

## **CRITERION III RESEARCH, CONSULTANCY AND EXTENSION**

### **3.1 Promotion of Research**

***3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.***

University has Ordinances for M. Phil., Ph.D., D.Sc., etc. Each School/Department has a Department Research Committee (DRC) to conduct the Doctoral entrance test. It is constituted as per New Ordinance number 89 and 90 of the University for the M.Phil. and Ph.D. respectively. It monitors and addresses the issues related to departments' research. Its composition is (i) Dean of the Faculty (Chairman) (ii) Chairman of Board of Studies (Member) (iii) Head of the Department/ Principal (Member) (iv) One Senior Professor to be nominated by the Vice- Chancellor. The HOD/Principal will be the coordinator. The function of the DRC is as follows.

1. To Scrutinize the applications
2. To arrange the entrance test
3. To arrange for interview
4. To submit the final list of candidates
5. Any related work assigned by the kulpati.

There is also a Research Degree Committee (RDC) for each Board of Studies. When Ph.D. Course work is completed successfully by a candidate, the RDC evaluates the Synopsis submitted by the candidate. RDC recommends the candidates for registration for Ph.D. It also accepts the registration applications for Ph.D. supervisors or co-supervisors in a research discipline. Academic Council is the final statutory body to address the issues for research, if any.

DRCs committee interviewed and selected the candidates for the Ph.D. course work after the candidate qualified in the written test conducted by the School. Ph.D. guides to successful candidates for admission in Ph.D. courses were also allotted. University has also constituted a Ph.D. Cell having a senior professor of the University as its Chairman and four members. Similarly, there is a M. Phil. Cell also. The Cells also formulate policies for transparent admissions through written entrance tests and oral interviews as per UGC Regulations.

***3.1.2 What is the policy of the university to promote research in its affiliated constituent colleges?***

Research in colleges is promoted by the university and some of colleges have been recognized as research centers and many faculties have registered as Ph.D. supervisors. There are so many research departments functioning in the Colleges. The basic facilities in UTD's are made available to the college.

Those colleges' faculty members interested in pursuing/ supervising research have been recognized as Ph.D. supervisors provided by RDCs if she/ he fulfills the eligibility criteria.

Besides, University also continuously arranges the following programs for the promotion of research activities.

1. Organization of Research Seminars/Workshops/ conferences etc.
2. University departments allow college teachers to use their laboratory and library facilities, e- journal facilities etc.

**3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?**

Funds are advanced to Principal Investigator as per requirements:

- Required funds for contingency are transferred to the Principal Investigator.
- All the basic and preliminary requirements like infrastructure, Laboratories etc. are provided to the to the Principle investigator for smooth implementation of research schemes/ projects.

**\*Advancing funds for sanctioned project funds for contingency and consumables are given as advance to the research scholars.**

Funds are advanced to Principal Investigator/research scholar as per university norms after the sanction from competent authority.

\* Providing seed money

Sanction advanced fund for research work can be utilized in the form of seed money

**\* simplification of procedures related to sanctions / purchases to be made by the investigators**

Purchasing of instruments /equipments is done at Central level as per the State Government purchasing rules. Generally, Proprietary Items can be procured directly without tendering process. Normally purchase of more than Rs.one lakh is done after open tendering.

**\* autonomy to the principal investigator/coordinator for utilizing overhead charges**

Yes, overhead charges are utilized as per University and funding agencies norms.

\* **timely release of grants**

As far as possible, University releases the grants to the Departments/ PIs in time.

\* **timely auditing**

Yes, as early as possible, timely auditing is carried out .

\* **submission of utilization certificate to the funding authorities**

Yes, as early as possible done with in stipulated time.

**3.1.4 How is interdisciplinary research promoted? \***

- **between/among different departments /schools of the university and**

University encourages collaborative and interdisciplinary projects in the UTD's. Many departments have collaborated in research and have also published joint Research papers. Provision is there in ordinance for interdisciplinary research in Ph.D. and M.Phil. In case if there is any dispute in the RDC regarding allied subjects of interdisciplinary nature, the case should be referred to the academic council. The vice chancellor may constitute a committee in this regard and the report of the committee should be placed before the academic council/standing committee.

***\* collaboration with national/international institutes / industries.***

University encourages teaching departments to pursue National/ International Collaborations. Recently, our University has signed the MOUs with Department of Biotechnology, Government of India, Ministry of Science and technology, New Delhi. The MOU was signed for the Project of Prof. R.C. Verma entitled “ Network programme for enrichment and Update of Plant Chromosome Database for Spermatophytes and Archegoniate” and sanctioned at total cost of Rs. 1,93,29,000, dated 19<sup>th</sup> March, 2015 and Vikram University share is Rs. 26,88,200.

*Following projects of Prof. D.M. Kumawat (Head, Institute of Environment Management & Plant Sc ) are running in university in Collaboration with industry.*

*The details are as follows:-*

- Assessment of Existing Crop Growth / Yield and soil Quality Around Aditya Cement Works at Shambhupra (Raj.), Sanctioned amount Rs. 3,00,000, 2013-14, 1year duration
- “Impact Assessment of Vikram Cement works” Khor, Neemuch (M.P.) on Agriculture and Crop Yield as well as Soil Characteristics of Near by Area, Sanctioned amount Rs. 3,00,000, 2013-14, 1 year duration.

***3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.***

The University promotes a culture of research through several activities such as organizing workshops, seminars, conferences etc. There are subject specific seminars / conferences as well as workshops related with future of higher education, financial management and accountability, russian language, bio-Resource conservation awareness etc., organized by the University.

Some of the prominent activities are as follows:

*Details of Workshops/Seminars/training program*

<i>S. No.</i>	<i>Name of the Programme</i>	<i>Duration</i>	<i>Name of the Department</i>
1	One day state level workshop on: "Developmental Initiatives and role of community	29 March, 2008	S.S.in Continuing Education
2	The Sataka-traya of Bharthari and their Philosophical Analysis for propounding- A universal Value Schema	26 - 28 Sept., 2008	S.S. in Philosophy
3	National Seminar on Transition as a site of cultural traffic	9 -10 Feb., 2009	S.S. in English
4	National workshop on: Past Present and Future on Higher Education	11 -12 Jan., 2010	S.S. in Economics
5	National Seminar on: Climate Change	5 June, 2010	S.S. in Botany
6	National Work shop on New Horizons in Biotechnology	11 - 12 March, 2010	S.S. in Zoology
7	National Seminar on Ancient Indian Art & Social Reality	6-7 Nov., 2009	S.S. in AIHC & A
8	Workshop on Financial Management and Accountability	28 -29 April, 2010	S.S. in Economics
9	National Seminar on: Indian Writing in English: Text & Context	15 -16 Dec, 2010	S.S. in English
10	Workshop on New Trends in Chemistry	26 – 27, March2010	S.S. in Chemistry
11	Conference on Emerging Interfaces of Physics & Technology	28 - 30 March, 2011	S.S. in Physics

**Vikram University, Ujjain (M.P.)**

12	National Assembly Session On M.P. History Culture and Ancient	2 – 3 Nov.,2011	S.S. in AIHC & A
13	Workshop in Russian Language	18 July, 2011	Russian
14	National Conference on Social Edu. Technological & Medicinal Relevance in Chemistry	25 t-26 Nov.,2011	S.S. in Chemistry
15	Bhartya Sansadiy Vyawastha awam Ahinshak Jan Andolan	15 - 16 March, 2012	S.S. in Pol.Sc.
16	National Seminar on Social Ecology and Female Child	18 March, 2012	S.S. in Soc. Sc.
17	One day Workshop on Bio-Resource conservation awareness	06 Sept.. 2012.	S.S. in Env. Mgmt
18	Emerging Trends in Computing Technologies	26-27 Aug., 2014	SOSE
19	Scientific Innovation and Intellectual Property Laws : The interface at Vikram University, Ujjain (MP)	17-20 Sep., 2014	Vikram University
20	Democratic Decentralization in India: Retrospect, Challenges and ways ahead	26-27 Sep., 2014	S.S. in Political Science
21	National Conference on Education Commission in Independent India (Recommendations, Implementation and Relevance)	13-14 Dec., 2014	Vikram university
22	International Conference on Recent Trends in Veterinary & Life sciences 2015	30-31 January.,15	S.S. in zoology
23	National Conference on Contrivance of Academic Libraries in Digital Era NCCALDE- 2015	6 -7 Feb., 2015	Library Science
24	International Conference on Emerging Interface of Plasma and Technology	9-10 March 2015	S.S. IN Physics
25	Kshipra ki Sanskritik Parampara	10 Feb., 2015	S.S. in AIHC
26	Indian Folk Culture & Archaeology	20-21 May,2015	S.S. in AIHC

