject, its significance,

technology used, various innovative techniques, its application, related software (if any), new trends and its regulatory part.

* **Research**

Research is another important aspect in the field of pharmacy. This enables keeping pace with the challenging needs and changes in global market. Research orientation among a pharmacist can gradually be inculcated only from undergraduate level, which can be expanded at postgraduation level and further at doctoral level. Also pharmaceutical industry offers good scope in Research and Development department, Formulation and Development Department and Clinical trial department. SOP curriculum is comprised of subjects that could provide and improve student's orientation towards research. Examples are Dosage form design, Pharmaceutical Technology, Biopharmaceutics and Pharmacokinetics, Clinical Pharmacology, Medicinal Chemistry and Pharmacognosy.

1.1.4 **Detail of UGC/AICTE/National Council, Regulating bodies Guidelines for the development and restructuring the curriculum, if any:** Yes (File No. 1.1.4)

Department Faculty members, if any, involved in leading any curricular reform which has created a national impact? No

1.1.5 **A. Details of Interactions, Opinions and Feedbacks for the designed curriculum with External Research Bodies:** Yes

B. Details of Interactions, Opinions and Feedbacks for the designed curriculum with Industrial Experts, particularly in case of Professional Courses : Yes

C. Details of Interactions, Opinions and Feedbacks for the designed curriculum with Stake Holders, such as eminent personalities, Visitors to the departments, parents: Yes

D. Details of Alumni opinion on the existing curriculum (may be taken in an Alumni Register): Yes (File No 1.1.5 for A to D)

1.1.6 **List of Department Courses which are also introduced in University affiliated colleges also. List of colleges who introduced those courses:** Our department is a single University Teaching Department for Pharmacy of University. The other pharmacy colleges of the M.P. State are affiliated to other University (Rajiv Gandhi Technical University).

1.1.7 **Details of additional skill-oriented programmes designed for the colleges, Employees, Faculty relevant to regional needs**

Department gives great importance to value-based education. Seminars of dignitaries are organized regularly to impart values among the students. Students of B. Pharm. as well as M. Pharm. participated in various conferences and workshops for their academic improvement.

a) In the year 2010 a special lecture of **Swami Nitaychand (ISKCON temple, Indore)** on "positive habits" was organized for the students of B. Pharm and M. Pharm.

b) A **Rashtriya Vyakhanmala** on topic "**Vision of Mahamana Madan Mohan Malviyaji for Pharmacy Education in India**" was organized on **3rd December 2012** in continuation of celebration of his 150th Birth Anniversary.

- c) A Seminar entitled “ Science of life, Good health through yoga, How to gain self-confidence, Personality Development, Methods of energy Conservation, Tips for effective Meditation” was held on 15th March 2013 by socio-spiritual organization “All World Gayatri Pariwar (AWGP)” Shanti Kunj, Haridwar at School of Pharmacy.
- d) 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.
- e) 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.
- f) 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.
- g) 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.

1.2 Academic Flexibility

1.2.1 List of Courses taught in Department on campus

- * Overseas programmes offered on campus : NIL
- * Programmes available for colleges to choose from : NIL

1.2.2 Details on the following provisions with reference to academic flexibility

- a. List of Core/ Elective options: B. Pharm VIII Sem.
- b. List of Enrichment courses: CSPD, Computer sciences, Management.
- c. List of Courses offered in modular form : NA
- d. List of courses/papers with Credit accumulation and transfer facility: Planned for 2013-14.
- e. Details of Lateral and vertical mobility within and across programmes, courses and disciplines: Diploma of Pharmacy(D. Pharm) students can take admission in B.Pharm Second year (Lateral Entry)

1.2.3 Number of International students: NA

1.2.4 Number of Courses developed targeting international students, if any: NA

1.2.5 Number of dual degree and twinning programmes: NA

1.2.6 A. List of students, Admission Process, Fee structure of each programme:

B. Details of Teacher qualification and salary parity and differences (if any) at par with the aided programmes:

Permanent faculty members are provided with salary as per UGC VI pay commission guidelines and Temporary Full Time Faculties (Contract) are at a fixed salary of Rs. 21,600 p.m.(Basic Pay plus Grade Pay of UGC Scale)

(File No. 1.2.6 for A and B)

1.2.7 Operational details of distance Education Course in the department (if applicable) NA

1.2.8 Details of Choice Based Credit System (CBCS): The Curriculum is planned to have core course credits plus elective paper credits plus credits for interdisciplinary course in other department plus additional credit course for advanced learners.

1.2.9. Details of Departmental Academic Calendars of each semester:

Department Academic Calendar includes mentor allotment to new admittee – First week, Induction class (es); first week, Orientation courses- second week, Psychometric Test followed by counseling. (File No. 1.2.9)

1.2.10 Details of Inter-disciplinary programmes, Name of interdisciplinary program and details of students undertaken those programmes: Planning to introduce from 2013-14.

1.3 Curriculum Enrichment

1.3.1 A. Detail of academic years in which each of the courses was revised

B. Pharm/ M. Pharm I year syllabus revised in 2010.

B. Pharm II year to IV year syllabus revised in 2011.

PhD entrance test syllabus in 2012.

PhD course work syllabus in 2012.

B. Detail of review, up-gradation: Yes

C. Detail of social relevancy,

D. Detail of job orientation (Placement profile of students enclosed)

E. Detail of knowledge intensive nature of each course

F. Detail of meeting the emerging need of students

G. Detail of meeting the emerging need of stakeholders

The curriculum of the department is reviewed by the Academic Committee with the opinion of external experts to make the curricula socially relevant, job oriented and meeting the emerging needs of students and stakeholders. Department followed all the guidelines of AICTE.

Remedial classes following each test result for 10 days; Last month of a semester classes for Advanced Learners with Credit above 8. Calendar has days for sport activities, Indoor games, Competition, Quiz, Cultural activities, Feedback, Exam and Semester result declared.

(File No. 1.3.1 for A to G)

1.3.2 Details of the last four years during which how many new programmes at UG and PG levels were introduced

* Inter-disciplinary : Nil

* programmes in emerging areas : Nil

The School is involved in inter-disciplinary research with School of Life Sciences. Mr. Naveen Dhingra is pursuing Ph.D. at School of Pharmacy under the supervision of Dr. A. Kar, Professor, School of Life Sciences, DAVV, Indore and

- 1.3.3 A. Details of strategies adopted for the revision of the existing programmes**
The revision strategies involved emerging needs, needs of the society and at par with global development. The courses are focus on practical work and these have been included in the curricula with emphasis on training and research programmes.
B. Percentage of courses underwent a syllabus revision in last four years: 100%
- 1.3.4 A. Details of Value-added courses offered: Nil**
B. Details of these courses access to students: NA
- 1.3.5 Details of higher order skill development programmes in consonance with the national requirements (for example, innovative M. Tech. /M.E. Courses, CCNA, CCSP...):**
School is planning to introduce a Post Graduate Diploma in Drug Regulatory Affairs and Intellectual Property Rights.
- 1.4 Feedback System**
- 1.4.1 A. Copy of Feedback form to obtain feedback from students/student class representatives regarding the curriculum**
- B. Details of action and use of on feedback from students**
- Feedbacks are taken from students on regular basis. The Curriculum feedback is also part of that. Feedback obtained is first analyzed and discussed with departmental IQAC committee and later on discussed with faculty wherein suitable measures are taken for its implementation.
(File No. 1.4.1 for A to B)
- 1.4.2 A. Method used for eliciting feedback on the curriculum from national and international faculty: Yes using e-mail.**
B. Conducting webinars: Planned in 2013-14.
C. Curriculum development Workshops: Planned in 2013-14 on ‘How to make course plan student centric’.
D. Curriculum development online discussions: Discussion with external experts was held electronically (E-mail).
E. Impact of Workshop and discussions: Workshop planned in 2013-14.
- 1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of:**
Not required as no affiliated college is running B. Pharm course with this university.
- 1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the Department in ensuring the effective development of the curricula?**

- ❖ Revision of curriculum by the school to make it more comprehensive and in coordination with the present needs and in tune with the requirements and available opportunities of the area.
- ❖ IQAC Cell of the school constantly reviews syllabi of national level test and nationally reputed institutions of Pharmacy, e.g. syllabi of Gujarat Technical University, Punjab University, Chandigarh; Nirma University, West Bengal Technical University, Rajiv Gandhi Technical University, Bhopal; Dr Hari Singh Gaur University, Sagar; All India Council of Technical Education (AICTE), New Delhi; National Institute of Pharmaceutical Education and Research (NIPER), Mohali and syllabus of Graduate Pharmacy Aptitude Test (GPAT) for further upgradation of syllabus.
- ❖ Faculty is encouraged for active involvement in research and to attend training & Faculty Development Programs.
- ❖ Various committees are established to cater the needs in the field of placement, competitive examinations and personality development.
- ❖ The school has developed systematic mechanism to obtain feedback from Students, experts and alumni. This feedback is analyzed and discussed among faculty members during our staff meetings.

1.4.5 Any other information regarding Curricular Aspects which the UTD would like to include.

It has been found that introduction of innovative subjects, elective in VIII semester, Communication Skills and Personality Development in each semester, has increased technical knowledge and overall development of students, respectively.

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 Copy of Advertisements and website info for ensuring publicity and transparency in the admission process

Wide publicity for admission is ensured through advertisements in regional as well as National news paper and University website. Adequate time is given for submitting applications.

Transparency is maintained through return examination “Common Entrance Test” conducted by University for graduate students. GATE score, experience in industry and interview as per PCI norms were considered for post graduate course. Department displays the list of selected candidates in order of merit.

(File No. 2.1)

2.1.2 A. Write up details of the process of admission put in place by the department

B. List of the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed

B. Pharm: Entrance test at university level (Common Entrance Test)

M. Pharm: Merit of GPAT score and Interview for sponsored category students at departmental level.

2.1.3 Details of admission process in the affiliated colleges if department is monitoring the same: NA

2.1.4 Student profile analysis

Name of the Course	Applications received	Selected		Category	Selected student qualifying examination marks %			
		M	F		Male		Female	
					Max	Min	Max	Min
B. Pharm	2805	20	44	General	72.8	58.0	85.0	50.0
				OBC	72.0	64.6	77.0	53.6
				SC	75.0	61.2	77.6	57.0
				ST	--	--	63.0	--
M. Pharm	19	00	01	General	--	--	76.0	--
				OBC	--	--	--	--
				SC	--	--	--	--
				ST	--	--	--	--

2.1.5 Strategies adopted to increase/improve access for students belonging to the following categories:

The department strictly follows the rules laid down by both the university and the government of M.P. to ensure the transparency of the admission procedure.

- * **SC/ST/OBC:** Seats are reserved for SC, ST and OBC students in both the courses run by the department. These are all in accordance with Government policies. These students are given government scholarship for to increase access. Reservation is also provided in Hostels to enable them to access all facilities available in the University.
- * **Women:** Seats are reserved for women student as per state govt. policy. The positive impact of this is apparent from the high number of women student in both the courses run by the department.
- * **Persons with varied disabilities:** Department follows the reservation policy of the State Govt.
- * **Economically weaker sections:** Scholarships are provided to all the students coming from the economically weaker sections of society by State Government through the University.
- * **Outstanding achievers in sports and other extracurricular activities:** Awards and Scholarship.

2.1.6 Number of students admitted in department in the last four academic years: (B.Pharm. Students)

Categories	2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	10	3	5	1	1	4	6	4	4	0	6	4
ST	4	1	2	1	3	4	3	0	0	1	0	1
OBC	10	8	10	4	8	4	3	9	12	5	4	10
General	9	11	6	17	8	20	5	12	16	17	10	29
Others	--	--	--	--	--	--	--	--	--	--	--	--
Total	33	23	23	23	20	32	17	25	32	23	20	44

Total enrolled students	56	46	52	42	55	64
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(M.Pharm. Students)

Categories	2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	0	1	1	0	1	0	2	1	0	0	--	--
ST	0	0	0	0	0	0	0	0	1	0	--	--
OBC	1	0	1	0	4	1	2	0	0	1	--	--
General	1	5	3	3	3	10	3	7	1	2	--	01
Others	--	--	--	--	--	--	--	--	--	--	--	--
Total	2	6	5	3	8	11	7	8	2	3	--	--
Total enrolled students	8		8		19		15		5		01	

2.1.7 A. Details of demand ratio for the various programmes of the university departments

Programmes		Number of applications	Number of students admitted	Demand Ratio (Selected: Applied)
B.Pharm	2008-09	THROUGH COMMON ENTRANCE TEST, D.A.V.V.	55	--
	2009-10		46	
	2010-11		41	
	2011-12		31	
	2012-13		54	
	2013-14		2805	
M.Pharm	2008-09	82	8	8.2:1
	2009-10	156	8	15.6:1
	2010-11	102	19	5.67:1
	2011-12	89	15	4.94:1
	2012-13	11	5	0.61:1
	2013-14	19	1	0.053:1
Integrated Masters	Nil			
M.Phil.	Nil			
Ph.D. (2012-13)	13	3	4:1	
Integrated Ph.D.	Nil			
Certificate	Nil			
Diploma	Nil			
PG Diploma	Nil			
Any other (please specify)	Nil			

B. If yes then highlight the significant trends explaining the reasons for increase/decrease.

Demand ratio of PG course suddenly decreased in 2012-13 because of increase in number of colleges in State and Recession in Industry due to less demand to supply ratio.

