

**Evaluative Report of the Research Laboratory
in Heterocyclic Chemistry
(Jan.2011-Dec.15)**

1. Name of the department		Research Laboratory			
2. Year of Establishment		Jan. 2011			
3. Names of Programmes/Courses offered		M.Phil., Ph.D .research Recognition by Shivaji University: June 2013- June2016			
4. Names of Interdisciplinary courses and the departments/units involved		M.Phil and Ph.D. in Chemistry and AGPM [Thrust area: Synthetic Heterocyclic Chemistry and Nanocatalysis]			
5. Annual/ semester/choice based credit system (programme wise)		M.Phil., Ph.D: Annual theory exam : PrePh.D.			
6. Participation of the department in the courses offered by other departments:					
<i>Course</i>		<i>faculty</i>		<i>Nature of participation</i>	
M.Sc. AGPM		Dr. S.S.Desai		Informal guidance for Project work	
7. Courses in collaboration with other universities, industries, foreign institutions, etc.					
<i>Duration</i>	<i>Name of institution</i>	<i>courses</i>	<i>Nature of collaboration</i>		
Jun 2013- Jun2014	KIT's Dept of biotechnology	Short term course 5 days for microbial screening	Students sent		
Jun 2014- Jun2015	DKTE's College of Engg.	Ph.D.	Co-guiding 2 Students		
8. Faculty profile					
<i>Name</i>	<i>Qualification</i>	<i>Designation</i>	<i>Specialization</i>	<i>No. of Years of Experience</i>	<i>No. of Ph.D. Students guided</i>
Dr. Ms. S.S. Desai	M.Sc. M.Phil. Ph.D. B.Ed.	Asso. Prof.	Organic Chemistry	UG 27 + PG 01 Ph.D. guidance: 9	08 +02 For Ph.D.

Thesis submitted in 2015-16 entitled: “Microwave Assisted Multi Component Synthesis and Biological Screening of Some New Pyrazole Derivatives” by Valmik S. Kapase							
Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:							
<i>Name of faculty</i>	<i>Agency</i>	<i>National /IN</i>	<i>Grants received Rs.</i>	<i>Major / Minor status</i>			
Dr. S. S. Desai	UGC	N	5,84,000	Major completed			
	CSIR	N	-	Major applied 92,37,100/-			
	DST	N	-	Major applied 23,00,000/-			
	CSIR	N	-	Major applied 31,06,820/-			
Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received			DST FIST 80,00,000 sanctioned				
9. Research Centre /facility recognized by the University			Recognized by SUK 2012-16 Recommended by LIC for 2016-19				
Publications(Jan11-Jun15)							
Before 2004: 03 [API=12.3333]							
Before 2011: 08 [API= 47.0819]							
After 2011: 09 [API=145.00]							
Name		a	b	c	d	e	f
SSD	IN	9	-	-	3 books	-	8
	N	-	6	1	-	6	14
	R	-	-	-	-	-	-
Total		9	6	1	3	6	22
a. Publication per faculty: In peer reviewed journal with ISSN							
b. Publication per faculty: full papers In non referred journal / conf. proceeding with ISBN :							
c. Publications per faculty : full papers in conf. proceeding without ISBN							
d. Monographs/ Chapters in Books :Reference books							
e. Monographs/ Chapters in Books :text books / SIM							
f. Papers presented in conferences							
Average of impact factor of publications reported/citation index/H-index							
<ul style="list-style-type: none"> • Total impact factor : 20.4892 • Highest Impact factor: 4.51 • Total Citation index: 26 • Citation index (2012-13): 26 • H index: 03 • I10 index: 01 • RG Score: 10.40 							