***3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?***

University is in process of facilitating the researchers of eminence to visit the campus as adjunct professors. Some of the senior Visiting Fellows, adjunct faculty, **Emeritus Professors** Other eminent faculty visiting from other Universities

- Dr. S.K. Kejriwal, Professor, Development Education & Group of Adult Education, School of Studies for Social Science, Jawaharlal Nehru University, New Delhi.

- Dr. Ashok K. Sharma, Prof.& Head, Institute of Advance Educational Studies, Jiwaji University, Gwalior.
- Dr. B.K. Sahoo, Prof. & Dean (Education), R.D. University, Jabalpur.
- Dr. A.K. Mittal, Former Directore SCERT, Bhopal
- Dr. Ila Naik, Director,PERC, Gujrat Vidhyapith, Ahmedabad.
- Dr. N.C. Mahrotra, Director,Birbal Shani Institute of Palaeobotney , Lucknow.(U.P.)
- Dr. K. S. Mishra , Ex- Director, Geological Survey of India, Kolkata,(W.B.)
- Dr. R.P. Singh, Deputy Director, Institute of Reservoir Studies, ONGC, Ahmedabad, (Guj.)
- Prof. R.C. Yadav,B.H.U Varanasi, (U.P.)
- Prof. C.M.Pandey, SGPGIMS, Lucknow, (U.P.)
- Prof. Kiran Pandya, Narbada University, Surat, (Guj.)
- Prof. M.P. Pathak, A.P. Singh University, Rewa, (M.P.)
- Prof. S.N. Chaturevedi, Kashi Vidhyapeeth,Varanasi,(U.P.)
- Prof. P.D. Sharma, Jaipur.
- Dr. S.N. Limye, Sagar
- Dr. A.P. Gupta, Delhi
- Dr. S.C. Ameta, Udaipur
- Dr. G.L. Talesra, Udaipur
- Dr. Rajiv Jain, Udaipur
- Dr. Pratibha Sharma, Indore
- Prof. K.N. Guruprasad, Indore
- Prof. A.K. Pathak, Bhopal
- Dr. Vadana Gupta, Jabalpur
- Prof. C.S. Gupt, Nagpur
- Dr. Dilip S. Patil , Prof. & Director, Dept. of Life Long Education & Vidyarthi Bhavan, Mumbai.
- Prof. P.K. Sen, SGSITS, Indore
- Dr.K.P.Joshi, DAVV, Indore
- Prof. Z.A. Khan, Aligarh, (U.P.)
- Prof. Raju Khanal, Kathmandu University, Nepal.
- Prof. Deepak Subedi, Kathmandu University, Nepal.
- Prof. H.K. Pathak, Pt. RSSU, Raipur.
- Prof. H.S. Dhami, Uttarakhand
- Prof. S. Thorat, Chairman,ICSSR,New Dehli
- Prof. B Bhattacharya,VC,JNU,New Dehli

**3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

External funding for research is major source of budget earmarked for research. Schools/Institutes have project grants from number of funding agencies like UGC, MPCST, Industry, DST, ICSSR, DBT etc. All the faculty members are permitted to attend/participate and present papers in National and International conferences. Efforts are done to provide travel expenses, registration charges to researchers from UGC and other grants as per University rules. In 2014 Rs. 1.00 Lakhs was spend under the head of travel grant and in 2014-15 it should be expected around 56.12 Lakhs for books and journals, travel grant, conferences/seminars/ symposia/ workshops etc.

**3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.**

In University only research facilities are to be provided to research scholars.

**3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associate ships? If yes, provide details like number of students registered, funding by the university and other sources.**

Yes, University encourages research by awarding Post-Doctoral Fellowships/Research Associate ships research culture. The details of Post-Doctoral Fellowships/Research Associate ships are as follows.

S. No.	Name of Research Scholar	Funding Agency	2013-14 Amount Received Rs/-	2013-14 Expenditure	2014-15 Amount Received Rs/-	2014-15 Expenditure
1	Dr. S K S Kushwah	ICSSR (PDF)	358,000	358,000	-	-
2	Sunil Choudhary	ICSSR (RA)	183,332	183,332	92,000	92,000
3	Jagdish Masodkar	ICSSR (RA)	92,000	92,000	192000	192000
4	Rakesh Sisodiya	ICSSR (RA)	92,000	92,000	192000	192000
5	Yogesh Sukhla	ICSSR (RA)	74,749	74,749	-	-
6	Juhur Ahaed Malik	ICSSR (RA)	192,000	192,000	192,000	96000
7	Sunita Vadia	ICHR (RA)	144,000	144,000	-	-
8	Sashisakhar Mishra	ICHR (RA)	96,000	96000	96000	-
9	Rinku Singh	ICHR (RA)	48,000	48,000	40,500	40,500
10	Dr Hariom Panwar	Zoology (PDF)	448,000	437320	-	-
11	Dr Santosh Verma	EPCO (PDF)	90,000	90,000	-	-
12	Simta Janjote	ICSSR (RA)	100,000	57067	92000	134933
13	fPriynka Choube	ICSSR (RA)	100,000	96,000	-	-
14	Neelmani Choube	ICSSR (RA)	100,000	96,000	-	-
15	Sunil Kushwah	ICSSR (RA)	192,000	192,000	100000	96000
16	Dr Heemant Singh	ICSSR (PDF)	142,400	142,400	-	-
17	Govind Patidar	ICSSR (RA)	192,000	192,000	100000	96000
18	Dr Kusum Vaskale	ICSSR (PDF)	320,400	320,400	168000	168000
19	Dr Balbeer Singh Takhur	ICSSR (PDF)	320,400	320,400	213600	213600
20	Dr Lalita Solanki	ICSSR (PDF)	178,000	168000	142400	140000

**Vikram University, Ujjain (M.P.)**

21	Dr Maya Rawat	ICSSR (PDF)	178,000	168000	-	-
22	Dr Anjana Gupta	ICSSR (PDF)	178,000	168000	142400	140000
23	Dr Arun Modak	ICSSR (PDF)	-	-	178,000	168000
24	Dr Dharmendra Singh	ICSSR (PDF)	-	-	178,000	168000
25	Reena Verma	ICSSR (RA)	192,000	192,000	100,000	80000
26	Vijay Yadav	ICSSR (RA)	192,000	192,000	-	-
27	Rakesh Sisodiya	ICSSR (RA)	92,000	92,000	100000	-
28	Abhishek Kalayne	ICSSR (RA)	192,000	192000	192000	192000
29	Hirdeshawar Gupta	ICSSR (RA)	192,000	192,000	100000	96000
30	Archana	ICSSR (RA)	192,000	192,000	100000	-
31	Mithelish Kumari	ICSSR (RA)	192,000	192,000	192000	192000
32	Shivdas	ICSSR (RA)	192,000	192,000	100000	96000
33	Vikram Singh Gehlot	ICSSR (RA)	100,000	96,000	-	-
34	Rajendra Kumar Arya	ICSSR (RA)	192,000	192,000	100000	96000
35	Vijay Kumar Yadav	ICSSR (RA)	192,000	192,000	-	-
36	Vineeta Mandloi	ICSSR (RA)	14,000	14,000	-	-
37	Alok Goyal	ICSSR (RA)	36,000	36,000	-	-
38	Priynka Parihar	DST (RA)	269,800	269,800	-	-
39	Bhavna Ujjaliya	UGC (RA)	205,000	96,000	-	-
40	Sanjay Khede	UGC (RA)	205,000	205,000	205000	-
41	Khusbu Joshi	UGC (RA)	205,000	205,000	205000	204315
42	Kirtibal Jain	UGC (RA)	448,400	251485		-
43	Sandeep Yadav	UGC (RA)	-	-	260,800	-
44	Shivanand Yadav	UGC (RA)	-	-	259,367	-
45	Shyamu Yadav	UGC (RA)	-	-	259,367	-
46	Shryansh Koraneev	UGC (RA)	-	-	205,000	-
47	Priynka Khandelwal	UGC (RA)		-	205,000	-

**3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?**

Some of the faculty members have utilized the sabbatical leave for pursuit of higher research within the country and abroad. University encourages its faculty members to update their knowledge and skills.