- 2.1.8 A. Details of any programme discontinued/staggered in the last four years? : No**
B. If yes, write-up of the reasons: NA

2.1.9 Details of Admissions(2012-13)

Programmes	Total No. of admissions	No. of 1 st division pass students in qualifying	No. of 2 nd division pass students in qualifying	Entrance test Marks% (Min)
B.Pharm	64	55	09	Depends on cut off of CET
M.Pharm	01	01	--	Depends on cut off of GPAT
Integrated Masters	Nil			
M. Phil.				
Ph.D.	03	03	--	40
Integrated Ph.D.	Nil			
Certificate				
Diploma				
PG Diploma				
Any other (please specify)				

2.2 Catering to Diverse Needs of Students

2.2.1 A. Details of organization of orientation/ induction programme for freshers

Orientation class was conducted on 15/07/13. Orientation classes explained the ordinance for the course, teaching-learning evaluation procedures, assignments, class tests and quiz tests and student seminars and projects as part of Teaching-Learning processes. It also focused on the Code of Ethics of the department, its vision and mission, Alumni achievements, Learning Outcomes, Strengths and Weaknesses of the department. Future plans, opportunities and challenges, Quality Assurance Efforts and how to build career in research, higher education and industry.

Every year, an orientation program of fresher is conducted by the Vice Chancellor of the university in auditorium wherein all the aspects related with University, its Organization, Social, Environmental Development is discussed and students are inspired for enhancing their skills and knowledge. (Details attached)

B. Details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Duration of such course is 1-2 hrs wherein scope of the course, whole layout, organization and exam schedule of the department are discussed. There is a brief

introduction of all the teaching and non teaching staff of the department. Topics like students friendly nature of department, Placements and Anti ragging are also discussed.

2.2.2 A. Details of analysis of the “differential requirements of the student population” after admission and before the commencement of classes

Department is planning to maintain file for finding those, who need courses in English as well as a file of counseling after psychometric analysis in 2013-14.

B. Details of key issues identified and addressed:

The students are admitted on merit of examination ‘Common Entrance Test’ that gives an idea about the level of knowledge possessed by them. Communication skill, scientific interest, Career prospects and financial problems are some aspects discussed at time of interviews in M. Pharm.

2.2.3 A. Details of bridge/remedial/ add-on courses: Remedial classes following each test result for 10 days; Last month of a semester classes for advanced learners with Credit above 8.

B. Time table and details of the courses offered in the department-wise for all courses: Yes (File No. A.3)

2.2.4 A. Details of the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc

Special care was taken by the Faculty to improve the overall development of various weaker section of society. Students are encouraged to learn and develop skill. They are helped, guided and motivated in solving tutorials. They are also guided and inspired for various competitive exams.

B. Pharm		M. Pharm	
Name of the students	Category	Name of the students	Category
Bhojraj Yaduvanshi	OBC	Geetam Patodia	SC
Neha Saksedia	SC	Nikhilesh Rakeshia	SC
Sadaram Kirole	SC	Sunil Khanna	SC
Vandana Jatav	SC	Narendra Shinde	SC
Snehlata	SC	Satyendra Yadav	SC

B. Main findings?

The overall academic Details of weaker students has been enhanced tremendously by allotting mentors to them.

2.2.5 Details of identification and responses to the learning needs of advanced learners

All the students are provided with library which is well-stocked with books and journals. A separate computer laboratory with Internet facility is also provided for advance

learning. Besides, advanced students have no problem in obtaining individual guidance from faculty members.

2.3 Teaching-Learning Process

2.3.1 Details of Plan and organization of the teaching, learning and evaluation schedules (teaching plan, evaluation schedules and methods, etc.)

The academic calendar is prepared by the academic committee for each academic year as per AICTE/PCI norms. Each class has been allocated to a Faculty. Feedbacks are taken from students. A teaching chart is also filled by each of the Faculty per week. This chart contains teaching plan, topic covered by the Faculty per day in a week. Apart from this, Remedial classes and enrichment classes are taken by the Faculty for improving learning capability of learner. Evaluation is done within 7 days after commencement of exams. Students are evaluated on the basis of results and are guided for improvement in next session.

2.3.2 A. Details and website info of providing course outlines and course schedules prior to the commencement of the academic session

Syllabus, course plan of each course, links for web resources to each course and time table are available at university website. Students access this information electronically at commencement of academic session.

B. Methods used for effective implementation

Faculty strictly adheres to the course plan. Departmental IQA monitors effective implementation.

2.3.3 A. Details of difficulties in completing the curriculum within the stipulated time frame and calendar: No

B. Write up of the challenges encountered and the departmental measures to overcome these.

Delay in admission is a challenge in 2012-13. The semester activities were completed by extra classes.

2.3.4 A. Details of student-centric learning activities

Tutorials, assignments, project works and seminars are assigned to students. Besides, departments also organize group discussions, debates and public lectures.

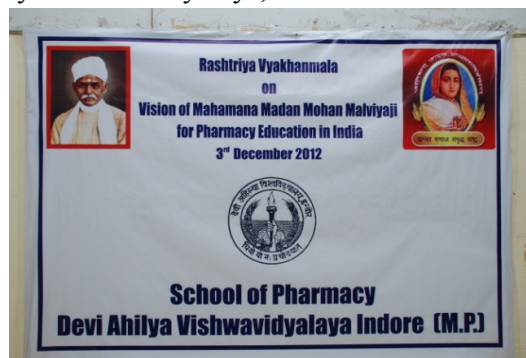
B. List of participatory learning activities which are adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Use of Multi media presentation, Internet and ICT facilities has been adopted by the Faculty. This led to improvement in student learning and knowledge.

(File No. 2.3.4 for A and B)

2.3.5 List, Details with photographs of activities such as invited experts/people of eminence to deliver lectures and/or organize seminars for students:

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



Invited experts	Prof. V. R. Sinha, Professor and Chairperson, U.I.P.S., Punjab University, Chandigarh.	03/12/2012
	Prof. Sushant Shrivastava, Department of Pharmaceutical Engineering, I.E.T., BHU, Varanasi	03/12/2012

- 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.



- 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.

2.3.6 Details of Encouragement to blended learning by using e-learning resources

Teaching using online literature, power point presentation is commonly used in department. These are uploaded on web site with links to web resources.
(Handouts are in File No 2.3.6)

2.3.7 Details of facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching

Multimedia presentation, Internet and ICT facilities have been used by all the teachers.
(File No. 2.3.7)

2.3.8 Details of activities of designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university’s educational processes:

Group e-mail IDs list is as follows:

S. No.	Name of Faculty	e-mail
01	Dr. Rajesh Sharma	rbsm73@yahoo.co.in
02	Dr. G.P. Choudhary	choudharygp@rediffmail.com
03	Mrs. Tamanna Narsinghani	kashishnarsinghani@rediffmail.com
04	Dr. Nidhi Dubey	nidhidubeympharm@yahoo.com

05	Dr. Love Kumar Soni	lovesoni@rediffmail.com
06	Dr. Rashmi Dahima	dahimarashmi@rediffmail.com
07	Dr. M. A. Khan	masheerak@yahoo.com
08	Dr. E. Manivannan	drmanislab@gmail.com
09	Dr. Anupama Parate	anupamaparate@gmail.com
10	Dr. Mukesh C. Sharma	mukeshsharma@yahoo.com
11	Mr. Jitendra Sainy	sainy_007@rediffmail.com
12	Mrs. Apeksha Saraf	apk_ip05@yahoo.co.in
13	Mr. Gajanand Engla	gajanand54@gmail.com

2.3.9 Details of steps taken to convert traditional classrooms into 24x7 learning places: It is proposed to convert by 2013-14.

2.3.10 A. Details of actions taken to avail the services of counsellors /mentors/advisors for each class or group of students for academic, personal and psycho-social guidance

Every faculty member counsel and provide academic and personal guidance to the student. Individual attention is given to each student for project work and training programmes in the department. Mentors were allotted for each student on admission. Mentor meets weekly the students to decide for academic, life and career problems.

B. Details of the process and the number of students who have benefited.

Guidance is provided to the students in as well as outside the classroom.

(File No. 2.3.10)

2.3.11 A. Details of innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years?

Use of Multi media presentation, Internet and ICT facilities has been adopted by the teachers so that to improve student learning and knowledge.

B. Write up of improvement in learning by innovative methods

It has been found that these methods are more effective mode to bring conceptual clarity of the students and also to uplift the student's IT skills.

C. Details of recognition to the faculty due recognition for innovation in teaching

Facilitation at the departmental meetings and functions.

2.3.12 Details of actions for creating e a culture of instilling and nurturing creativity and scientific temper among the learners

Industrial training and projects for graduate students has been incorporated in the curriculum. Also the students are encouraged and guided for research publications by the Faculty. Besides, regular assignments and seminars are conducted to inculcate technical knowledge, creativity and professionalism among the students.

(File No 2.3.12)

2.3.13 A. Details of student projects (if mandatory in each of the learning programme)

Projects are mandatory in each of the courses. Each student has to submit a project report to the department.

B. Number of projects executed within the university: 375.

C. Names of external institutions associated with the University for Student Project's Work: Wockhardt, Anchrom Enterprises

D. Role of faculty in facilitating such projects

Faculty help in successful completion of project by providing guidance and cooperation in literature review, procurement of chemicals, study materials etc. Also, they regularly take follow-up of practical laboratory work carried out by students to ensure quality in research work.

(File No. 2.3.13 for B and C)

2.3.14 A. Details of shortfall in qualified faculty to meet the requirements of the curriculum: The entire Faculty is qualified.

B. Details of actions for shortfall supplementation.

NA

2.3.15 Number of percentage of faculty enabled to prepare computer-aided teaching/ learning materials

All faculty members are enabled to prepare computer-aided teaching/learning materials.

2.3.16 A. Details of Student feedback for evaluation of teachers by the students.

B. Details of Alumni feedback for evaluation of teachers by the students

C. Methods used and Impact of the evaluation feedback used to improve the quality of the teaching-learning process

Interactive lectures, Demonstration-cum-lecture, Lecture with OHP / PPT, use of Case studies and tutorials, Assignments/ projects, Students Seminar etc. are the methods used to enhance teaching-learning evaluation process. The implementation of feedback evaluation for improving teaching-learning process has shown the improvement in study skills, technical knowledge and fostering self-learning,

(File No. 2.3.16 for A and B)

2.4 Teacher Quality

2.4.1 Details of how the plan and management of human resources was done to meet the changing requirements of the curriculum

Total numbers of teaching hours are distributed as per the AICTE/PCI norms to individual faculty members of the department. This enables department to meet the requirements of the curriculum. Visiting faculty are also appointed in specific specialized courses.

2.4.2 Diversity in its faculty recruitment

Department / School	% of faculty from the same University	% of faculty from other Universities within the State	% of faculty from Universities outside the State	% of faculty from other Countries
School of Pharmacy	29%	59%	12%	Nil

2.4.3 A. List of qualified faculty appointed for new programmes/emerging areas of

study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Information Technology, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)?

Emerging subjects like Biostatistics and Bioinformatics are introduced in M. Pharm course. Dr. Rajesh Sharma and Mr. Gajanand Engla deliver lectures about these innovative subjects and guide the students.

B. Number of faculty members appointed to teach new programmes during the last four years: 01

2.4.4 List of academic recharge and rejuvenation of teachers

A. List of faculty availed and provided research grants by the University:

Not required as research grants are available from external funding agencies. University provides reimbursement of membership fee for top international school in Pharmacy. University provides reimbursement of Internet charges up to Rs. 650/- p.m. to those guiding PhD.

B. List of faculty availed and on study leave

Name of Faculty	AVAILED AND ON STUDY LEAVE
Dr. E. Manivannan	Availed 1 Year study leave during 1/12/2011 to 11/12/2012

C. List of faculty nominated to national/international conferences/seminars, in-service training, organizing national/international conferences etc.