20.Areas of consultancy and income generated: Areas of consultancy available <ul style="list-style-type: none"> • Synthetic Organic Chemistry • Preparation of research proposals • Quality Assurance mechanism and effective functioning of IQAC 				
21.Faculty as members in a)National committees b) International Committees c) Editorial Boards				
<i>No.</i>	<i>Name</i>	<i>a</i>	<i>b</i>	<i>c</i>
1	SSD	IWSA WISE	INWES IRSAPS INAAR	-
22.Student projects:				
<i>Sr. No.</i>	<i>Name of the student</i>	<i>Title of project</i>	<i>Funding agency</i>	<i>amount</i>
1	Shri. Valmik Kapase.	Soil and water analysis	UGC Minor	1,00,000/-
2	Shri. Uttam Chougale.	Synthesis of 1, 3 Thiazine Derivatives	UGC Minor	3,65,000/-
23. Awards/Recognitions received by faculty and students : Teacher: Appreciation from DCA Students: <ul style="list-style-type: none"> ⊙ Best Poster Award In the National Conference : 01 Paper entitled “Synthesis of Res-Acetophenone Guanylhydrazone (RAG) as Analytical Agent in the determination of different metal ions.” By Vitthal A. Divate and Savita Dhongade-Desai*. Won the Best Poster Award in the National Conference on ‘Application of Nanomaterials in Synthesis’ organized by S.M.Joshi College, Hadapsar, Pune during 13 to 15/02/2012. 				
24. List of eminent academicians and scientists/ visitors to the department				
Name of visitor		Date of visit	Purpose of visit	
Prof. S.R Patil . Dr. G.N.Mulik. Prin. S.J.Naik.		21/10/2011	LIC for recognition	
Prof. M.B.Deshmukh. Dr. G.N.Mulik. Prin. S.J.Naik.		7/02/2012	LIC for recognition	
Prof. M.B.Deshmukh. Dr. S. R. Mane. Dr. A. M. Hasure.		6/01/2016	LIC for recognition	

Prof. N.J Pawar.VC SUK Prof. M.B.Deshmukh. Dr. Nandkumar Patil. Dr. Ms.A.Nikalje. Dr. Kaustubh Joshi. Ms. Purnima Pakhi. Dr. Sangeeta Makone.	6 - 7/09/2014	2 days National Conf. 3D13at Devchand College, Arjunnagar.		
25. Seminars/ Conferences/Workshops organized and the source of funding a)National b)International:				
<i>Nature of conference IN/N/R</i>	<i>Dates of conf.</i>	<i>Title of conf.</i>	<i>Funding agency</i>	<i>Funds received</i>
N	06-07/09/ 2013	Drug Designing and Discovery	UGC	85,000
Published a souvenir With ISBN 978-93-5126-349-4 with Invited Talks:05, full papers: 19, Abstracts: 31				
26. Student profile programme/course wise: 2011- 2015				
<i>Sr. No.</i>	<i>Name of the student</i>	<i>Qualification</i>	<i>Date of Registration</i>	
1	Sachin S.Khot	M.Sc., B.Ed.	June 2011	
2.	Valmik S.Kapase	M.Sc., M.Phil.,B.Ed.	June 2011	
3.	Vitthal A. Divate	M.Sc., M.Phil., B.Ed., GATE., NET.	June 2011	
4.	Mr.Uttam B.Chougale	M.Sc., NET-JRF	Jan. 2012	
5.	Poonam K. Shetake	M.Sc., M.Phil.,B.Ed.	June 2012	
6.	Uttam A.Khot	M.Sc., NET.	June 2012	
7	Sonatai Patil	M.Sc. {Gold medal}	Jan. 2013	
8	Sandeep A. Kenawade	M.Sc. NET JRF	Jan. 2014	
9	Chandrakant Raje.	M.Sc.	Jan. 2013 (Coguiding)	
10	Dipak Khaware	M.Sc.	June 2014 (Coguiding)	
27. Diversity of Students :2011-2015				
<i>Year and Name of the Course</i>	<i>% of students from the same state</i>	<i>% of students from other States</i>	<i>% of students from abroad</i>	
Ph.D.	6 (60%)	4(40%)	-----	
28. Details of Infrastructural facilities Laboratory: 649 sq ft				

Equipments purchased from		
Sr. No.	Name of the scheme	Amount used for research laboratory in Rs.
1	UGC MRP:	5,84,000/-
2	UGC Promotion to research grant:	2,75,000/-
3	UGC Additional grant	1,34,000/-
	Total	9,93,000/-

Best practice of lab: PRRAJAKTA (Progress Review of Research Activity: Joint avenue for Knowledge Transfer & Acceleration): Presentations of all research students and their mutual evaluation

Courses conducted by department
 Career oriented course of certificate in Chemical Instrumentation sanctioned by UGC for 10 lakhs. [Amount awaited]
 Curriculum design: Certificate course in Chemical Instrumentation Curriculum designed and submitted to BOS Shivaji University, Kolhapur.

35. SWOC analysis of the department and Future plans

Strengths:

- Adequate space
- Students available
- Project and funds available

Weaknesses:

- Screening facilities away from lab
- Access to only open access journals

Opportunities:

- Ph.D., research projects, publications,
- MOUs with other research centers
- Patents

Challenges:

- Approaching the authorities for patent and guidance
- Recognition from UGC
- Publications in high impact factor journals

Future plan:

- Declaration of Ph.D. of students
- Organize more conferences
- Publish more IN books, chapters in text books