**3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

Twenty eight national / international conferences have been organized by the University in last eight years. More than 500 eminent scientists/scholars participated and some of the names of eminent scientists/scholars who participated in these events are as follows.

1. Prof. S.K. Kejriwal, JNU, Dehli.
2. Prof. Nanda Parikh, Gujrat Vidhayapeth
3. Prof. R. Bhattacharya, NPL, Dehli.



4. Prof. R. Yadav, Allahabad
5. Prof. S. Behere, Aurangabad
6. Prof. P.K. Sen, SGSITS, Indore
7. Prof. R.K. Sharma, Jabalpur
8. Prof. R.N. Tiwari, BHU
9. Prof. A.K. Singh, IGNOU, Dehli
10. Prof. Sharawan Sharma, Haridwar
11. Prof. Kapil Kapoor, Pro Vice-Chancellor, JNU, Delhi
12. Prof. P.S. Kalsi, Ludhiyana
13. Prof. Heetendra Ram, Bhopal
14. Prof. Deeraj Rathore, Gujrat
15. Prof. R.R. Rao, Nagpur
16. Dr. Jagdish Arora, Ahmedabad
17. Prof. Raju Khanal, Kathmandu University, Nepal
18. Prof. Deepak Subedi, Kathmandu University, Nepal
19. Prof. V.K. Tripathi, USA
20. Dr. S.K. Dwivedi, Gwalior.

### 3.2 *Resource Mobilization for Research*

***What are the financial provisions made in the university budget for supporting students' research projects?***

At present, directly University does not have financial provision in the budget for research. However, we plan to make provision in the budget from next year.

#### 3.2.1 *Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?*

Efforts are being made to encourage the faculty to file patents. Recently the International Seminar on "Scientific Innovation and Intellectual Property Laws : The interface" has been organized by the Vikram University, Ujjain as special efforts to encourage faculty members to file patents. One US Patent is pending of Prof. M.S. Parihar and in 2008 one Indian patent of Dr. Kamlesh Dashora was in under process

#### 3.2.3 *Provide the following details of ongoing research projects of faculty:*

At present 03 projects of faculty members are ongoing in the university. These projects are funded by esteemed funding agencies like MPCST, Bhopal and DBT.

**The details of ongoing projects are as follows.**

<i>S. No.</i>	<i>Name of the Department</i>	<i>Name of PI</i>	<i>Funding Agency</i>	<i>Date of Sanction</i>	<i>Allocation Rs.</i>
1.	Botany	Dr.R C Verma	DBT	19.03.2015	2688200/-
2.	SOET	Dr. Umesh Kumar Singh	MPCST	09.12.2014.	8,08,000/-
3.	Microbiology	Dr Alka Vyas	MPCST	03.11.2012	11,980,00/-

**3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

Some of the projects of Prof. D.M. Kumawat (Head, *Institute of Environment Management & Plant Science*) are ongoing in university in collaboration with industry. The details are as follows.

- Assessment of Existing Crop Growth/ Yield and soil Quality Around Aditya Cement Works at Shambhupra (Raj.), Sanctioned amount Rs. 3,00000, 2013-14, 1 year duration
- “Impact Assessment of Vikram Cement works” Khor, Neemuch (M.P.) on Agriculture and Crop Yield as well as Soil Characteristics of Near by Area, Sanctioned amount Rs. 3,00000, 2013-14, 1 year duration

**3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

Several departments of university have been recognized for their activities by national/international agencies. The some of the examples are as follows.

School of studies in Economics by ICSSR, Delhi, UGC; S.S. in Botany by DBT, MPCST; S.S. In Political science by UGC; S.S. In Physics by DST, MPCST; S.S. In Microbiology by MPCST, UGC; S. S. in Chemistry by MPCST, UGC; S.S. in Engineering and Technology by MPCST; S.S. in Continuing Education by UGC-UNFPA etc. Also Institute of Pharmacy and V. S. Wakankar Institute of Ancient Indian History, Culture & Archaeology Department selected as Department of Excellence by the Dept. of Higher Education, Govt. of M.P.

**3.2.6 List details of**

- **research projects completed and grants received during the last four years (funded by National/International agencies).**

Total Rs. 8,024,505 has been granted and received during the last four

S. No.	Name of Dept.	Name of PI	Name of Project	Funding Agency	Date of Sanction	Allocation
1.	Economics	Dr. S.K. Mishra	Tribal Indebtedness in MP : Study of its Problems & Implications	ICSSR, Delhi	23/3/10	3,55,825/-
2.	Botany	Dr. R.C. Verma	Cytogenic and Molecular Characterization of	MPCST	29.12.10	4,98,000/-

**Vikram University, Ujjain (M.P.)**

			Some Medical Plants of the Family Liliaceae			
3.	Pol. Sc.	Dr. N.S. Panwar	implementation of Directive Principles of State Policy in Madhya Pradesh : A Case Study of Ujjain and Indore Districts	UGC	29.12.10	1,05,000/-
4.	Chemistry & Biochemistry	Dr. Uma Sharma	Studies in Interaction of Biomolecules with Synthetic Tailored Receptors-their application in biomodelling and separation techniques	MPCST	31.3.2011	11,91,000/-
5.	Physics	Dr. S.K. Ghosh	Wave Interactions in ion implanted semiconductor quantum plasmas.	MPCST	31.3.12	4,43,000/-
	Physics	Dr. Ganpat Ahirwar	Study of electromagnetic ion-cyclotron in multi-ions plasma.	DST	27.01.2012	3,96,000/-
6.	Economics	Dr. Neeta Tapan	An Impact Assessment of Micro-Credit and Livelihood Analysis: A Study in Ujjain District of Madhya Pradesh	UGC	15.3.2011	1926333/-
7.	Statistics	Dr. J.R. Singh	-	MPCST	31.3. 2009	435950/-
8.	Microbiology	Dr. Alka Vyas	Isolation and Characterization of Growth Defective Mutants of Neurospora	UGC	28.03.09	1128800/-,
9	Physics	Dr. S.B. Shrivastava	Investigation Of Microstructural Properties Of Polymers And High Te Superconductors Using Position Annihilation Spectroscopy.	MPCST	26.02.2009	438597/-
10	Chemistry	Dr. Shubha Jain	Synthesis, Characterization And Biological Activities Of Some New Heteroaryl Substituted	MPCST	30.03.2010	6,29,000/-

			Benzenes			
11	Physics	Dr. Swati Dubey	Nonlinear Interactions In Ion - Implanted Semiconductor Plasmas.	MPCST	30.03.2010	4,77,000/-

- a. Inter-institutional collaborative projects and grants received
- i) All India collaboration : NIL
- ii) International : NIL

### **3.3 Research Facilities**

***What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?***

University is doing efforts continuously to improve its infrastructure to facilitate research. University has sufficient infrastructure and equipments for research and all the School of studies/Departments have sufficient computer facility with internet connection. The e-Resource Centre of Central Library - has comprehensive information resources that are useful for academic and research purpose. It has a large collection of books, journals, DVDs, etc. These e-resources covers almost all subject disciplines including arts, humanities, social sciences, physical sciences, chemical Sciences, life sciences, computer sciences, mathematics and statistics, etc. The library and internet resources are available for all faculty, students and researchers of the University. Schools/Institutes have also created separate research laboratories space for research scholars and research work.