Name	Conference
Dr. Rajesh Sharma	64 th Indian Pharmaceutical Congress Association (IPCA), Chennai, India in December 2012. One day International seminar organized by Rajiv Gandhi Technological University, Bhopal in April 2008.
Mrs. Tamanna Narsinghani	Presented Paper at 71 st International Pharmaceutical Federation, Hyderabad: Jain, R., Narsinghani, T., Soni, L.K, Synthesis and Biological Evaluation of Some 1-Aroyl-3-Aryl Thioureas as Antibacterial Agents (Poster Presentation), 71 st FIP, Hyderabad-2011, MPC-13.
Dr. (Mrs.) Nidhi Dubey	Participated as member local organizing committee and chaired a scientific session in an international conference on Pharmacovigilance and Clinical Research Regulatory and Ethical concerns around the globe, from 26 th -27 th Feb.2011, organized by Pharmanext with Goa College of Pharmacy, Goa.
Dr. E. Manivannan	Nominated and awarded travel grant for attending “European drug discovery event-Miptec-2012” held at Basel, Switzerland.
Mr. Jitendra Sainy	Nominated for best poster presentation award for “European

2.4.5 List of faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years: Nil

2.4.6 List of faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Academic Staff Development Programmes	Name of Faculty	No. of Programme	Details of programme(Year, Topic, Place, Duration etc)
Refresher Courses	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. Masheer Ahmed Khan	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. 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)
HRD programmes			---
Orientation Programmes	Dr. Rashmi Dahima	1	28 days UGC-Sponsored 97 th Orientation course at Academic staff college, DAVV, Indore(2010)
	Dr. Masheer Ahmed Khan	1	99 th Orientation Programme at Academic Staff College, DAVV, Indore M.P. From 09.02.2011-08.03.2011
	Dr. Mukesh C. Sharma	1	107 th 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

Staff training conducted by the university	Mrs. Tamanna Narsinghani	1	UGC-Academic Staff College Sponsored Short Term Programme on “Use of ICT/e-content for classroom teaching” organized by Academic Staff College, DAVV, Indore between 7 th – 12 th January 2013.
	Dr. Rashmi Dahima	1	1 week on topic “Marketing Management” at I.M.S., DAVV, Indore
Staff training conducted by other institutions	Dr. Nidhi Dubey	3	<p>1. Two weeks AICTE-ISTE Short term training programme from May 25th to June 5th, 2004 on Recent Trends in Industrial Pharmacy, at A.R.College of Pharmacy, V.V.N, Gujarat.</p> <p>2. Two weeks ISTE Short term training in june-july 2005 on Multimedia Based Learning Material at S.G.S.I.T.S, Indore.</p> <p>3. One week AICTE-ISTE Short training programme from 19th May to 24th May, 2008 on Role of Regulatory Affairs in Context to Global Scenerio of Pharmacy, at A.R.College of Pharmacy, V.V.N, Gujarat.</p>
	Dr. Rashmi Dahima	3	<p>1. 1 week on topic “Office and finance management course” at R.C.V.P. Academy, Bhopal (2010)</p> <p>2. 1 week on topic “Intellectual property rights- Patent drafting, procedure and policies” at M.A.N.I.T., Bhopal(2012)</p> <p>3. Training programme on topic “CPCSEA guideline” at Ballabgarh, Faridabad from 29/07/13 to 02/08/13.</p>
	Mr. Gajanand Engla	1	Training programme on topic “CPCSEA guideline” at Ballabgarh, Faridabad from 29/07/13 to 02/08/13.
Summer / Winter schools, workshops, etc.		---	

2.4.7 Percentage of the faculty have

- * been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies = 12 %
- * participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies = 100%
- * presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies = 76%
- * teaching experience in other universities / national institutions and other institutions = 70%
- * industrial engagement = 24 %
- * international experience in teaching = 0%

2.4.8 List and details of organization of academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process

Academic Staff College of university organizes refresher course and orientation

programs in various disciplines for the teachers.

3.4.9 A. List of faculty encouraged

* **Mobility of faculty between Universities for teaching** : No

* **Faculty exchange programmes with national and international bodies:** No

B. Details of schemes helping in enriching the quality of the faculty by such mobility and faculty exchanges: NA

2.5 Evaluation Process and Reforms

2.5.1 A. Details of time taken by the department for declaration of examination results each semester

B. Details of means adopted for the mode / media adopted for the publication of examination results (Website, SMS, email, etc.). :

The results are declared by the department on the departmental notice board as well as website. Award list are issued to the students with in 1 week.

(File No. 2.5.3 for A and B)

2.5.2 A. Details of ensuring transparency in the evaluation process

The examination system of department is fair, efficient, reliable and transparent. Department has a good Details in smooth conduction of examinations and timely declaration of results. Steps have also been taken to minimize the errors, mistakes and ensure better accuracy, efficiency during paper setting, assessment, entry of marks on the answer books, mark lists, statements of marks, and issue of various certificates, including the mark sheets. The students are shown evaluated copies and best answers at the end of each test and semester examination. The Faculty discusses the answers with each student. When a student is unsatisfied with evaluation, she or he can represent to experts at the end-semester comprehensive viva voce examination.

B. Measures taken to ensure confidentiality

Department has separate examination office; wherein entry of personnel is prohibited. All the data relating to examination are securely stored in hard copies as well as on CDs. Examination Committee is constituted. Only committee members are allowed to access the examination section.

C. Details of the Pre-examination processes – Examination Time table generation, student list generation, Invigilators, Attendance sheet: (File No. 2.5.4)

D. Results of students course wise and its analysis

Name of the Course (refer to question no. 4)	Pass percentage		Pass with Honours		Pass with First Class		Pass with Second class	
	M	F	M	F	M	F	M	F
B. Pharm (2008)	85.71%	95.45%	2	1	25	20	04	01
B. Pharm (2009)	91.43%	100%	1	4	28	18	07	02
B. Pharm (2010)	100%	95.45%	2	4	19	21	01	02

B. Pharm (2011)	96.15%	96.3%	2	3	25	23	06	01
B. Pharm (2012)	100%	100%	2	3	21	22	05	01
B. Pharm (2013)	100%	100%	1	5	17	23	05	00

2.6. Student Performance and Learning Outcomes

2.6.1 A. Write up of articulation of its Graduate Attributes of the department

Graduate attributes of the department students are

- High professional skill
- Ethical, socially and environmentally conscious students.

The high percentage of students clear National test, which shows their enhanced professional skill.

B. Details of facilitation of monitor the implementation and outcome

A Faculty member monitors the student's outcomes by Detailing their proceeding for higher studies and jobs after course. A Faculty member monitors the changes in pass percentages and number of first divisions.

2.6.2 A. Detail of learning outcomes for its academic programmes

Apart from academic performance, graduates from the department also qualify various competitive exams like GRE, TOEFL, SNAP, GPAT, CAT and GMAT for further higher education.

B. Details of making students and staff are made aware of these

List of the qualified students is maintained in the department.

2.6.3 Write up of department teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes

The faculty member use OHP, Multimedia presentation, Internet, ICT facilities, to improve student learning and knowledge. Apart from this, assessment of students is based on two sessional exam in a semester followed by main semester exam, practical exam.

2.6.4 Details of collection and analysis of data on student learning outcomes and use it to overcome the barriers to learning: (Attached)

2.6.5 Write up of new technologies deployed by the department in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges: No

2.6.6 Any other information regarding Teaching, Learning and Evaluation which the department would like to include.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Year-wise Publications in the department:

S. No.	Name of the Faculty	Designation	No. of Research Publications year wise						Total
			2008	2009	2010	2011	2012	2013	
1	Dr. Rajesh Sharma	Head & Professor	15	14	25	07	08	09	78
2	Dr. G.P.Choudhary	Reader	03	01	02	05	11	03	25
3	Dr. Tamanna	Reader	00	01	00	03	03	01	08

	Narsinghani								
4	Dr. Nidhi Dubey	Reader	02	08	01	01	07	0	19
5	Dr. Love Kumar Soni	Reader	--	00	00	03	04	01	08
6	Dr. Rashmi Dahima*	Senior Lecturer	00	01	04	04	03	00	12
7	Dr. Masheer Ahmed Khan	Senior Lecturer	00	00	01	02	08	04	15
8	Dr. E. Manivannan	Lecturer	00	02	01	01	04	00	08
9	Dr. Anupama Parate	Lecturer	--	00	01	01	01	05	08
10	Dr. Mukesh C. Sharma	Lecturer	--	00	17	10	03	13	43
11	Mr. Jitendra Sainy	Lecturer	01	01	01	02	00	00	05
12	Mrs. Apeksha Saraf	Lecturer	--	00	00	00	00	00	00
13	Mr. Gajanand Engla	Lecturer	--	03	01	01	02	00	07
14	Mr. Devashish Rathore [#]	Lecturer	--	--	--	01	01	00	02
15	Mr. Mayank Sharma [#]	Lecturer	--	--	--	--	--	--	--
16	Mr. Mahendra Chouhan [#]	Lecturer	--	--	--	--	--	--	--
17	Mr. Manoj Rathore [#]	Lecturer	--	--	--	--	--	--	--
Total			21	31	54	41	55	36	238

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)- γ -(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).
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 AT₁ 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).
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 benzylamide 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 α -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, 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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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).
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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 fumerate 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).
49. Pattanayak, P., Choudhary, Y. P., **Sharma, R.**, Mohapatra, P., Setty, D. K. (2009) Simultaneous spectrophotometric estimation of nitazoxanide and ofloxacin in combined

tablet dosage form. Research Journal of Pharmacy and Technology 2, 291-293 (ISSN No. 0974-3618).

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51. Joshi, R., **Sharma, R.** (2008) Development and Validation of RP-HPLC Method for Simultaneous Estimation of Three Component Tablet Formulation Containing Acetaminophen, Chlorzoxazone, and Aceclofenac Anal Lett 41, 3297-3308 (ISSN No. 003-2719, Impact Factor: 1.06).
52. **Sharma, R.**, Yadav, N., Chaturvedi, S. C. (2008) Synthesis and Biological Evaluation of Central Nervous system agents. Indian Drugs 45, 859-868 (ISSN No. 0019-462X).
53. Jain, V., **Sharma, R.** (2008) Simultaneous Spectrophotometric estimation and validation of ofloxacin and satranidazole in combined tablet dosage form. Journal of Applied Chemical Research 5, 48-56 (ISSN No. 008-3823).
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55. Chaturvedi P.K., **Sharma, R.** (2008) Development and validation of RP-HPLC method for simultaneous estimation of three component tablet formulation containing metformin hydrochloride, pioglitazone hydrochloride and glibenclamide. Acta Chromatographica 20, 451-461 (ISSN No. 233-2356, Impact Factor: 0.729).
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57. Chaturvedi P.K., **Sharma, R.** (2008) Simultaneous Spectrophotometric Estimation and Validation of Three Component Tablet formulation containing Pioglitazone Hydrochloride, Metformin Hydrochloride and Glibenclamide Anal Lett 41, 2133-2142 (ISSN No. 0003-2719, Impact Factor: 1.06).
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61. Baviskar, D., **Sharma, R.**, Jain, D. K. (2009) OPTI-STAT: A revolution in factorial and dissolution studies in development of new drugs. International Journal of Pharmacological and Biological Science 3,157-160 (ISSN No. 0973-6808).
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194. **Sharma, M.C.**, Sharma, S. (2010) Development and Validation of An HPTLC Method for Determination of Oseltamivir phosphate in pharmaceutical dosage form. Indian Drugs. 47, 68-72 (ISSN No.0019-462X).
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205. **Engla, G.**, Doshi, A., Soni L.K., Dixit, V.K. (2011) Validated simultaneous spectrophotometric method for estimation of Paracetamol & diclofenac Sodium in tablet dosage forms using Hydrotropic solubilization technique. *Pharmacia* 1, 63-66 (ISSN No. 0976-9692).
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207. Rokade, Y., Dongre, N., **Engla, G.**, Behra, C., Sayyed, R. (2009) Azetidinone (β -Lactam) derivatives: An emerging antimicrobials. *Asian Journal of Microbiol. Biotech. Env. Sc.* 11, 109-114 (ISSN No. 0972-3005).
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209. Patidar, R., Baghel, U.S., Patel, S., Singhal, M., Patidar, N., **Engla, G.**, Dongre, N. (2009) Simultaneous Spectrophotometric Estimation of Paracetamol and Etodolac in Tablet Dosage Forms. *Journal of Global Pharma Technology* 1, 62-66 (ISSN No. 0975-8542).

Review papers (2008-till date)

1. Jain, A., **Parate, A.**, Sharma, R., Chaturvedi, S. C. (2013) Benzimidazoles as angiotensin II AT₁ receptor antagonist: A Review. *Inventi Impact: Med. Chem.* 1, 1-14 (ISSN No. 2229-421X).
2. Vengurlekar, S., **Sharma, R.**, Trivedi, P. (2012) Efficacy of some natural compounds as anti-fungal agents. *Phcog Rev* 6, 91-99 (ISSN No. 0973-7847).
3. **Sharma, R.**, Mishra, G. P. (2012) Current Approaches for the treatment of Hyperglycemia. *American Journal of PharmTech Research* 2, 160-166 (ISSN No. 2249-3387).
4. Rashmin, P., Mrunali, P., **Dubey, N.**, Dubey, N., Bharat, P. (2012) HPTLC Method Development and Validation: Strategy to Minimize Methodological Failures. *J Food Drug Anal* 20, 794-804 (ISSN No. 1021-9498, Impact Factor: 0.333).
5. **Dubey, N.**, Sharma, R.K., Gupta, H., Dubey, N., Dubey, N. (2011) Performance of the Indian Pharmaceutical Industry Pre and Post TRIPS Era: A Study. *Asian Journal of Pharmacy & Life Science* 1, 188-194 (ISSN No. 2231-4423 online).
6. **Dubey, N.**, Sharma, R.K., Gupta, H., Dubey, N., Dubey, N. (2011) Pharmaceutical Quality Management System: Current Concept. *Journal of Advanced Pharmacy Education & Research* 1, 120-124 (ISSN No. 2249-3379).