***3.3.1 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.***

Yes, University has a well established IT centre in central library for online access to e-journals and other databases. ICT infrastructure and e-Journals enable the information resources on line.

***3.3.2 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?***

Yes, University has a USIC. They can also get help to repair instruments and glass wares etc. USIC centre of University have Mechanical workshop, Glass Blowing workshop, electronic workshops. At present USIC clubbed with School of Engineering and Technology for the utilization of exciting resources made available to SOET laboratories and students.

**3.3.3. *Does the university provide 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)?***

Yes, the residential facilities are provided in the form of hostels and efforts are in progress to make the entire university campus Wi-Fi zone to work on their own laptops / computers. Visiting professors are provided quarters and Sikshak sadan meant for teachers. Besides, temporarily, guest house facility is given on arrival.

**3.3.4 *Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?***

- *on-campus*

The school of studies in statistics has data centre for census. It was established in 2013-2014, and is dedicated unit of the MHRD, government of India for development of research work on Demographic data and vital index. The centre is recognized today as a leading “Centre for Demography Statistics and Research in M.P” It is a unique center for Demographic aspects of India and is first center of any University in MP”.

- *Automatic Weather Station:*

The S.S. in Earth Science has Automatic Weather Station installed by ISRO on 24<sup>th</sup> September 2008. This instruments records various meteorological parameters such as atmospheric pressure, wind velocity, rain fall, relative humidity, daily temperature longitude and latitude etc. The data are been automatically transmitted to the headquarter of ISRO, Hyderabad.

- *Scindia Oriental Research Institute*

The university has Scindia Oriental Research Institute. It was established in Ujjain by the Regency Council of the erstwhile Gwalior state as a Manuscript library in 1931. Government of M.P. transferred the management of the institute to the Vikram University in 1961. The institute has a collection of more than 23,000 manuscripts including BHURJA, PATRA, and PALM-LEAF manuscripts. A number of rare manuscripts in the collection have illustrations painted in bright colors and gold. The library of printed books consists of more than 16,000 volumes. The institute has some prestigious publications to its credit. The Vikram commemoration volume printed separately in Hindi, Marathi, and English is known as an important academic contribution to the institute. There are old maps of Mahabharata battle formations and landscape, and copies of srimadbhagvata on leaves and special rolls. The indira Gandhi national center for the arts (IGNCA, New Delhi) has selected and microfilmed more than 4000 manuscripts of the institute. The institute has its own micro- film unit as well as a microfilm reader facility. Scindia Oriental Research Institute has been selected as a manuscript Resource and Conservation Center for the state of Madhya Pradesh by the National Mission for Manuscripts, Department of Culture, Ministry of Tourism and Culture, Government of India. This institute has many rare manuscripts of

historical importance from 9<sup>th</sup> Century A.D. to modern times which are used for research [purposes. Many important printed books are available for research work, especially subjects like Itihasa, Purana, Mahatmya, Katha, Kavya, Nataka, Campu, Neeti, Subhashita, Almakara, Dharamshastra, Tantra- Mantra, Stotra, Vaisheshika, Sankhya, Yoga, Mimansa, Shaiva, Buddhism, Jainism, Vedanta, Veda, Upanisad, Karmkanda, Ayurveda, Kamshastra, Sahitya, Vastushastra, etc.

• *Archaeology Museum and Excavation Department:*

Vikram University Archaeology Museum is one of the esteemed museum of India. There are lots of remarkable Idols, statues, Icons and antiquity are excited related to Malwa region. Some particular antiquities are very rare in this museum. This museum was established by Vikram University to preserve and protect heritage of malwa region in the year 1968.

- Gandhian Study Centre, School of Studies in Political Science and Public Administration
- Dr. Ambedkar Chair (Peeth): Dr ambedkar chair was established with an aim to propagate with the principles and the thoughts of the Dr. Ambedkar amongst the intellectuals, academicians and students in and around the areas of Vikram University, Ujjain. The chair also executes the research plans and put forward the recommendation and suggestions regarding the requirements of community.
- In the pipeline for research and extension work in the University-
  - a. Gurunanak Peeth, School of Studies in Hindi.
  - b. Planning Chair of Madhya Pradesh, SoS in Economics.
  - c. Kshipra Jal Sanskrati Chair, SoS in Continuing Chair.
  - d. Entrepreneurship development activities through DSW office.

**Off Campus:**

- Kalidas Academy, Ujjain is available for the research scholars.
- Kaveri Sodh Sanstan, Ujjain.
- Madhya Pradesh Institute of Social Science Research , ICSSR institute Affiliated to Vikram University, Ujjain

**3.3.5. Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Yes, The Vikram University have following national and international reputed centre's /work stations for the research scholars of various streams.

- School in Earth Science has automatic weather Station Installed by ISRO. It records various meteorological parameters such as atmospheric pressure, wind velocity, rain fall, relative humidity, daily temperature longitude and latitude etc.
- School of studies in Statistics has data centre for census. The centre is recognised today as a leading "Centre for Demography Statistics and Research" in M.P.. To achieve its objective, the centre has been working on various aspects for examples,

Mortality, Fertility, Migration and population growth. The centre serves as an effective interface between the government and universities and user organizations for development, promotion and widespread utilization of Human population in the country. The centre will cooperate with institutions and other social sciences departments for their research work.

- Scindia Oriental Research Institute, the institute has a collection of more than 23,000 manuscripts including BHURJA, PATRA, and PALM-LEAF manuscripts. A number of rare manuscripts in the collection have illustrations painted in bright colors and gold. The library of printed books consists of more than 16,000 volumes. The institute has some prestigious publications to its credit. The Vikram commemoration volume printed separately in Hindi, Marathi, and English is known as an important academic contribution to the institute.
- Dr. Ambedkar Chair was established with an aim to propagate the principles and thoughts of Dr. Ambedkar amongst the intellectuals, academicians and students in and around the areas of Vikrma University, Ujjain. The chair also executes the research paln and put forward the recommendations and suggestions regarding the requirements of the SC and ST classes ins put forward the suggestions regarding that. Equal Opportunity cell was established in 2008 to implement all schemes to SC, ST, OBC, Minority and physically challenged students. The objectives of the cell include equality, liberty Fraternity issues and strategy of Nation building.
- Vikram University Archaeology Museum is one of the esteemed museum of India. There are lots of remarkable Idols, statues, Icons and antiquity are excited related to malwa region. Some particular antiquities are very rare in this museum.This museum was established by Vikram University to preserve and protect heritage of malwa region in the year1968.