3.2 Number of papers published in peer reviewed journals (national / international)

S. No.	Name of the Faculty	No. of Papers published (2008-2013)
01	Dr. Rajesh Sharma	78
02	Dr. G.P. Choudhary	25
03	Mrs. Tamanna Narsinghani	08
04	Dr. (Mrs.) Nidhi Dubey	19
05	Dr. Love Kumar Soni	08
06	Dr. (Mrs.) Rashmi Dahima	12
07	Dr. Masheer Ahmed Khan	15
08	Dr. E. Manivannan	08
09	Dr (Mrs.) Anupama Sainy	08
10	Dr. Mukesh C. Sharma	43
11	Mr. Jitendra Sainy	05
12	Mrs. Apeksha Saraf	00
13	Mr. Gajanand Engla	07
14	Mr. Devashish Rathore	02
15	Mr. Mayank Sharma	00
16	Mr. Manoj Rathore	00
17	Mr. Mahendra Chouhan	00
Total		238

Monographs: Nil

Chapters in Books

Name of Faculty	Book Chapter
Dr. (Mrs.) Nidhi Dubey	<i>Validation of HPTLC Method</i> by Nitin Dubey, Nidhi Dubey and Dr. D.K. Jain in volume 1 of 3 volumes of Sethi's HPTLC , 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 and h-index

Name	Citations	h-Index
Dr. Rajesh Sharma	263	11
Mrs. Tamanna Narsinghani	25	3
Dr. (Mrs.) Nidhi Dubey	43	4
Dr. Love Kumar Soni	151	7
Dr. (Mrs.) Rashmi Dahima	20	3
Dr. Masheer Ahmed Khan	-	1
Dr. E. Manivannan	158	8
Dr. Anupama A. Parate	-	1
Mr. Mukesh C. Sharma	686	10
Mr. Jitendra Sainy	27	2

SNIP

SJR

Impact Factor – range / average

III.3 List and Details and Details of patents and income generated

Name of Faculty	Number of patent filed
Dr. Rajesh Sharma & Dr. (Mrs.) Rashmi Dahima	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.

III.4 List and Details of Areas of consultancy and income generated: Efforts are being made. A task force has been setup in the University for consultancies.

III.5 List and Details of Faculty selected nationally/internationally to visit other laboratories in India and abroad: Nil

III.6 List and Details of Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Name of Faculty	Committees/Advisory/Editorial Boards
Dr. Rajesh Sharma	Reviewer in 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). Editorial Member of Journal of current pharmaceutical research

Mrs. Tamanna Narsinghani	Reviewer in Elsevier (European Journal of Medicinal Chemistry, Chemical Biology and Drug Design), Springer (Medicinal Chemistry Research) etc.
Dr. (Mrs.) Rashmi Dahima	Associate editor of “Association of Pharmacy Professionals” established in 2011.
Dr. Masheer Ahmed Khan	Reviewer in Advances in Natural Sciences
Dr. E. Manivannan	Editorial board member in ISRN Pharmaceutics Journal, Hindawi Publishers, American Journal of Drug design and Development, Sci-Alert.
Dr. Anupama A. Parate	Editorial Board: Innovare Academic Sciences Pvt. Ltd-Pharmaceutical
Dr. Mukesh C. Sharma	Reviewer 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.
Mr. Gajanand Engla	1. Member of Advisory board of International journal of Pharmacy and Life Sciences. 2. Reviewer for Eurasians Journal of Analytical Chemistry

III.7 Research thrust area recognized by funding agencies for the department

Name of Faculty	RESEARCH THRUST AREA
Dr. Rajesh Sharma	Computer aided drug design, synthesis and biological evaluation of novel anti-diabetic agents
Dr. G.P.Choudhary	Evaluation of some indigenous anti-asthmatic drugs
Dr. L.K.Soni	Computer Aided Designing and Evaluation of New Anti-Tubercular Agents
Dr. Rashmi Dahima	Exploration of tamarind seed polysaccharide as gelling agent for sustained ocular delivery of moxifloxacin.
Dr. M.A.Khan	Formulation of a novel sustained release oral antidiabetic drugs combination through computer aided optimization and their evaluation.
Dr. E. Manivannan	Design and synthesis of anticancer agents for breast and prostate cancer
Dr. Anupama A. Parate	Design and Development of new molecules for: Anti hyperter activity.

III.8 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 and grants received project-wise.

Six faculty members have received grants from various funding agencies.

(File No. III.8)

III.9 List and details of Inter-institutional collaborative projects and grants received All India collaboration b) International: Nil

III.10 List and details of Departmental projects funded by DST-FIST; UGC-SAP/CAS,

DPE; DBT, ICSSR, etc.; total grants received.

Total grants of Rs. 33, 63,400/- in total 4 UGC funded projects. (File No. III.10)

III.11 List and Details of Research facility / centre with

- state recognition
- national recognition
- international recognition

Name of Faculty	RESEARCH FACILITY / CENTRE
Dr. G.P. Choudhary	AICTE Career Award for Young Teacher-2010 (Rs. 10,50,000) "Evaluation of some indigenous anti-asthmatic drugs".
Dr. E. Manivannan	1. National recognition: Awarded Career Award for Young Teachers (CAYT) by AICTE, New Delhi. 2. International recognition: Awarded Mobility Research Grant for Post doctoral Research cum Visiting Scientist by Academy of Finland.

III.12 List and details of Special research laboratories sponsored by / created by industry or corporate bodies: Nil

3.1 Promotion of Research:

Department has laboratory in charge to look after the particular laboratory and arrangements.

3.1.1 A. Composition of Departmental Research Committee, List of members and minutes of its meeting:

Members of Departmental Committee (2010-12): Dr. Rajesh Sharma, Mrs. Tamanna Narsinghani. Dr. Nidhi Dubey, Dr. Rashmi Dahima, Dr. Masheer Ahmed Khan.

2013: Dr. Rajesh Sharma, Dr. G. P. Choudhary, Mrs. Tamanna Narsinghani. Dr. L.K.Soni, Dr. Masheer Ahmed Khan.

Member of Departmental Research Committee (Pharmacy for DET):

1. Dr. Suresh Chand, Dean (Faculty of Life Science)
2. Dr. Rajesh Sharma, Head and Chairman, BOS (Pharmacy)
3. Dr. Ashok Sharma, V.C. Nominee

B. Details of DRC regarding monitoring and addressing issues related to research

C. Details of DRC recommendations which have been implemented and their impact.

Yes, 06 candidates pursuing PhD course work in 2012-13.

Number of Students applied		Number of Students eligible for interview	Number of Students selected
GATE Qualified	DET exam		
08	23	13	03

(File No. 3.1.1 for A, B and C)

3.1.2 Information of research centers in its affiliated / constituent colleges which are

monitored by the DRC of the department: Nil

3.1.3 Details of the

- * advanced funds for the sanctioned projects
- * providing seed money
- * Simplification of procedures related to sanctions / purchases to be made by the investigators
- * Autonomy to the principal investigator/coordinator for utilizing overhead charges:
Full autonomy to the principal investigator/coordinator for utilizing overhead charges.
- * Timely release of grants
- * Timely auditing
- * Submitted utilization certificates to the funding authorities

All the processing related to sanctioned projects like release of grant, funding, auditing, are governed by the development, finance and audit department of the university.

3.1.4 Details of interdisciplinary research promoted

- * with other departments /schools of the university and
A PhD Scholar student Mr. Naveen Dhingra, who has registered at Research Center in Life Sciences. He is carrying his research project titled “Isolation and Characterization of some phytochemicals from their Indian cultivators of Prunus Domestica, Prunus Persica and Prunus Dulcis and their efficacy study for the prevention of breast cancer”. The work is in collaboration with School of Pharmacy.

Name of Faculty	RESEARCH PROMOTED
Dr. Rajesh Sharma	Navin Dhingra is pursuing PhD under supervision of Prof. A. Kar, School of Life Sciences, and Dr. Rajesh Sharma, Head , School of Pharmacy
Dr. E. Manivannan	One to one collaborative research with Dr.H.S.Parmar, School of Biotechnology, DAVV.
Dr. Anupama A. Parate	Worked in collaboration with Dr. R. Sowdhamini and Dr. K. Kanakrajdurai for computational approaches to protein-science and Homology Modeling and docking at National Centre for Biological Sciences (NCBS), Tata Institute of Fundamental Research, Bangalore, Karnataka.

- * collaboration with national/international institutes/industries: Nil

3.1.5 Details of workshops/ training programmes/ sensitization programmes conducted by the department to promote a research culture on campus: Planning in 2013-14.

3.1.6 A. Details of visits of researchers of eminence to visit the campus as adjunct professors: Planning in 2013-14.

B. Impact of such efforts on the research activities of the university: NA

- 3.1.7 A. Percentage of the total budget of the department which is earmarked for research: 13.24 % (2012-13)
 B. Details of heads of expenditure, financial allocation and actual utilization

Name of Head	Actual Expenditure (Rs)	Allocated Amount(Rs)
Equipments	22781	3000000
Computer/Software	Nil	50000
Animal House	Nil	50000
Medicinal Garden	22000	25000
Chemical & glassware's	201227	500000
Total	2,46,008	36,25,000

- 3.1.8 A. Details of University funded research and awarded Post Doctoral Fellowships/Research Associateships: Not required as funds from AICTE, UGC and MPCST are available for research.

B. List of students registered with Details of source of funding by the university and other sources: Nil

- 3.1.10 A. List and percentage of faculty which have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad:

Study leave was taken by Dr. E. Manivannan for higher studies during 1/12/2011 to 11/12/2012.

B. Details of the output of these scholars: Under communication.

- 3.1.11 A. Details with photographs of national and international conferences organized

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

(File No. 3.1.11)



B. List highlighting the names of eminent scientists/scholars who participated in these events.

Invited experts	Prof. V. R. Sinha, Professor and Chairperson, U.I.P.S., Punjab University, Chandigarh.
	Prof. Sushant Shrivastava, Department of Pharmaceutical Engineering, I.E.T., BHU, Varanasi
Eminent persons	Dr. D. P. Singh Hon'ble Vice-Chancellor, D.A.V.V., Indore
	Prof. S.C. Chaturvedi Director, Arvindo College of Pharmacy, Indore
	Prof. Ashok Sharma, School of Chemical Sciences, DAVV, Indore
	Prof. D.K. Jain Principal, IPS academy, Indore
	Dr. Rajesh Sharma, Head of Department, School of Pharmacy, DAVV, Indore

3.2 Resource Mobilization for Research

3.2.1 Details of Financial provisions made in the university budget for supporting students' research projects:

The budget is allocated for the medicinal garden, animal house, periodicals, e-journals, Chemicals for research etc for supporting student's research projects.

3.2.2 A. Details of special efforts to encourage its faculty to file for patents: Two patents are filed by the faculty of department.

B. List of registered and accepted patents.

Name of Faculty	No. of Patents filed
Dr. Rajesh Sharma and Dr. (Mrs.) Rashmi Dahima	Two Patents filed: <ul style="list-style-type: none"> ➤ Gastro retentive cytoprotective drug delivery system (GR-CDDS) application No.2049/MUM/2008. ➤ Milk powder as a super disintegrating agent application No. 892/MUM/2011.

3.2.3 Details of ongoing research projects of faculty:

1. Dr. Rajesh Sharma

S. No.	Title of the Project	Name of the funding Agency	Amount sanctioned [Rs. In Lakhs]	Duration
01	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
02	Major Research Project: Computer Aided Drug Design, Synthesis, and Biological Evaluation of DPP-IV	UGC, New Delhi	10,09,800/-	2011-2014

	inhibitors as anti-diabetic agents			
03	Computer Aided Drug Design, Synthesis and Evaluation of some anti-malarial agents	MPCST, Bhopal	3,72,000/-	2011-2014

2. Dr. G. P. Choudhary

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

3. Dr. Love Kumar Soni

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

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
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4. 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

- 3.2.4 A. Details of projects sponsored by the industry/corporate houses: Nil
 B. Details such as the name of the project, funding agency and grants received. : NA
- 3.2.5 A. Details of Department recognition for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and the quantum of assistance received: Nil
 B. Details of any two significant outcomes or breakthroughs achieved by this recognition: NA
- 3.2.6 List details of
- research projects completed and grants received (funded by National/International agencies).
 - Inter-institutional collaborative projects and grants received
 - All India collaboration
 - International

3.3 Research Facilities

- 3.3.1 A. Infrastructure in the department to facilitate research

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
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
116	CADD Lab	26.4	Yes	Yes	Yes
101	APHE Lab	91.46	Yes	Yes	Yes
103	Pharmaceutical	100.71	Yes	Yes	Yes

	Chemistry lab				
205	Major Instrument Room	38.7	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			
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. Strategies have been evolved to meet the needs of researchers in emerging disciplines

Both students and faculty have easy access to e-journal facility in the Central Library as well department, magazines, newspapers as well as the latest books available in the Central and Departmental libraries. Besides, the research students and staff members interact regularly in Departmental seminars, meetings and discussions. Research scholars and faculty members attend seminars, workshops and symposia organized in India and abroad on regular basis. All these facilities and activities help students and faculty to keep pace with the latest developments in their subjects.

3.3.2 A. Information and Resources catering to the needs of researchers of the department:

Department has one instrument room, CADD lab, internet facility, e-journal, well stocked library, animal house etc to meet the requirements of researchers.

B. Details of the facility.

The instrument room includes HPLC, UV, IR spectrophotometer. Softwares are also available for computer aided drug designing. Besides, animal house to perform in vivo study for research.

3.3.3 Details of University Science Instrumentation Centre (USIC) facilities been made available to research scholars:

UGC- DOE consortium is available in university which provides advanced technological instruments for analysis and carrying research projects as and when needed.

3.3.4 Details of provision of residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international): A separate guest house is available in the university campus. Campus is Wi-Fi. This ensures Internet facilities.

3.3.5 Details of Uses of the Facilities of IUC, CAT, NRCS, IIT Indore and other specialized Research Centers for research:

Research students carry out their analysis at CAT, IIT, and CDRI.

(File No. 3.3.5)

3.4 Research Publications and Awards

3.4.1 Research journal published, if any, from the department(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database: Planned in 2013-14.

3.4.2 Details of publications by the faculty: (DETAILS ARE ATTACHED)

* Number of papers published in peer reviewed journals (national / international)

S. No.	Name of the Faculty	No. of Papers published (2008-2013)
01	Dr. Rajesh Sharma	78
02	Dr. G.P. Choudhary	25
03	Mrs. Tamanna Narsinghani	08
04	Dr. (Mrs.) Nidhi Dubey	19
05	Dr. Love Kumar Soni	08
06	Dr. (Mrs.) Rashmi Dahima	12
07	Dr. Masheer Ahmed Khan	15
08	Dr. E. Manivannan	08
09	Dr (Mrs.) Anupama Sainy	08
10	Dr. Mukesh C. Sharma	43
11	Mr. Jitendra Sainy	05
12	Mrs. Apeksha Saraf	00
13	Mr. Gajanand Engla	07
14	Mr. Devashish Rathore	02
15	Mr. Mayank Sharma	00
16	Mr. Manoj Rathore	00
17	Mr. Mahendra Chouhan	00
Total		238

* Monographs: Nil

* Chapters in Books

Name of Faculty	Book Chapter
Dr. (Mrs.) Nidhi Dubey	<i>Validation of HPTLC Method</i> by Nitin Dubey, Nidhi Dubey and Dr. D.K. Jain in volume 1 of 3 volumes of Sethi's HPTLC , 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.

* Books edited : Nil

- * Books with ISBN with details of publishers: 02
- * 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
- * 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, EBSCO host, etc.)

* **Citation Index – range / average**

Name	Citations
Dr. Rajesh Sharma	263
Mrs. Tamanna Narsinghani	25
Dr. (Mrs.) Nidhi Dubey	43
Dr. Luv Kumar Soni	151
Dr. (Mrs.) Rashmi Dahima	20
Dr. Masheer Ahmed Khan	-
Dr. E. Manivannan	158
Dr. Anupama A. Parate	-
Dr. Mukesh C. Sharma	686
Mr. Jitendra Sainy	27

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

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

3.4.3 Details of

- * faculty serving on the editorial boards of national and international journals:
(File No. 3.4.3)
- * faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies: Nil

3.4.4 Details of

- * research awards received by the faculty and students
(File No. 3.4.4)

Dr. G.P. Choudhary	AICTE Career Award for Young Teacher-2010 (Rs. 10,50,000) “Evaluation of some indigenous anti-asthmatic drugs”.
Dr. (Mrs.) Nidhi Dubey	<ul style="list-style-type: none"> • Two International Research papers received prestigious 8th Dr. P. D. Sethi Research Paper Annual Award-2012 (Certificate of Merit) on fundamentals and application of HPTLC in Pharmaceutical and Herbal analysis . <ol style="list-style-type: none"> 1. Dubey N., 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. 2. Patel R., Patel M., Dubey N., Dubey N., 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 (Impact Factor : 0.795). <ul style="list-style-type: none"> • Two International Research papers received prestigious Dr. P. D. Sethi Research Paper Annual Award-2009 (Certificate of Merit) 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"> 1. Nidhi Dubey, Nitin Dubey, Rajendra Mehta & Ajay Saluja; Estimation of catechin in Ayurvedic oil formulations containing Acacia catechu, Journal of AOAC International 92(4), 2009, 1021-1026. 2. Nidhi Dubey, Nitin Dubey, Rajendra Mehta & 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.
Dr. Love Kumar Soni	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.
Dr. (Mrs.) Rashmi Dahima	APP young performer award as a speaker on topic “Recent challenges in pharmaceutical education & research”. [Sept 2011].
Dr. E. Manivannan	Awarded Career Award for Young Teachers (CAYT) by AICTE, New Delhi.
Dr. Mukesh C. Sharma	VLife Best Publication Award 2013, VLife Science Pvt. Ltd., Pune.
Mr. Gajanand Engla	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.

* national and international recognition received by the faculty from reputed professional bodies and agencies : Nil

3.4.5 A. Number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years :

Awarded: 13 and Registered: 06 (2008-13)

S.No.	Name of Doctoral Students	YEAR
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
S. No.	PhD Candidates	YEAR
1.	Mr. G. P. Mishra	Pursuing
2.	Mr. Jitendra Sainy	Pursuing
3.	Mr. Mayank Sharma	Pursuing
4.	Mrs. Tamanna Narsinghani	Pursuing
5.	Mr. Mahendra Chauhan	Pursuing
6.	Mr. Swaraj Patil	Pursuing

B. University participates in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access: Yes.

3.4.6 A. Details of Promotion e interdisciplinary research: Nil

B. Number of interdepartmental / interdisciplinary research projects undertaken:

- Mr. Naveen Dhingra is pursuing Ph.D. at School of Pharmacy under the supervision of Dr. A. Kar, Professor, School of Life Sciences, DAVV, Indore and Dr. Rajesh Sharma, Reader & Head, School of Pharmacy, DAVV, Indore.
- Dr. E. Manivannan works for few research projects in association with Dr.H.S. Parmar, School of Biotechnology, D.A.V.V., Indore.
- Worked in collaboration with Dr. R. Sowdhamini and Dr. K. Kanakrajdurai for computational approaches to protein-science and Homology Modeling and docking at National Centre for Biological Sciences (NCBS), Tata Institute of Fundamental Research, Bangalore, Karnataka.

C. Mention the number of departments involved in such endeavours: 02

3.4.8 List of University instituted research awards to the faculty of the Department: Awards planned in 2013-14. Presently, Department committee felicitation is done and appreciation letters issued by Vice Chancellor.

3.4.9 Details of incentives given to the faculty for receiving state, national and international recognition for research contributions: Nil

3.5 Consultancy

3.5.1 Important consultancies undertaken by the department during the last four years. : Planned in 2013-14.

3.5.2 A. Department participation in university-industry cell: Yes

B. If yes, what is its scope and range of activities: A task force exists in University to initiate University-Industry cooperation. Department expects to initiate participation.

3.5.3 Details of publicizing the expertise of the department for consultancy services: Planning to place at website in 2013-14. Department is now equipped with molecular modeling software and will provide help in drug discovery design.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 A. Department Details of sensitization of faculty and students on its Institutional Social Responsibilities: Students and faculty member of the department regularly involved in various activities like Shram Daan, Cleanliness drive, plantation through NSS, Blood donation camp. Besides, seminars to bring social awareness are also been organized in department like topic on Yoga and meditation by Gayatri pariwar, Shantikunj, Haridwar, Positive habits by ISCKON etc.

B. List the social outreach programmes which have created an impact on students' campus experience during the last four years.

Yoga, Shram Daan, NSS camp, Cleanliness drives of River Khan.

3.6.2 Promotion of neighborhood network and student engagement and holistic development of students and sustained community development?

To promote the neighborhood network, students have participated in residential camp wherein students from other colleges have also participated. In this camp, Students have taken cleanliness drive of river Khan at various locations in Indore City and also of university campus. Apart from this, students also participate in inter departmental sports and cultural activity every year in university.

3.6.3 Details of participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes (File No. 3.6.3)

3.6.4 Details of tracking the students' involvement in various social movements / activities which promote citizenship roles:

List of students participated in various social movement

S. No.	Name of the Students	S. No.	Name of the Students
01	Amit Pandit	02	Nilesh Mandloi
03	Akhilesh Meena	04	Akashdeep Rathore

05	Aritra Bhadra	06	Charles Xavier
07	Hitesh Kushwah	08	Sumit Deshmukh
09	Rahul Dixit	10	Sanju Yadav

(File No. 3.6.4 for more detail)

3.6.6 Write up of the values inculcated and skills learnt during extension activities.

Students have actively involved in various NSS activities which have inculcated social awareness and enhanced citizenship. Besides, seminars on Yoga, meditation, Positive thinking have improved overall personality development of students.

3.6.7 Department community in its outreach activities

Departmental NSS unit and cultural committee have been constituted to conduct various extension activity.

3.6.8 Details of awards received by the institution for extension activities and/contributions to social/community development during the last four years

1. **Best Disciplined Team Trophy** in Inter departmental sports competition in 2013.
2. Achieved **3rd Position in Inter departmental group dance competition** in 2013.
3. **3rd Position in Interdepartmental Fancy-Dress Competition** in 2013.

3.7 Collaboration

A. MOU Copies and Details of collaboration with other agencies impacted the visibility, identity and diversity of activities on campus: Planned in 2013-14.

B. Details of benefits academically and financially because of collaborations: NA

3.7.2 Details of linkages resulted in

- * Curriculum development
- * Internship
- * On-the-job training
- * Faculty exchange and development
- * Research
- * Publication
- * Consultancy
- * Extension
- * Student placement
- * Any other (please specify): Nil

3.7.3 A. Copy of MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.: Nil

B. Details of enhanced the research and development activities: NA

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities? : Nil

3.7.5 Any other information regarding Research, Consultancy and Extension, which the university would like to include.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 A. Details of Department physical infrastructure

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
106	Instrument Room	77.77	Yes	Yes	Yes
109	Computer Lab	42.21	Yes	Yes	Yes
112	Class Room-I	92.8	Yes	Yes	Yes
113	Seminar Hall	102.01	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
116	CADD Lab	26.4	Yes	Yes	Yes
101	APHE Lab	91.46	Yes	Yes	Yes
103	Pharmaceutical Chemistry lab	100.71	Yes	Yes	Yes
205	Major Instrument Room	38.7	Yes	Yes	Yes
206	Pharmaceutical Chemistry lab	100.71	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
201	Aseptic Room	38.7	Yes	Yes	Yes
202	Microbiology Lab	77.77	Yes	Yes	Yes
203	Tutorial Room PG	36.12			
302	Pharmaceutics	100.71			
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
311	Class Room-V	102.01	Yes	Yes	Yes
312	Pharmacognosy	92.8	Yes	Yes	Yes
313	Physical Pharmacy Lab	76.76	Yes	Yes	Yes

B. Maintenance of Laboratories for its optimal utilization: Register for maintenance is kept.

C. Maintenance of Computers for its optimal utilization: Register for maintenance of computer is kept.

D. Maintenance of UPSes, Power Supplies: Maintenance register are available in the Department.

E. Maintenance of support services, sanitation, first aid boxes: Maintenance register are available in the Department.

F. Maintenance of building, garden, indoor games structure: Maintenance register are available in the Department.

4.1.2 Details of new initiatives for Infrastructure for promote a good teaching-learning environment- Internet, Wi-Fi, Power Point Projectors, Video Equipment

Internet and e-journals are accessible to the faculty as well students of the department. The classes are also equipped with ICT facility to promote good teaching-learning environment. The campus is Wi-Fi.

4.1.3 Physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services

Separate computers with Internet facility are provided to the faculty. Separate instrument room, CADD room is there to facilitate overall research profile of the department.

4.1.4 List of Facilities like office room, common room and separate rest rooms for women students and staff

Room No.	Room type (mention Class room / Lab / Toilet, etc.)	Carpet area (in sqm)	Completion of Flooring	Completion of Walls and painting	Completion of Electrification and lighting
105	Principal Room	37.16	Yes	Yes	Yes
107	Faculty Cabin	22.94	Yes	Yes	Yes
110 A-D	Faculty Cabin-Ground floor	44.52	Yes	Yes	Yes
	Faculty Cabin-Ground floor-toilet	8	Yes	Yes	Yes
111	Professors Room	37.5	Yes	Yes	Yes
	Ladies Toilet-Ground Floor	15.5	Yes	Yes	Yes
	Gents Toilet-ground Floor	15.5	Yes	Yes	Yes
104	Office	36.12	Yes	Yes	Yes
209 A-D	Faculty cabin-I st floor	44.52	Yes	Yes	Yes
	Faculty cabin-First floor-Toilet	8	Yes	Yes	Yes
210	Professor Room	37.5	Yes	Yes	Yes
	Ladies Toilet-I st floor	15.5	Yes	Yes	Yes
	Gents Toilet-Ist Floor	15.5	Yes	Yes	Yes
	Girls Common Room	66.94	Yes	Yes	Yes
203	Tutorial Room PG	36.12			
307 A-E	Faculty cabin-II nd floor	26.8	Yes	Yes	Yes
	Faculty cabin-second floor-Toilet	8	Yes	Yes	Yes
	Ladies Toilet-second floor	15.5	Yes	Yes	Yes
	Gents Toilet-second floor	15.5	Yes	Yes	Yes
314	Boys Common Room	77.77	Yes	Yes	Yes

- 4.1.5 **List of the infrastructure facilities are disabled-friendly:**
- i. Ramps are being planned in 2013-14.
 - ii. Facility for Internet access by Blind is available at IT centre.

4.1.8 **Departmental special facilities are available on campus to promote students' interest in sports and cultural events/activities:**

Sports complex is available in campus to promote students sports activities. A sports committee has been constituted for the conduction of sports at various levels. A cultural committee helps students to take part in various cultural events held at university level. Department calendar for Academic activities has Sports day, Cultural activity day and Environment day.