### **3.4 Research Publications and Awards**

- 3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

Yes, S. S. in Mathematics, published research journal entitled, “Vikram Methemathical Journal” . The detail of editorial is as follows

**Patron: Vice- Chancellor**

Editor –in-chief: V.H. Badshah, Professor and Head, S.S. In Mathematics

Editor: Prof. Bijendra Singh

Associate editor: Dr. Sandeep Ku. Tiwari

Editorial Board:

K. Iseki (Japan),Chung Lee Parks (Korea),Valeriu Popa (Romania), H.M. Shrivasata (Canada),H.K. Pathak (Raipur), K.C. Deshmukh (Nagpur),L.S. Singh (Faizabad); B.K. Sharma (Raipur) ; M. Imdad (Aligarh),Anil Goyal (Bhopal); S. D. Tripathi (Allahabad); H.S. Dhama (Kumanum),A. Carbone (Itlay); D. Patel (Vadodara); S. P. Singh (Bilaspur) Renu Jain (Gwalior),U.D. Tapi (Indore); V.K. Katiyar (IIT Roorkee); R.N. Singh (Rewa); Rajendra Kumar (Kurukshetra); E. Rhoades (USA); U.P. Singh (Gorakhpur); N. Palaniappan (Karaikudi),O.P. Singh (Varanasi),W.B. Vasantha

**Vikram University, Ujjain (M.P.)**

(Chennai),D.S. Chouhan (Jaipur),J.P. Singh (Rewa), S.S. Thakur (Jabalpur)  
D. Pandey (Agra), Shriram (IIT-BHU)

**3.4.2 Give details of publications by the faculty:**

S. No.	School/Institute.	NPPP	MG	CB	BE	BI	NI D	CI	SNIP and SJR	IF and HI
1	School of Studies in Economics	33	01	11	01	05	01	2-3.6	-	IF: up to 3.6
2	V.S.Wakankar Institute of Ancient Indian History, Culture & Archaeology Department	70	NIL	05	03	-	-	-	-	-
3	School of Studies in Chemistry and Biochemistry	100	01	-	-	--	-	-	-	-
4	School of Studies in Environment Management	16	-	02	-	-	-	4-7	-	HI : up to 3
5	School of Studies in Microbiology	43	-	06	01	-	-	127	-	IF: up to 28.5
6	School of Studies in Earth Science	44	-	02	01	01	-	-	-	-
7	School of Studies in Sanskrit.	55	03	-	24	09	-	-	-	-
8	School of Studies in Mathematics	174	-	01	-	04	-	-	-	-
9	School of Studies Commerce	14	-	03	-	06	-	-	-	-
10	School of Studies English	45	-	-	16	-	-	-	-	-
11	S.S. in Zoology and Biotechnology	154	-	05	-	08	-	-	SNIP: 1-1.5 SJR 1.2-1.4	IF:0.2-0.20 average 3-3.8, hI 17 – 22
12	S. S. in Political Science & Public Administration	46	-	09	01	-	-	01	-	-
13	Pt. Jawaharlal Nehru Institute of Business Management	108	-	16	-	02	-	-	-	-
14	School of Studies in Statistics	244	-	02	-	-	-	115-125	-	IF:7-11.4, hi:9-31
15	Institute of Computer Science	70	-	-	-	04	-	-	-	IF:01
16	School of Studies in Botany	22	-	01	-	--	-	-	-	IF:0.5 – 2.0
17	School of Studies in Philosophy	-	-	-	01	-	-	-	-	-
18	School of Engineering & Technology	72	-	-	04	-	-	01	-	IF: 01-5
19	School of Studies in Sociology	26	-	-	-	-	-	-	-	-
20	School of Studies in Continuing Education	49	01	12	12	01	-	02	-	-
21	Department of Foreign Languages	15	-	-	03	-	-	-	-	-
22	School of Studies in Physics	173	-	-	01	04	-	-	0-20	IF: 0-05
23	Institute of Pharmacy	119	-	-	-	05	-	-	124	IF:0-1.6,HI: 0-6
24	School of Studies in Hindi	57	-	26	17	-	-	-	-	-
25	School of Studies in Library & Information Science	48	-	31	-	-	-	-	-	-



26	Scindia Oriental Research Institute, Vikram University, Ujjain	13	-	-	02	-	-	-	-	-
27	Dr. Ambedkar Chair	10	01		03	02				

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

Faculty members of university teaching departments have published research work in national and international journals of repute.

- Peer reviewed: National - 2300, International- 576 and others journal – 23.
- Non Peer reviewed: National – 289 and others journal - 02 papers,
- e-journals: International – 09, National – 03,
- Conference proceedings: International – 04, National – 94 and Others – 12,  
No. of books published: With ISBN No. 193, Without ISBN No 99
- Chapters in Edited Books: 111

Some of the key contribution reported by the faculty members are as under:

*Abbreviations # \* NPPP is used for Number of papers published in peer reviewed journals (national / International), \*MG: Monographs, \*Chapter in Books: CB ;, Books edited: BI ;, Books with ISBN, NID; Number listed in International Database, CI;, Citation Index, IF: Impact factor and HI for h index.*

**3.4.3 Give details of**

**\* Faculty serving on the editorial boards of national and international journals**

Several faculty members of the University serving on *the editorial boards of national and international journals of repute:-*

Prof. R.C.Verma

- Joint Editor of the Journal of Cytology & Genetics.

Prof M S Parihar

- Editorial board member in International Journals.
- Bioscience Biotechnology Research Communication.
- Journal of Biochemical and Pharmacological Research.
- Adhoc Editorial review editor of 29 International journal.

Dr. Geeta Nayak

- Member of Editorial Boards in international Referred Research journal, Sahitya Vartika Varanasi.

Prof. Shailendra Sharma

- Chief Editor, International Research Journal, Akshar Warta.
- Consultant, Meerayan, Research Journal, Patron, Vindhyan Bloom

Dr. Sudhir Kumar Jain

- Member of Editorial Board Donnish Journal of Microbiology And Biotechnology Research (DJMBR).
- Executive Editor International Journal of Microbiology Research (Bioinfo Publication).

- Member of Editorial Board Science Research (Science Publishing Group).
- Member of Editorial Board Donnish Journal of Microbiology And Biotechnology Research.
- Member of Editorial Board, BIOZONE (International Journal of Life Science).

Dr. Umesh singh

- Member of Review Committee of International Journal of Network Security.
- Member, Technical Review Committee, International Journal of Computer Science and ♣ Information Security (ISSN: 1947-5500).

Dr. Sonal Singh

- Member of editorial Board of ISRJ Member of International Advisory Board of International On line Multidisciplinary Journal” Review of Research”,
- Member of Advisory Board of “Asian Journal of Social Science Review” Member of Board of Studies and PhD examiner for many Universities of India.

Dr. Darshan Dubey

- Member of Advisory board, International Journal of pharmacy and Life Sciences.

*\* faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies*

Prof M.S. Parihar

- Organizing Secretary, International Congress on Sustainable Development of Environment and Wildlife, organized by MP Inst Soc Sciences & Vikram University, Ujjain.
- Organizing Secretary, International Conference of Scientific Innovation and Intellectual
  - Properties Laws: The Interface, organized by Vikram University, Ujjain. Advisor, World Congress of Neurotechnology (12-14, Oct 2010) Rome, Italy

Dr. Umesh Singh

- Member of Conference Committee in 9th European Conference on Knowledge Management held at Southampton Solent University, Southampton, UK during September, 2008.

#### **3.4.4 Provide details of**

*\* Research awards received by the faculty and students*

Various International and National Research Awards were received by the faculty members and students of the university. The details are as follows:-