4.2 Library as a Learning Resource

4.2.1 **Details of departmental library facilities:**

4.2.2 **Provide details of the departmental library:**

- * Total area of the library (in Sq. Mts.): 102.01 SqM
- * Total seating capacity: 42
- * Working hours (on working days, on holidays, before examination, during examination, during vacation): 10.0 am to 6.0 pm(except holidays)
- * Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources): NA
- * Clear and prominent display of floor plan: NA (single hall)
- * Adequate sign boards: Yes
- * Fire alarm: No
- * Access to differently-abled users and Mode of access to collection: Nil

4.2.3 **Departmental library holdings:**

- a) Print (books, back volumes and theses): Books-3494
- b) Average number of books added during the last three years: 431
- c) Non Print (Audio Video, CDs, Downloaded Articles): 15 CDs
- d) Electronic (e-books, e-journals): More than 1400
- e) Special collections (e.g. text books, reference books, standards, patents): 10 Gifted Text Books

4.2.4 **Details of tools the library deploys to provide access to the collection**

- * OPAC: Yes
- * Electronic Resource Management package for e-journals: Yes through Central Library.
- * Federated searching tools to search articles in multiple databases: Yes
- * Library Website: Using Wi-Fi available.
- * In-house/remote access to e-publications: Using Wi-Fi/Internet available. University Central Library is

4.2.5 **Use of ICT deployed in the library**

- * Library automation: Yes, in Central Library.
- * Total number of computers for public access: Not in departmental library but for departmental Faculty and students, 25 PCs available in computer room.
- * Total numbers of printers for public access: 1

- * Internet band width speed √□ 2mbps □ 10 mbps □ 1 GB
- * Institutional Repository
- * Content management system for e-learning: Yes
- * Participation in resource sharing networks/consortia (like INFLIBNET): Yes.

4.2.6 Details (per year) with regard to

- * Ratio of library books to students enrolled- **1: 16.33** (214:3494)
- * Average number of books added during the last four years: 575 in Departmental Library
- * Assistance in searching Databases: Yes
- * INFLIBNET/IUC facilities: Yes

4.2.8 Annual departmental library budget and the amount spent for purchasing new books and journals: 2 Lacs in the Department.

4.3 IT Infrastructure

4.3.1 Details of Department IT and ICT Infrastructure

Internet facilities are available for both teacher as well as students. Internet ports are available to access internet facility all over the department. A separate computer lab for UG students with internet facility for enhancement of the IT ability of students. A computer aided drug design laboratory with computer facilities is also provided to PG and research students. A central computing facility is provided through University IT Centre which is open for 12 hrs every day. Besides, 5 classrooms are equipped with ICT facilities. Faculty demonstrate their lectures through multimedia presentation.

4.3.2 Details of the computing facilities i.e., hardware and software.

- Number of systems with individual configurations : 42
- Computer-student ratio: 0.21 (42/196)
- Dedicated computing facilities: Genuine version of antivirus (Net protector), Microsoft office which includes word, excel, PowerPoint and Acrobat reader are available.
- LAN facility: Available
- Proprietary software: SYBYL X 2.0 Software and TALLY ERP 9.0 are available in the department.

SYBYL X 2.0 Software

Machine A (Module 1)		Machine B (Module 2)	
S.No	Name	S.No	Name
1.	Biopolymer Triposlm	1.	Topomer CoMFA
2.	Stereoplex	2.	Topomer search
3.	Protoplex	3.	Topomer interface
4.	MCS	4.	Topomer Engine
5.	Distill	5.	HQSAR
6.	PMA	6.	Sybyl Basics

7.	Galahad	7.	Obutity
8.	Surflex sim	8.	Xdev
9.	GASP	9.	Dyanamics
10.	Combi lib Maker	10.	CPU
11.	Comb Chem	11.	Biobyte
12.	Pipe Comm	12.	Molcad
13.	Diverse solution	13.	Concord Standalone
14.	Fugue	14.	Confort
15.	Orchestar	15.	CoMFA Advance
16.	Adv Comp triposlm	16.	Adv Comp triposlm
17.	Confort	17.	Surflex sim, Engine, interface
18.	Concords Stadalone	18.	Surflex
19.	Molcad	19.	Galahad
20.	Db Conform	20.	PMA
21.	Disco	21.	PHCS
22.	Dynamics	22.	Protoplex
23.	Sybyl Basics	23.	Stereoiplex
24.	C score	24.	QSAR Tools (2D, 3D CoMFA, ComSIA)
25.	Db Cmpr tdb		
26.	Triplet		
27.	Cmpdsel		
28.	Tuplets		
29.	Unity		
30.	Unity 3D		
31.	Surflex dock		
32.	Legion		
33.	Markush		

- Number of nodes/ computers with internet facility: 30 computer system with net facility are available.
- Any other (please specify)

4.3.3 Plans and strategies for deploying and upgrading the IT infrastructure and associated facilities

Department is continuously upgrading its IT infrastructure through networking from top to bottom level. Number of internet switches and ports to connect all the computers have increased. Besides, subscription for e-journal to provide advanced information related to research and curriculum is increasing.

4.3.4 Details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.

Department has subscription of e-journal through university website. All the teachers as well students having own password can access this facility. A separate password provides confidentiality to the system.

4.3.5 IT facilities available to individual teachers for effective teaching and quality research

All the faculties are provided with a computer with internet facility. A central computing facility is also provided through University IT Centre which is open for 12 hrs every day.

4.3.8 A. Details of ICT-enabled classrooms/learning spaces available:

05 ICT enabled classrooms are available for quality teaching.

A. Details of utilization for enhancing the quality of teaching and learning

Teachers have adopted multimedia presentation and overhead projector to demonstrate their lectures.

PPTs handouts for each course available in the Department.

4.3.9 Details of Faculty and computer- aided teaching-learning materials

List of Web resources links for each course, CDs and Video lectures are available in the Department.

4.3.10 Department availing of the National Knowledge Network connectivity

Yes, The faculty and students of the department having own password can access e-journal facility through university website.

4.3.11 Details of Availing of web resources such as Wikipedia, dictionary and other education enhancing resources

Subscription for various advanced e-journals are available through university website, Students can access all the information. Links are provided to the Faculty and Students for each course.

4.3.13 Department budget for the update, deployment and maintenance of computers

(File No. 4.3.13)

4.3.14 Details of plans envisioned for the gradual transfer of teaching and learning from closed university information network to open environment

Using ICTs we are gradually progressing towards information to open environment.

Virtual Classroom is planned in 2013-14.

4.4 Any other information regarding Infrastructure and Learning Resources which the university would like to include.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Department system, structural and functional characteristics for student support and mentoring

Each teacher has been assigned for B.Pharm & M.Pharm yearwise as a class mentor/coordinator to give guidance and to solve the problems faced by the students. A mentor discusses at weekend assigned student related to academics, social, life and career related difficulties and counsel him/her.

5.1.2 Details of 'apart from classroom interaction', the provisions available for academic mentoring

All the students of B.Pharm and M.Pharm are guided and counseled for improving their academic performance by faculty members of the department.

5.1.3 Details of department students utilization of personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students.

An orientation programme for freshers is organized every year at university level. Classes for personality development are conducted as a part of the curriculum to promote the overall development of the students. Besides, various seminars are organized regularly to aid valued based education among the students. Psychometric tests are conducted at the commencement of course. Counseling is then imparted.

5.1.4 Department publish its updated prospectus and handbook info annually on website and online access of course plans, syllabi and result

Department publishes its updated prospectus regularly. Course plan and syllabus are available on website.

5.1.5 A. Details of the Timely dissipation of financial aid

B. Tables for type and number of scholarships/free-ships given to the students during the last four years the following categories: UG/PG/M.Phil/Ph.D./Diploma/others: (File No. 5.1.4 for A and B)

5.1.6 Table of percentages of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.): Nil

Department use of International Student Cell, number and list of foreign students: Planned in 2013-14. Task force exists in University for International Cooperation.

5.1.7 Department use of International Student Cell, number and list of foreign students: Nil

5.1.8 Department support services available for

* Students participating in various competitions/conferences in India and abroad

✓ In March 2007, sixty students of B.Pharm and M.Pharm participated in IPA MEET -2007, at Indore (M.P.) India, organized by IPA M.P. State branch.

✓ In December 2007 two students of M. Pharm. participated in National Conference "59th Indian Pharmaceutical Congress", at Banaras Hindu University, Varanasi (U.P.) India.

- ✓ Seven students of M. Pharm participated at international conference, organized by School of Pharmaceutical sciences, Rajiv Gandhi Technical University, Bhopal (M.P.), India in 2008.
 - ✓ Eighteen students of B. Pharm and M. Pharm participated in IPA MEET -2008.
 - ✓ Twenty students of B. Pharm and M. Pharm participated in IPA MEET -2009.
 - ✓ Thirty five students of B.Pharm and M.Pharm participated in IPA MEET -2010.
 - ✓ In June 2010, forty six students of B. Pharm III year participated in National “Pharma Next - 2010” conference at Shoolini University, Solan, Himachal Pradesh, India.
 - ✓ In February 2011, Fifteen students of B.Pharm final year and M. Pharm final year participated in “IPA National Convention-2011 “ at Indore, (M.P.), India.
 - ✓ In April 2012 , thirty students of B. Pharm and M.Pharm participated in National seminar on “screening Strategies in Drug Discovery” organized by Shri Aurobindo Institute of Pharmacy, Indore (M.P.),India.
 - ✓ In April 2012, 04 students of M. Pharm participated in International conference organized by Pharma next in Kathmandu, Nepal
 - ✓ In 2012, eighteen students of M. Pharm participated in National conference organized by Rajiv Gandhi Technical University, Bhopal (M.P.), India.
- * Physically challenged / differently-abled students: NIL
- * SC/ST, OBC and economically weaker sections

Year	SC STUDENTS	ST STUDENTS	OBC STUDENTS
2007	10	05	18
2008	13	05	18
2009	06	07	12
2010	05	07	12
2011	10	03	12
2012	04	01	17
2013	10	01	14

- * Health centre, health insurance etc.: A health centre is present in University campus. Doctor visits are there at Girl’s hostel. Eye camp, Heart disease awareness lecture also held.
- * Skill development (spoken English, computer literacy, etc.)
 Personality development and communication skill classes were arranged to sharpen the skills of students for various interviews and group discussions under “career counseling and opportunity cell” of University. Apart from this, Department included Communication skills and personality development, as subject of B. Pharm. While computer applications as subject already exists in the syllabus of B. Pharm. University has career counseling and opportunistic cell.
- * performance enhancement for slow learners
 ✓ Teachers gives innovative ideas and practical examples of everyday life related with the subjects which is helpful for the slow learners.
- * exposure of students to other institutions of higher learning/ corporates/business houses, etc.

- Educational /Industrial tour
 - June 2007- B.Pharm III year students visited Pharmaceutical industry Promed Laboratories, Indore (M.P.) India.
 - June 2008 – B.Pharm III year students visited Pharmaceutical industry Promed Laboratories, Indore (M.P.) India.
 - June 2010 – B.Pharm III year students visited Pharmaceutical industry Alkem, Baddi, Himachal Pradesh, India.
 - June 2011 – B.Pharm III year students visited Pharmaceutical industries
 - A. Parabolic drugs Ltd., Dera bassi, Punjab, India.
 - B. Dr. Reddy’s Laboratories Ltd. , Baddi , Himachal Pradesh, India.
 - C. Unichem laboratories Ltd., Baddi , Himachal Pradesh, India.
- * Publication of student magazines: Planned in 2013-14.
- * Details of student participation in sports and extracurricular activities
Students of B.Pharm as well as M. Pharm participated in various inter departmental and intradepartmental sports and extracurricular activities.
In the year 2012 students of B. Pharm participated in inter departmental group dance competition of University and hold third position.

5.1.9 Placement Details

Employers	Year	Name of selected Student
Ranbaxy Laboratories Ltd. Dewas (M.P.)	2010	1. Abhishek Soni 2. Bhagyashree Purohit 3. Isha Maheshwari 4. Nandita Kachru 5. Priyanka Gayakwad 6. Shrirшти Singh 7. Rashi Sharma
Cipla Ltd., Pithampur (M.P.)	2010	1. Nikhil Jain 2. Noopur Gupta
Eli Lilly	2010	1. Syed Shoeb
Nestle India Ltd.	2011	1. Parth Dixit 2. Prakhar Gupta
Piramal Health care Ltd., Pithampur	2012	1. Prateeti Kaushik 2. Vikas Badole
Ranbaxy Laboratories Ltd. Dewas (M.P.)	2012	1. Mayuri Mahajan 2. Shri Ram Gangwal 3. Disha Porwal 4. Bhojraj Yadhuvanshi

5.1.10 Number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

Employers	Year	Student Selected
Ranbaxy Laboratories Ltd. Dewas (M.P.)	2010	07 (B.Pharm)
Cipla Ltd., Pithampur (M.P.)	2010	02 (B.Pharm)
Eli Lilly	2010	01 (B.Pharm)
Nestle India Ltd.	2011	02 (B.Pharm)
Piramal Health care Ltd., Pithampur	2012	02 (B.Pharm)
Ranbaxy Laboratories Ltd. Dewas (M.P.)	2012	04 (B.Pharm)

5.1.11 A. Details of registered Alumni Association

Thirty eight students are registered as Alumni of the department.