Prof. Shailendra kumar Sharma

## Vikram University, Ujjain (M.P.)

- Wishwa Hindi Sewa Samman (World Hindi service honour) 2013 in the international Conference organized at Bangkok (Thailand)
- World Hindi honour by Malwa Rangamanch Committee and Kritika Communication, Mumbai in the 2011.
- Shabda Sahitya Samman 2008 by 'Shabda' literary institution, Bangalore (Karnataka) on 13 July 2008 at the annual festival.
- Hindi Sevi Samman 2008 by Nehru Yuva Kendra organization, Madhya Pradesh- Chhattisgarh, Ministry of Youth Affairs and Sports, Govt. of India in the State level official language conference for contribution to upgrade official language Hindi.
- Shantidoot Sanskriti evam Shanti Award 2008 (Peacekeeper Culture and Peace Award) for contributions to World peace and human solidarity in the field of peace, culture and education by World Peace and Culture Centre WPCC on the occasion of the first World peace conference of 2008
- Acharya Hajārīprasāda Dvivedī national honour 2009 in Vikas Sanskriti Festival organised by Vikas Sanskriti Sanstha in collaboration with the Department of Culture, Chhattisgarh government.
- Akshraditya honour 2009 by Akhil Bharateey Sahitya Sangam, Udaipur.
- National Kabir honor 2010 conferred by the Sahityik Sanskritik Kala Sangam Academy, Priawan-Pratapgarh (UP).
- Aalochana Bhooshan Award, 2011 by All India Rashtrabhasha Development Organization, Ghaziabad and the U. S. M. Journal.
- Vidyavachaspati Award 2012 by Vikramshila Hindi Vidyapeeth, Ishipur-Bhagalpur (Bihar) in the 17th National Conference.
- Vidyasagar Award 2013 by Vikramshila Hindi Vidyapeeth, Ishipur-Bhagalpur (Bihar) in the 18th National Conference
- Dr.Santosh Tiwari Samiksha Samman by M.P. Writers'; Association, Bhopal in the year 2009, for significant contribution in Hindi Criticism.
- Hindi Sewi honour by Hindi Sahitya Sammelan in 2009 to active contribution in Come children, listen to the story of freedom ';program
- Literary honour 2011 by Saral kavyanjali, Ujjain-
- Lok Sanskriti Award by the Malav Lok Sanskriti Pratishtan, Ujjain for outstanding contribution in the field of Malwi language and culture in 2010.
- Saraswat Samman 2011 by Jhalak Nigam Cultural Trust, Ujjain.
- Hindi Bhasha Bhushan honor conferred by Sahitya Mandal, Nathdwara, in the 2011

Prof. R. C. Verma

- "Best Scientific Research Publication Award" 2012-2013 by the M.P.C.S.& T. (Bhopal), University Cell, Vikram University, Ujjain

Dr. Darshana Mehta

- “Dr. P. D. Sethi’s Appreciation Award” to two paper in the year 2009  
Vaishali Vyas was awarded with best paper award at NATCHEE, Agra, 2010

Dr. Meenal Gupta

- Best poster in National Conference on Social, Educational, Technological and Medicinal Relevance of Chemistry to Celebrate International year of Chemistry-2011.

Dr. Swati Dubey:

- Best Scientific Research Publication Award 2009-10 (New J. Phys.) by M.P. Council of Science & Technology, Bhopal.

Dr. D. D. Bedia

- National Kabeer Award 2013

Dr. D. Mehta:

- Best Paper Awards, In International Conference (Udaipur) 2013-14

Mr. Dharmesh Sisodia and Dr. Kamlesh Dashora:

- Second research award received from UGC National seminar on Advances in pharmaceutical research at university institute pharmacy, Pt. Ravi Shankar Shukla University, Raipur. January 28th - 30th 2011

Prof. Geeta Nayak :

Honored by M.P. hindi sahitya sammelan Ujjain in the memory of Dr. Chintamani upadhyay (12 June 2011)

Dr. Meena Wadhvani:

- Second prize in paper presentation at National Conference at Indore, (MP), 2012.
- First prize in paper presentation at International Conference at Bon Maharaj Engineering College Vrindawan, Mathura, (UP), 2012.

Disha Anchaliya: (Student)

- Best paper Award in MPCST, Bhopal in the Year 2013

Dr. Tanuja Kadre (Doctoral / post doctoral fellows):

- Third prize in International Conference at Jalandhar, 2011

Dr. Meena Wadhvani:

- Sectional Recorder in the International Science Congress at Pacific University Udaipur (Rajasthan)

Ku. Mohik Tobar

- Best Student of M.P. University award in Year 2013.

Mayank Shukla

- All India award for best student in student parliament 2014

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

Prof Ram Rajesh Mishra:

- Government of India conferred honorary rank of Colonel in the year of 2011, for the outstanding contribution in the field youth defense activity.
- Visiting Professor of International Institute of Adult Education and Life Long Education (IAEA) from 2008 to till date.

Prof. Tapan Choure:

- Member of Selection Committee and Interview Boards in Different PSCs of States of India
- Secretary of Madhya Pradesh Economic Association
- President of Madhya Pradesh Economic Association
- Deliver lectures in Refresher Courses and Training Programmes as a Resource Person
- Patron of Madhya Pradesh Economic Association
- Member, Central board of Economics, Dept. Of Higher Education, Govt. Of M P , Bhopal.
- Fellow of Indian Economic Association.
- Fellow of The Indian Econometric Societies.
- Executive Member, of Indian Economic Association.
- “Utkarsha” and “ The Centre for Holistic Development Societies”, Ex-Officeo of both the NGO.

Dr. R.K. Ahirwar:

- Member of MP Itihas Parishad
- Member of Dalit Sahitya Academy

Dr. Susmita Pandey

- Member of Indian History & Culture Society
- Member of Indian Art History Congress
- Member of MP Itihas Parishad
- Member of NMMA (ASI) Central Govt Project
- Member and Subject Expert for Scientific and Technical Terminology Govt. of India, Ministry of HRD.
- Board Member of Dr. V.S. Wakankar Shodh Sansthan Bhopal

Prof. B. K Mehta:

- Elected Member of the Executive committee of ICC (2008- till date)
- Expert Member Board of Studies in Applied Chemistry, SGSITS,
- Expert member in 12th Chhattisgarh Young Scientist Congress, at Pt. Ravi Shankar University, Raipur (CG).

Dr. Uma Sharma:

- Member, Board of Studies, SGSITS, Indore
- Project Evaluation Committee of Holkar Science College

Prof. V. H. Badshah:

- Member of Selection Committee and Interview Boards in Different PSCs of States of India,
- RDC Experts and Ph.D. Examiners of Different Universities of India.
- Association Member, Central board of Mathematics, Dept. Of Higher Education, Govt. Of M.P., Bhopal.

Dr. Umesh Kumar Singh :

- Senior Member of International Association of Computer Science and Information Technology (IACSIT), Singapore
- Member of International Association of Engineers (IAENG), Hong Kong.
- Member of Internet Society, Geneva, Switzerland.

**3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?**

University Awarded 690 Ph.D.s in four years with 287 guides and 713 M. Phil Awarded during the last four years.

Ph.D. scholars guided per faculty during the last four years = 2.40:1

Ph.D. Awarded Statistics Last 4 Year

- Member of Internet Society, Geneva, Switzerland.

**3.4.6 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?**

University Awarded 690 Ph.D.s in four years with 287 guides and 713 M. Phil Awarded during the last four years.

Ph.D. scholars guided per faculty during the last four years = 2.40:1

Ph.D. Awarded Statistics Last 4 Year

S.No.	Year	Arts	Science	Life Science	Social Science	Law	Education	Home Science	Management	Library and Information Science	Commerce
1	2011	39	31	6	51	9	4	0	5	2	12
2	2012	40	34	13	39	2	3	0	7	2	15
3	2013	26	28	10	38	4	9	1	2	2	16
4	2014	56	43	6	47	4	9	3	9	5	29
	Total	161	136	35	175	19	54	4	23	11	72

M.Phil. Awarded Statistics Last 4 Year (2010-11 to 2013-14)

S. No.	Subject	2010-11	2011-12	2012-13	2013-14
1	Hindi	19	20	-	09
2	English	23	22	-	08
3	Pol. Science	23	24	02	15
4	Social Work	01	12	-	01
5	AIHC & Arch.	23	38	-	21
6	Economics	08	08	04	09
7	Public Admin.	07	-	-	-
8	Sanskrit	09	12	-	04
9	Mathematics	19	37	02	12
10	Library Science	03	13	-	08
11	Statistics	02	12	-	03
12	Zoology	08	10	-	18
13	Chemistry	31	31	02	08
14	Geology	04	11	-	-
15	Physics	04	19	-	02
16	Commerce	31	35	01	-
17	Computer Science	25	16	-	04
18	Sociology	-	06	-	02
19	Biochemistry	-	-	02	06
20	Botany	-	-	-	04
	<b>Total</b>	<b>250</b>	<b>316</b>	<b>13</b>	<b>134</b>

**3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

Students and Supervisors of the concern subjects takes necessary prevention to avoid malpractices and software is also available in central library to check malpractices and plagiarism in research

**3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?**

Yes, S.S. in Botany, S.S. in Microbiology and S.S. in Zoology departments have undertaken interdisciplinary research.

**3.4.8 Has the university instituted any research awards? If yes, list the awards.**

From the financial year 2008-09 university has mention provision (Budget point 3(14)) to provide award of Rs. 5000 to the best five research paper in Kalidas Samaroh.

**3.4.9 What are the incentives given to the faculty for receiving state, national**

*and international recognition for research contributions?*

From the financial year 2008-09 university had mention provision (Budget point 3(46)) to provide award of Rs. 5000 to the one faculty member of each faculty as best research paper award and also they **are felicitated by the University.**

### **3.5 Consultancy**

**3.5.1** *What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.*

Faculty members of the university provides unpaid services to the various industries and recognized institutes. University also going to create policies for the consultancy services. The Cell will formulate a policy, guidelines, mechanism and plans for participation in activities of the consultancy services. Detail of consultancy provided by the University is as follows:-

- Public Health Engineering (PHE), Department. Ujjain (MP).
- The Chief Municipal Officer, Nagar Parishad Manasa , Neemuch (MP).
- Vikram Cement, Neemuch

**3.5.2** *Does the university have a university-industry cell? If yes, what is its scope and range of activities?*

University is going to create University-Industry Partnership Cell. The Cell will formulate a policy, guidelines, mechanism and plans for participation in activities of the Universities such as teaching, training, and research.

**3.5.3** *What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?*

At present, no any clearly define policies of consultancy services in university but in future following mode will be helpful for the publicizing the expertise of the university for consultancy services

- The detail of consultancy will be provided by publishing in leading news papers.
- The detail of the consultancy services will be available at [www. Vikramuniv.net](http://www.Vikramuniv.net) and department notice board also.

**School of Engineering & Technology , Ujjain**  
**Department of Civil Engineering**  
**Detail of Consultancies Provided**

<b>S. No.</b>	<b>Name of Organization</b>	<b>Nature of Consultations</b>	<b>Constancy fees Charged</b>
1	Public Health Engineering (PHE), Department. Ujjain (MP)	Checking of structural design & drawing of over head water tank and under ground sump near Garhkalika Mata Temple, Ujjain	10000/-



**Vikram University, Ujjain (M.P.)**

2	Public Health Engineering (PHE), Project sub Division, Ujjain (MP)	Compressive Strength testing of concrete cube	225/-
3	The Chief Municipal Officer, Nagar Parishad Manasa , Neemuch (MP)	Checking of structural design & drawing, Water supply scheme for Nagar Parishad, Manasa , distt. Neemuch (MP)	75,0000/-
4	The Chief Municipal Officer, Nagar Parishad Malhargarh Mandsaur(MP)	Checking of structural design & drawing, Water supply scheme for Nagar Parishad, Malhargarh distt. Mandsaur (MP)	75,0000/-
5	Public Health Engineering (PHE), Project sub Division, Ujjain (MP)	Crushing Strength & Water absorption testing of bricks	900/-
6	Public Health Engineering (PHE), Project sub Division, Ujjain (MP)	Concrete cube, Compressive Strength testing	225/-
7	Public Health Engineering (PHE), Project sub Division, Ujjain (MP)	Concrete cube, Compressive Strength testing	225/-
<b>TOTAL FEES</b>			<b>- 161,575/-</b>

**3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?**

Expertise of teachers will be utilized in administration and technical services of the university from time to time

**3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.**

The total revenue of Rs. 2,304,575/- generated through consultancy. The detail is as follow.

- Public Health Engineering (PHE), Department. Ujjain (MP).
- The Chief Municipal Officer, Nagar Parishad Manasa , Neemuch (MP).

**3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact**

*on students' campus experience during the last four years.*

A number of programs and activities with the specific themes pertaining to social responsibilities of the citizens are organized regularly by the NSS, NCC and DSW. Students are also encouraged to inculcate moral values and universal brotherhood through several programmes organized by the University. Here, is an indicative list of specific activities organized by the University which observed overwhelming response from students as well as faculty:

- Celebration of National festivals at large scale with help of DSW, NCC, NSS, Sports departments and also given two category of awards i.e., Vikram Pratibha Samman for students, and Gantantra Divas Saman for university's best employee
- "Maitri Diwas" has been organized to increase friendship among students.
- Celebration of Youth Festival – Inter-Class, Inter-Collegiate, Inter-District
- Celebration of Ambedkar Jayanti
- Celebration of foundation day of the university
- Celebration of Gandhi Jayanti
- Celebration of Vivekanand Jayanti
- Organization of Blood Donation Camps
- Various Legal Awareness programmes through Ambedkar Peeth
- Celebration of Human Rights Day
- "Matdata Jagrukta Abhiyan" under the auspices of NSS coordinator
- One full flagged NSS open unit is working for archeological conservation, preservation and awareness among the youth
- Celebration of Ravi ka Sankalp Divas on 25 January every year as " Sampurna Sanskratik Swaraj
- University plays a major role in celebrating the international level Kalidas samaroh .
- University has its own Vikram Sarovar, which was built up by the NSS, NCC and public partnership for the conservation and recharging of water
- To save environment University planted trees in campus and also planted Amla trees in Sangivni Vrandh

***3.6.2 How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?***

The University provides ample opportunities to the students both formally and informally to participate in the University-neighbourhood network and student engagement for the holistic development of students. University has its one full fledged open NSS unit also for the development of leadership quality among students. Some of the key activities are as follows:

- Awareness programmes for e.g. AIDS awareness and Pulse polio mission.

- Green and clean campus, making it plastic free through ‘Shramdan’.
- Sensitization programmes for Gender Equality, Environmental Conservation and Civic Ethics are organized.
- Social Service during Special Camps in villages is completed based on Implementation of Govt. Scheme & the Theme allotted to the NSS Units as per Instructions of Govt. of India.

**3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programmes?**

The University has a full fledged NSS Unit which caters to various NSS related programmes in the University Teaching Departments and in affiliated colleges. In the affiliated colleges there are 234 Government funded unit as well as 30 self financing unit distributed in seven districts. Numbers of NSS Volunteers – Over 21729 volunteers are distributed in government funded unit and 2829 are distributed in self financing units. Some of the Special activities of the NSS unit are as follows:-

**Activities undertaken by NSS Units (including SFUs):-**

<i>Sr. No.</i>	<i>Name of Activity</i>	<i>Units of Measurement</i>	<i>Achievement Progressive Total</i>
1	Plantation	No. of sapling planted	14500
2	Blood donation	No. of Camps	35
		No. of Units of Blood donated	648
3	Pulse Polio Immunization	No. of Volunteers involved	2756
		No. of children benefitted	4648
4	Participation in Health /Eye / Immunization Camps	No. of Camps	145
		No. of Volunteers participated	13800
5	Awareness Programmes/Rallies/Campaigns	No. of Programmes	120
		No. of Volunteers Participated	14000
6	Shramdhan	No. of Programmes	141
		No. of Volunteers-Hours devoted to Shramdhan	21150
7	Self-Defence Training		04
8	Disaster management Training		06

Other-Significant Achievements of NSS:

- Water conservation
- Plantation/ Aids
- Health awareness programmes
- Voter awareness programme
- Swachchata karykram
- Beti Bachao Sandesh
- Interpruner Development activity
- Leadership development programmes
- Archaeology conservation & awareness
- Maryada (Dry Toilet awareness)
- Kalidas Samaroh kalash Yatra
- Singhasth Sewa samiti

**NCC Unit:**

The University has fully fledged NCC Unit of 10 MP battalion, which caters to various NCC related programmes in the University Teaching Departments. Some of the contributions of NCC unit are as follows.