B. Details of activities and contributions to the development of the department: Feedback on curriculum and suggestions invited by e-mail.

C. Details of alumni meets:

An Alumni meet was conducted on **28th July 2013** at **School of Pharmacy, DAVV, Indore**. It was a wonderful occasion to meet and share the experiences with the alumni who graduated from the department over the past 13 years. An Alumni meet help us to maintain the strong connect with our alumni and gain from their knowledge and expertise.

The meeting was inaugurated traditionally with the lighting of lamp and was followed by Saraswati Vandana. The program was started with an introductory note by Mrs. Tamanna Narsinghani, Reader, School of Pharmacy, Indore. Dr. Rajesh Sharma, Head, School of Pharmacy, extended a hearty welcome to Alumni and explained the purpose of alumni association. An opportunity was given to every alumnus to share their experience on department and give their valuable suggestions. Alumni have given suggestions like teaching should more practical and industrial oriented, promotion of research work, regular career counseling of students, industrial oriented programs, etc. It was followed by feedback session from alumni on curriculum and physical infrastructure of the department. About 60 alumni from various batches have attended the meet. The meeting was successfully concluded with vote of thanks by Mrs. Tamanna Narsinghani, Reader, School of Pharmacy, DAVV, Indore.



5.1.12 A. Committee members and Details of student grievance redressal: NIL

B. Details of the nature of grievances reported and the redressal: NIL

v. A. Details of Anti-Ragging Committee

Members of Anti Ragging Committee (2013-14):

- i. Dr. Rajesh Sharma, Head, SOP.
- ii. Dr. G.P. Choudhary, Reader, SOP
- iii. Mrs. T. Narsinghani, Reader, SOP
- iv. Dr. L.K. Soni, Coordinator, Anti-ragging committee
- v. Dr. Mukesh C. Sharma, Class Coordinator, B. Pharm. I Year.

Members of Anti Ragging Committee (2009-13):

- i. Dr. Rajesh Sharma, Head, SOP.
- ii. Dr. G.P. Choudhary, Coordinator, Anti-ragging committee.
- iii. Dr. L.K. Soni, Class Coordinator, M. Pharm
- iv. Mr. Jitendra Sainy, Class Coordinator, B. Pharm IV Year.
- v. Dr. M. A. Khan, Class Coordinator, B. Pharm. III Year.
- vi. Dr. G. P. Choudhary, Class Coordinator, B. Pharm. II Year.
- vii. Mrs. (Dr.) Rashmi Dahima, Class Coordinator, B. Pharm. I Year.

Members of Anti Ragging Squad:

- i. Mrs. T. Narsinghani, Reader, SOP
- ii. Dr. G. P. Choudhary, Reader, SOP

B. List of instances reported during the last four years and what action has been taken in these cases: Nil (File No. 5.1.11)

5.1.14 Details of the cooperation rendered by parents, industry and its stakeholders to ensure the overall development of its students: e-mail contacts and telephonic contacts are regularly done with them.

5.1.15 A. List of participation of women students in intra- and inter-institutional sports competitions and cultural activities: (File No. 5.1.18)

5.2 Student Progression

5.2.1 Analysis of progression and trends for the last four years.

Student Progression	%
UG to PG*	80

Student Progression	%
PG to M.Phil.*	Not Applicable
PG to Ph.D.	20
Ph.D. to Post-Doctoral	10
Employed	100
• Campus selection	33
• Other than campus recruitment	67

5.2.2 Programme-wise pass percentage during the time span stipulated

Name of the Course (refer to question no. 4)	Pass percentage		Category	Pass with First Class		Pass with Second class	
	M	F		M	F	M	F
B. Pharm (2008)	85.71%	95.45%	General	18	17	04	01
			OBC	06	--	--	--
			SC	01	03	--	--
			ST	--	--	--	--
B. Pharm (2009)	91.43%	100%	General	21	17	05	01
			OBC	04	01	--	--
			SC	03	--	01	01
			ST	--	--	01	--
B. Pharm (2010)	100%	95.45%	General	16	19	--	--
			OBC	01	01	--	--
			SC	02	01	01	02
			ST	--	--	--	--
B. Pharm (2011)	96.15%	96.3%	General	13	18	02	01
			OBC	10	03	01	--
			SC	02	02	01	--
			ST	--	--	02	--
B. Pharm (2012)	100%	100%	General	08	12	01	--
			OBC	08	07	01	--
			SC	05	03	01	--
			ST	--	--	02	01
B. Pharm (2013)	100%	100%	General	06	18	02	--
			OBC	08	04	01	--
			SC	03	01	02	--
			ST	--	--	--	--

Name of the Course (refer to question no. 4)	Pass percentage		Category	Pass with First Class		Pass with Second class	
	M	F		M	F	M	F
M. Pharm (2009)	100%	100%	General	01	02	--	--
			OBC	--	--	--	--
			SC	02	01	--	--
			ST	--	--	--	--
M. Pharm (2010)	100%	100%	General	01	05	--	--
			OBC	01	--	--	--
			SC	--	01	--	--

			ST	--	--	--	--
M. Pharm (2011)	100%	100%	General	03	03	--	--
			OBC	01	--	--	--
			SC	01	--	--	--
			ST	--	--	--	--
M. Pharm (2012)	100%	100%	General	02	11	--	--
			OBC	04	01	--	--
			SC	01	--	--	--
			ST	--	--	--	--
M. Pharm (2013)	100%	100%	General	01	02	--	--
			OBC	--	01	--	--
			SC	--	--	--	--
			ST	01	--	--	--

5.2.3 Details of Number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

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	2013	20	12	60.00%

Mission Recruitment				
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S. No.	Name of the Students	Year of award	Title of the Thesis	Faculty Name/ Supervisor
1.	Mr. Rajesh Kumar Maheshwari	2008	Novel Pharmaceutical Applications of Hydrophilic solubilization	Dr. S.C. Chaturvedi
2.	Mrs. Lata Banerjee	2008	Computer aided optimization and Pharmacokinetic studies of some Novel Anti-depressant drugs	Dr. S.C. Chaturvedi
3.	Mrs. Mona Nagar	2009	Development of mouth dissolving dosage forms	Dr. S.C. Chaturvedi
4.	Mr. Gajendra Pratap Choudhary	2009	Evaluation of some indigenous anti-asthmatic drugs	Dr. S.C. Chaturvedi
5.	Mr. Masheer A. Khan	2009	Formulation of sustained release matrix tablets through optimization and their evaluation	Dr. S.C. Chaturvedi
6.	Mrs. Rashmi Dahima	2010	Optimization and development of some fast dissolving tablet formulation of some bioactive agents	Dr. Rajesh Sharma
7.	Mr. Dheeraj T Baviskar	2010	Formulation and optimization of controlled release dosage form of calcium channel blockers as anti-hypertensive drugs	Dr. Rajesh Sharma
8.	Mr. E. Manivannan	2010	Analogue based design and synthesis of anti-inflammatory compounds	Dr. S.C. Chaturvedi
9.	Mr. Gajanan N. Dharwekar	2011	Designing and Evaluation of Transdermal drug delivery system for some Antihypertensive Drugs.	Dr. S.C. Chaturvedi
10.	Mrs. Rooma Dhondge	2011	Design, synthesis and Evaluation of some Novel Anti-inflammatory Compounds	Dr. S.C. Chaturvedi
11.	Mrs. Anupama A. Parate	2012	Molecular modeling : Synthesis and biological evaluation of some heterocyclic compounds as antihypertensive agent	Dr. Rajesh Sharma
12.	Mrs. Anurekha Jain	2012	Molecular modeling: Synthesis and biological evaluation of some substituted benzimidazole as antihypertensive agent	Dr. Rajesh Sharma
13.	Mrs. Sudha Vengurlekar	2012	Synthesis and evaluation of some heterocyclic compounds as anti-fungal agents	Dr. Rajesh Sharma

5.2.4 List category-wise with details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years

5.3 Student Participation and Activities

5.3.1 A. List the range of sports, cultural and extracurricular activities available to students

Various sports/cultural events, seminars and competitions are conducted every year at department to provide a platform to all our students to perform in academia, sports and other co-curricular activities. A program is organized every year on occasion of

Teachers Day by graduates and postgraduates students to express their sincere gratitude to faculty members at department.

B. Sports and extracurricular calendar and details of students' participation.

(File No. 5.3.1)

5.3.2 Details of the achievements of department students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

Achievements:

- **Best Disciplined Team Trophy** in Inter departmental sports competition.
- Achieved **3rd Position in Inter departmental group dance competition.** (The participants were Harsha Jain, Shweta Gokhale, Minakshi Mandloi, Palak Puranik, Himani Chouhan, Priyanka Wadhvani, Ria Chabra, Vrinda Vyas, Toshi Agrawal, Chahat Sharma, Ranu Makwana, Akanksha Pal)
- Swati Dubey was awarded **3rd Position in Interdepartmental Fancy-Dress Competition.**

5.3.3 A. Gathered data and feedback from pass-out graduates

Feedbacks for the year of 2012-13 are taken from pass-out graduates. (Attached)

B. Gathered data and feedback from employers: Nil

C. Use of the data for the growth and development of the department

Feedback given by the students is analyzed and accordingly measures are taken for development of the department.

5.3.4 Department special drives / campaigns for its faculty and students to promote heritage consciousness

The faculty and students of the department regularly gets involve in the activities, for example, plantation, cleanliness drives and Shram daan

5.3.5 A. Details of Department involvement and encourage its students to publish materials like catalogues, wall magazines, departmental magazine, and other material: Planned in 2013-14. Group e-mails are used by the Students and Faculty to communicate their original ideas and articles.

B. List the major publications/ materials brought out by the students during the last four academic sessions. (File No. 5.3.5)

5.3.6 A. Departmental Student and Alumni association or any other similar body:

Departmental alumni association has been constituted in the department and alumni are registering on university website. Thirty eight students are registered as Alumni. Apart from this department has its own Student Welfare committee.

B. Details on its constitution, activities and funding.

Till date there is no activity and funding but in May 2013, department will constitute alumni committee in the department.

5.3.7 Details of student representatives in Board of Studies, various academic and administrative bodies:

✓ Structure provides for student representation in Board of studies.

- ✓ Departmental Committee invites student's representative of each class for regular discussions
- ✓ Student representatives are in the Library, Cultural, Sports etc. committees of the School.

5.3.8 Any other information regarding Student Support and Progression which the university would like to include.

Wi-Fi and Health care for all.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the department in line with the University

The vision is to create a functional, globally competitive & research-focused department, but responsive to the needs of the society, while delivering world-class education and knowledge.

The mission of the department is to place it in the forefront of Research and development, Innovation, Knowledge Transfer and Human Resource Development in the global academic field.

6.1.2 Mission statement definition for the department's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future,

The vision statement of the department is: "The department aspires to become a highly technical education which would inculcate the students with potential towards excellence and also would impart strong character and competence and solving problems arising out of fast changing realities, global and local".

i. Write-up of Ensuring the organization's management system development, implementation and continuous improvement.

Department has constituted various committee for smooth functioning of the system like departmental committee, exam committee, purchase committee, finance committee etc. The participation of the staff is encouraged in the process of decision-making for proper institutional functioning.

* interacting with its stakeholders: Class coordinator are directly in contact with the students. Feedback of students and alumni are taken in each session. Besides, there is a provision of parents teacher meet in every year.

* Reinforcing a culture of excellence

Development programmes for staff in the form of workshops, conferences, seminars are organized by the department and they are also encouraged to attend such events. Department encourage our staff to take part in research, do higher studies and thereby improve their professional abilities.

* identifying organizational needs and striving to fulfill them

6.1.4 Details of Departmental and other committees meetings:

The details are provided in File No. 6.1.4

6.1.6 Write-up of a culture of participative decisions in the department:

Department has constituted a separate departmental committee comprises of faculty member of the department which audits all individual committee as well as takes participative decisions.

6.1.7 Details of grooming leadership at various levels

Head of the Department delegates responsibilities for department tasks to Faculty to groom leadership, ensures the quality of teaching, teaching plan and completion of course and control evaluation and moderation. Also, he conducts regular departmental meeting and co-ordinate teaching activity. Separate committees for exam, finance, library and store have been formed and in-charge of each committee is accountable for all activities and positive outcome of the concerned section allotted.

Committee list (2012-13) is as follows:

S. No.	Committee	In-charge	Member
01	General administration, Planning and Development (Budget, recruitment, UGC plans, Seminar/ Workshop)	Head & Departmental committee	
02	Academics and Examination	Dr. Love Kumar Soni	Dr. Rashmi Dahima Dr. M.A. Khan Dr. Anupama Parate Mrs. Apeksha Saraf
03	Finance	Dr. M. A. Khan	Dr. G. P. Choudhary Dr. Rashmi Dahima
04	Store and Purchase	Mrs. Tamanna Narsinghani	Dr. G. P. Choudhary Dr. Rashmi Dahima Mr. Jitendra Sainy Mrs. Apeksha Saraf Mr. Gajanand Engla
05	Scholarship and Fellowship	Dr. Nidhi Dubey	Dr. Mukesh Sharma Mr. Jitendra Sainy
06	Documentation (IQAC, NAAC, PCI, AICTE, CET)	Dr. Rashmi Dahima	Dr. Nidhi Dubey Dr. Anupama Parate Mr. Gajanand Engla
07	Admission Committee	Dr. Rashmi Dahima	Dr. G.P. Choudhary Dr. Nidhi Dubey Dr. Love Kumar Soni Dr. M. A. Khan Dr. Mukesh Sharma Mr. Jitendra Sainy
08	Library	Mr. Gajanand Engla	Mrs. Tamanna Narsinghani
09	Medicinal Garden, Garden and Plantation	Dr. G.P. Choudhary	Dr. Mukesh Sharma Mr. Jitendra Sainy
10	Student Welfare	Dr. Anupama Parate	Dr. G.P. Choudhary Dr. Love Kumar Soni Dr. M. A. Khan Mr. Jitendra Sainy Mrs. Apeksha Saraf
11	Class coordinator of B. Pharm I	Dr. Rashmi Dahima	--
12	Class coordinator of B. Pharm II	Dr. M. A. Khan	--
13	Class coordinator of B. Pharm III	Dr. G. P. Choudhary	--

14	Class coordinator of B. Pharm IV	Mr. Jitendra Sainy	--
15	Class coordinator of M. Pharm	Dr. Love Kumar Soni	--

6.1.10 Details of knowledge management strategy (File No.)

Hard copy of notes (teaching material), handouts of Powerpoint presentations, photocopies of OHPs, CDs are the important elements of knowledge management strategy.

6.1.11 Write up on

- * Contributing to national development

Department strives hard to provide value based education and inculcate in students strong character, attitude of self-learning, research orientation, etc. to match the needs of global market. 346 B. Pharm, 70 M. Pharm and 19 PhD have graduated between 2001-2013 and serving the Nation Drug & Pharma Industry, Pharmaceutical higher education & research Institute.

- * Fostering global competencies among students

The designed curriculum is in accordance with the industrial need, research orientation and to seek higher studies worldwide. The students are provided with e-journals, e-library, well equipped laboratories so that to keep pace with the global needs.

- * Inculcating a sound value system among students

Various activities and seminars being organized like seminar by ALL WORLD GAYATRI PARIWAR, HARIDWAR on yoga and meditation, by ISKON TEMPLE, UJJAIN on Positive Habits, NSS activity like SHRAMDAN, etc to promote values among students.

- * Promoting use of technology

Department provides internet facility, ICT classrooms, e-journals and promote power point presentations to improve IT skills of the students. Besides, it also provide high technology instruments for research work like IR Spectrophotometer, HPLC and UV spectrometer

- * Quest for excellence

IQA of the department monitors the quest for excellence.

6.2 Strategy Development and Deployment

6.2.1 Perspective plan for development and write-up of policies and strategies to

- * Work for Vision and for achieving the mission

The dynamic leadership and the active participation of the Faculty and Staff, both teaching and non-teaching, in academics and administration together with effective internal coordination and monitoring by IQAC make it possible for the department to achieve its goals.

- * Enhancing Teaching and learning

Innovative methods have been adopted like Multimedia presentation, Internet, e-journals for improving teaching and learning processes. Three workshops have been held in 2012-13 for improving quality of teaching learning process. Paper setting and evaluation quality, Teaching learning process quality, CBCS and Design of Academic programs for student centric learning, Lecture by Prof. Rege, College of Engineering, Pune, and on 09/09/2012, 10/05/2013 and 15.05.2013 respectively.

* Enhancing Research and development

Faculties are encouraged for higher education, to attend conferences, seminars, and are provided with study leave, to get research projects by funding agencies, etc.

* Enhancing Community engagement

Department has started National Social Service (NSS) activities wherein various drives like cleanliness, shramdan etc. are undertaken. Besides, seminars from organizations like Gayatri pariwar, Isckon temple etc. are also been organized.

* Enhancing Human resource planning and development

Department has an Internal Quality audit committee as well as a Departmental committee which comprises of Head of the Department and Senior faculty members. These committee monitors audit, makes decision, etc. Besides, various other committees have been constituted like exam committee, finance committee, purchase committee, etc. which consist of teaching as well as non-teaching staff. Each committee has an in-charge and committee members and the role of each member is well defined for proper functioning of the system with best utilisation of human resource.

* Enhancing Industry interaction

Students of undergraduate course are taken for industrial visit and they also undergo industrial training as a part of curriculum to have industrial exposure.

* Enhancing Internationalisation

Efforts are being made by Dr. E, Manivannan in department. He visited abroad for higher studies from 01/12/2011 to 11/12/2012.

6.2.2 Departmental organizational structure and decision making processes and their effectiveness.

Department has a Head of the Department, teaching and non-teaching staff.

A Board of Studies consists of members of department as well as members from national academic and industrial origin, a student representative to design curriculum, monitor quality and functioning of the system.

A departmental committee and internal quality audit cell (IQAC) consisting head of the department and senior faculty members, makes important decisions, audit various individual committee and ensure smooth functioning of the system.

Apart from these, entire department is also having various committees for individual sections, for example, exam, purchase, account, library, AICTE/PCI documentation, Sports/Cultural, NSS, Anti ragging, Maintenance and store committee.

6.2.3 Write up of functioning independently and autonomously and ensure accountability

There is separate committee for each of the section in the department. Committee monitors, audits and takes decision accordingly. A separate account committee has also been constituted which is accountable for all decisions regarding finance and

- audit.
- 6.2.5 Details of last four years, have there been any instances of court cases filed by and against the department, what were the critical issues and verdicts of the courts on these issues: Nil
- 6.2.6 Performance audit of the department by external experts: (Attached)
- 6.3 Faculty Empowerment Strategies**
- 6.3.1 Outcome of the reviews of self appraisal and PBAS and important decisions taken on that
Self appraisal and PBAS submitted by every faculty in each academic session are assessed and required measures are analyzed for improvement. Hon'ble Vice Chancellor chairperson IQAC gives comments.
- 6.3.3 List of teachers availing welfare schemes available for teaching and non-teaching staff: It is proposed to deduct 5% as Teacher Welfare Fund (TWF) from every bill and utilize it for teachers' welfare.
- 6.3.4 List and number of attracted and retained eminent faculty in last 4 years: No
- 6.3.5 Gender audit during the last four years of the department achievements and pass percentages and its salient findings.
Female 45 % Male: 55 %. Out of which 112 male absorbed in research or jobs 06 months after the completion of degree. In case of female, 50 % absorb in research or jobs, while rest got married.
- 6.4 Financial Management and Resource Mobilization**
- 6.4.1 Statements of audited income and expenditure of academic and administrative activities of the last four years. (Attached)
- 6.4.5 Efforts taken by the department for resource mobilization:
- Rs. 40 lacs were allocated for School of Pharmacy under UGC XI Plan and the same was utilized for payment of teaching staff salary of the school.
 - Per Semester Fees in 2013-14 Rs. 28, 550/- for B. Pharm and Rs. 76, 050/- for M. Pharm respectively.
- 6.4.6 Details of endowment funds created:
Fixed Deposit amount of the department is 4, 78, 49, 720/-
- 6.5 Internal Quality Assurance System**
- 6.5.1 Details of department internal quality assurance and sustenance system, give details.
Feedbacks are regularly taken by IQA of department. Meetings are regularly held between IQA of the department and IQAC of University.
(File No. 6.5.1)
- 6.5.2 Internal workshops to improve teaching, learning and evaluation No
- 6.5.3 Details of continuously review the teaching learning process
Department by revision of the curriculum, by taking feedback by students, self appraisal of faculty, etc. review teaching learning process to ensure quality teaching.
- 6.5.4 Any other information regarding Governance, Leadership and Management which the university would like to include.**

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Department Area Green Audit details

Department is having 04 gardens, 02 inside the building premises and 02 outside department building, out of which, 01 is medicinal garden. More than 100 % of area allotted is green as compared to building and premises.

7.1.2 Departmental initiative to make the campus eco-friendly?

- * Energy conservation: Energy saving steps are taken in the department.
- * Use of renewable energy: Roof top white paint to save energy and solar power station planned in 2013-14.
- * Water harvesting
- * Check dam construction
- * Efforts for Carbon neutrality
- * Plantation
- * Hazardous waste management
- * e-waste management: I.E.T. in campus manages e-waste.
- * any other (please specify)

A **PLANTATION PROGRAM** was conducted on **25th September 2012** in the auspicious presence of Hon'ble Vice-Chancellor Dr. D. P. Singh, in an attempt to give green and healthy environment to the students and faculty.



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A “**SHRAMDAAN SHIVIR**” was organized by NSS unit of School of Pharmacy, DAVV on **14th February 2013**, where campus cleaning drive was taken by all the students and staff members of the department. This Shivar was a part of **Basant Panchmi Celebration**.

A **RESIDENTIAL CAMP, NSS** was organized from 13th March 2013 to 19th March 2013 at IET, DAVV, Indore. Ten NSS Students from School of Pharmacy participated in the same. In this NSS camp, the challenging task of cleaning “Khan river” of Indore was undertaken. An environment consciousness among general public was generated through this camp.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the department

1. Internal Quality Audit is done to monitor activities in various sections of the department. To accomplish this, a committee was formed to evaluate the routine activities of the various sections of the department, like finance, exam, store and purchase, library etc. This committee gave its recommendations regarding improvement
2. School of Pharmacy has a NSS unit which take care of the various issues related to environmental consciousness and organizes plantation programs, shram dan shivirs, camps etc.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the department.

- Timely completion of syllabus and successful course management by teachers
- Student-teacher interaction and support outside the classroom

- Guidance provided to the students to prepare for various competitive exams
- Timely evaluation of sessional answer sheets. These answer sheets are shown to the students to help them improve their performance
- Timely declaration of results of semester exams
- Internal Quality Audit is done to monitor activities in various sections of the department
- Support is given to the faculty members to fetch grants from various funding agencies in the form of research projects, attending various orientation, refresher programs, summer/winter schools, conferences/seminars/workshops/short term courses, availing study leave and publishing research papers to update their academic and research profile.

Format for Details of Best Practices of the department

1. Title of the Practice

This title should capture the keywords that describe the practice.

Curriculum design, Innovative teaching methods, Feedback analysis, Human resource management, Extracurricular activities other than sports and cultural activities.

2. Objectives of the Practice

What are the objectives / intended outcomes of this “best practice” and what are the underlying principles or concepts of this practice (in about 100 words)?

- To design/revised the curriculum in accordance with the global academics and industrial trends so as to update research as well as practical skills of the students.
- To adopt various innovative teaching methods, to keep pace with the changing trends in teaching and learning processes.
- To monitor and assure quality education being provided to students, the analysis of various aspects like teaching, curriculum, evaluation etc is required.
- To monitor, audit, to take decision on various matters, and for smooth and proper functioning of the department, human resource management is required. To fulfill this, constitution of committees for several sections are needed with best human resource management.

- To inculcate values and ethics among the students, seminars and lectures from various dignitaries is required.

Department is striving hard to achieve all these objectives to promote quality education in the field of pharmaceutical sciences and to achieve heights world wide.

3. The Context

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)?

To design a curriculum which would fulfill the global needs and changing trends was a challenging task. As the curriculum of any university is directly related with the academic excellence and overall development of students, a well designed curriculum is required to be framed. To fulfill this, curriculum of different national universities was referred. The faculties were encouraged to attend the Refresher/Orientation courses or workshop to understand the concept of Innovative teaching methods by the use of Multi Media Presentation, OHP, ICT facilities. To evaluate the quality teaching, feedback from students, experts, stake holders is required to be maintained. A feedback system has been successfully started. For smooth functioning of the system, there should be well defined human resource management. For this, various committees for exam, academic, finance, purchase, maintenance etc have been framed which comprises of teaching as well as non teaching staff members. Apart from cultural and sports activities, department has started NSS activity wherein activities like shram daan, Camping, Cleanliness drives etc were organized.

4. The Practice

Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

Department encourages students and faculty members to attend various seminar, workshops, conference to update their knowledge technically as well as professionally. Students are also guided for competitive exams, higher studies abroad, Research publications etc to improve their academic and research skill. Our revised curriculum consisting compulsory Communication Skill and Personality Development subject in each semester has drastically improved overall personality of the students. Teachers were also provided with study leave for higher studies. Apart from this, to ensure overall quality of the system, Internal Audit, Departmental committee meetings, Feedback analysis etc were conducted regularly. Besides, to inculcate moral/ethics and citizenship role in students, seminars on topics like Yoga, Meditation, positive habits etc were

organized. Our department is a unit of National service scheme governed by the central government. Students can take part in various activities like Cleanliness, Plantation through NSS other than their regular studies.

5. Evidence of Success

Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words.

More than 65 students have qualified National level Graduate Aptitude Test Examination for pursuing Masters in last three years.

More than 11 students have qualified GRE Examination for higher studies abroad in last five years.

More than 11 students have qualified TOEFL Examination for higher studies abroad in last five years.

More than 2 students have qualified CAT Examination for pursuing Master in Business Administration in last three years.

1 Students has qualified Drug Inspector examination held by UPSC, New Delhi.

6. Problems Encountered and Resources Required

Please identify the problems encountered and resources required to implement the practice (in about 150 words).

Insufficient Teaching and Non Teaching Staff in the department.

Weak Financial Position because of Self Finance Nature of the department.

Decrease in Number of Students in M. Pharm due to increase in number of Pharmacy Colleges in the State compared to demand.

7. Notes

Optional. Please add any other information that may be relevant for adopting/ implementing the Best Practice in other institutions (in about 150 words).