**Cadets involved in extension work/social service:**

- Pulse polio mission
- Cleaning of campus & the city
- Plantation
- HIV AIDS awareness programme
- Voters awareness campaign
- Other activities: our Cadets are doing courses on disaster management. This will help them in doing service at the time of any disaster and also at the time of Simhasth.
- Our Cadets are engaged in parade and Salami Sashtra on the occasion of Independence day and Republic day.
- Our Cadets are engaged from time to time in give guard of honor to the dignitaries who come to our university.

**3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

The University Teaching departments regularly organize sensitizing programmes to ensure social justice and empower the underprivileged and the most vulnerable sections of society. There is a well established cell for Prevention of Sexual Harassment against Women in the University, which regularly undertakes sensitization programmes for gender in justice issues.

Various departments also undertook several programmes on the issue of social justice and empowerment to underprivileged section of society in the following manner:

- Project of Ambedkar peeth i.e, on Swatantrayottar Bhart ke anusuchit jati ke Gareeb parivaron ka Samagik, Aarthik aur Sanskratik Adhayan, funded by Dr. Ambedkar Foundation Social Justice & Empowerment Ministry, New Delhi
- Organized One National Seminar by the Ambedkar Peeth on Education and Equality oriented Society and Ambedkarism
- Organized Two Workshops by the Ambedkar Peeth on the Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013 and on The Scheduled castes and the Scheduled Tribes (Prevention of Atrocities) Amendment Ordinance, 2014.
- One ongoing project is running under the department of commerce funded by ICSSR, New Delhi for PDF on the subject “ Anusuchit Janjati aur Krishi Rojgar aur arthik Vividhikaran “ in the year 2013.

In the S.S.in Sociology, Master of Social Work (MSW) students regularly organizing social and extension activities in following manner

- Student provides social services in various organizations, NGO, GO, Hospitals, etc twice a week and undertake practical training. They undertake the work of respective organizations in which they are attached.
- Students under Observational Group Visit (OGV), visits organization to study its functioning
- Village Study by students
- Awareness programmes for social and health issues including 8th March International Women Day, in May Nasha Mukti Diwas, 5th June Environment Day, 1st October Elders Day, 1st December Aids Day, etc

**3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Yes, well established NSS and NCC Unit of university regularly tracks the students' involvement in various social and outreach movements.

- Simhastha is the great bathing festival of Ujjain. It is celebrated in a cycle of twelve years when Jupiter enters the Leo sign of the zodiac, known as Simha Rashi. Ceremonial bathing in the holy waters of Kshipra begins with the full moon day of Chaitra month and continues throughout the succeeding month of Vaishakh culminating on tenth full moon day. The NSS cadets plays a important role in the crowd management, disaster management, and other necessary services.
- Similarly every year NSS cadets involved in Kalas Yatra of Kalidas Samaroh
- Special lectures are to be arranged for the NCC and NSS camps especially on Social and Moral Values, Disaster Management and Health awareness etc. and rendered their services to the remote villages.

**3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

The various extension activities organized by the University have a multidimensional impact on almost all stakeholders of the Institution. This impact is at times overt and visible and at others has got a deep latent component. Most of the initiatives that are part and parcel of these extension activities are related to the field of human and social values. The activities involved therein directly or indirectly affect the core of the students' value system which in turn have a direct bearing on the type of human being and citizen that he or she becomes. As such these practical experiences inculcate in him/her entrepreneurship skills that are vital for the progress of society. Extension activities actually allow the students to experience not just what ought to be (theory) but what is (practical component). In this way such activities help create not only a good citizen and human being but also an energetic and vibrant researcher imbued with strong analytical skills.

**3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.**

Alumnae of the university helps in the requirement of university students and regularly the University invites top representatives from social, political and scientific fraternity who meet regularly and discuss strategies of fruitful interface between the larger society and the institutions. They have taken several initiatives such creation of Vikram Sarovar, plantation in the university, renovation and furnishing of University etc.

**3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years University.**

The full-fledged NSS and NCC unit look after the extension activities and contributes in social and community development. The details of awards received are as follows:-

**Department of Higher Education, Govt. of M.P.**

**Madhya Pradesh State Level NSS Award in**

2008-09	District organizer	01
2009-10	Programme Officer	01
2010-11	Office	01
2011-12	District organizer	01
	Programme Officer	01
	Student	01
2012-13	District organizer	01
	Programme Officer	02
	Student	02
2013-14	District organizer	01

Programme Officer	03
Student	04

Dr. Prashant Puranik, Akhil Bhartiya Samrat Vikramaditya Puruskar; **Vikram Award-2013** for Archaeological awareness Received from MP Govt. Cultural Deptt. & MPTDC

### 3.7 Collaboration

**3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?**

The university have MOU between Vikram University and Director of census Operations, Ministry of Home affairs Govt. of India for setting up work station for research on sample micro data from census and also with Centre for research and training in history, archeology and palio environment, New Delhi

The PG students and Ph.D. scholars during their inter university and industrial visit were got benefited in terms of accessing new tools and technologies, up-to-date reference material and practical experience at premier national and international institutions resulting in the enrichment in the knowledge domain of the Institution as a whole. Especially students of Environment management Sciences, Pharmacy, MBA , MSW, Geology, Microbiology and Biotechnology departments are directly indirectly benefited with the industrial visit.

#### 3.7.2 Mention specific examples of how these linkages promote

\* **Curriculum development**

These Linkage help in development of curriculum

- As per industry requirement practical are included and updated in syllabus as per their need.
- Members from other university acts as co-opted members of Board of studies and help in curriculum development
- The faculty members of several departments of university served as members Central Board of Studies (Bhopal) which prepared the common syllabus for all the UG courses in Madhya Pradesh Universities.

\* **Internship**

As per the Syllabus B. Pharm., One month professional training and one day educational tour is the mandatory requirement, and after completion of training students were get benefitted in the theory and practical knowledge.

\* **On-the-job training**

On the job training is given to our students by various industries, institutes and consultants, NGO's and other universities.

\* **Faculty exchange and development**

Faculty members and students of university consistently directly indirectly utilizing the facilities of industries and universities of the M.P., India and abroad for their

research work.. Prof. M.S. Parihar visited abroad for their research project.

\* ***Research***

Several departments of university have been recognized for their activities by national/international activities. The some of the examples are as follows:

School of studies Economics by ICSSR, Delhi, UGC; S.S. in Botany by DBT, MPSCT; S.S. In Political science by UGC; S.S. In Physics by DST, MPCST; S.S. In Microbiology by MPCST, UGC, S.S. In S.S. Chemistry by MPCST, UGC, and S.S. in Engineering and Technology by MPCST; S.S. in continuing Education by UGC-UNFPA etc. Also, Institute of Pharmacy and V.S.Wakankar Institute of Ancient Indian History, Culture & Archaeology Department selected as Department of Excellence by the Depart. of Higher Education, Govt. of M.P.

\* ***Publication***

Faculty members of the University have several collaborative research papers in a international and national reputed journals

\* ***Consultancy***

Unpaid consultancies to be provided by the faculty members to the students, research scholars and industries on their demand

\* ***Extension***

NSS, NCC and MSW students of the university are continuously providing their services to the society.

\* ***Student placement***

As a result of direct and indirect collaboration in last four years 51 companies have visited and recruited 429 students from various streams

***3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?***

The MOU was signed between Department of Biotechnology, Government of India, Ministry of Science & Technology, New Delhi and University for the Project of Prof. R.C. Verma entitled “Network programme for Enrichment and Update of Plant Chromosome Database for Spermatophytes and Archegoniate” and sanctioned at total cost of Rs. 1,93,29,000, dated 19<sup>th</sup> March, 2015 and Vikram University share is Rs. 26,88,200. The Project will help in the development of new facilities in laboratory and innovative work will be created for patent level.

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



Yes, frequent visit of industries by the students and faculty members helps in the establishment of laboratories and procurement of advanced equipments and analytical instruments in the research laborator