RESEARCH, CONSULTANCY AND EXTENSION

Promotion of Research

University have a Research Committee to monitor and address issues related to research? Its composition, recommendations, which have been implemented, and their impact given below:

The University has an updated and contemporary mechanism for admission to Ph.D. courses and for their monitoring. The University first advertises the available vacant seats for Ph.D. scholars in each departments. After the scrutiny of the applications received, the Admission cell conducts entrance tests only at UTD center. The candidates then face the DPGC for interview/viva.

The cumulative and combined performances of the candidate at the test and the interview, and his/her eligibility, are the criteria that decide the recommendation of the candidates for admission to the Ph.D. courses by the concerned DPGCs. The recommendations then go through Academic Programme Committee to reach the Director of Academic Affairs (DOAA). The admission to Ph.D. courses is, therefore, fully monitored, at various stages and levels. The admitted candidates have to do a mandatory course work of two semesters, and have to be present on campus throughout till the submission of his or her thesis. Though not directly relevant here, it may be stated that the University has introduced Ph.D. courses in more than 30 subjects conducting postgraduate teaching on campus. The final draft of Ordinance on Research Consultancy has been passed by the Academic Council and Executive Council in 2011.

Policy of the University to promote research in its affiliated / constituent colleges

As a policy to promote research in the affiliated colleges, the University has regulated the formation of Board of studies (BOS) and Research Degree Committees (RDC). The grant of recognition, registration of the candidates for research and the approval of supervisors and all related activities are conducted under the provisions of Article 34 of old University ordinance.

Note: After the conversion of the University into a Central University, the adoption of UGC regulations 2009 is yet to be adopted for the affiliated colleges.

Proactive mechanisms adopted by the University to facilitate the smooth implementation of research schemes/projects?

The University has just instituted a Research and Development Section catering to the research requirements of faculty members. The section facilitates the complete process starting from the submission of research projects, their forwarding and sanctioning. The Section also facilitates the receipt and disbursement of various research grants, and supervises the functioning of the research projects.

• Advancing funds for sanctioned projects

The University promotes decentralization of the powers. The Director-Research and development, who takes care of all such activities. All the accounts are maintained by the University as University “U” account from which the funds are disbursed. The projects submitted for funding from national agencies are sent to the concerned parties within a week’s time, and any correspondence regarding funds and their disbursal is also done almost immediately.

• Providing seed money:

The University has provided seed money, either in cash, or kind to the new faculties who have recently joined. The University has also utilized these funds in the upgradation and renovation the Departmental Buildings.
• **Simplification of procedures related to sanctions / purchases to be made by the investigators**

As regards the purchase and related matters, the University has constituted purchase committees at both the departmental and the University level called Central Purchase Committee. The University has also allowed the researchers, investigators to purchase chemicals and equipments below one lakh through special departmental committees under para 146 of GFR. The University purchase committee takes care of the purchases from One to Five lakhs. The Tenders (e-tenders) for big purchases (above five lakhs) are floated twice in a financial year and are entirely dealt by the Accounts and Finance section. The University has a separate State & Purchase Section to cater the day-to-day needs of the Departments and other sections.

• **Autonomy to the principal investigator / coordinator for utilizing overhead charges**

The University does not provide any autonomy to the investigators / coordinators for utilization of the over-head charges. However, the overhead charge is transferred to the University account.

• **Timely release of grants:**

The University takes care to get timely release of grants and to submit the utilization certificates for the grants.

• **Timely auditing :**

Since the University has a separate audit wing, the bills are pre audited before going for final payments.

• **Submission of utilization certificate to the funding authorities**

The University takes care to ensure a timely submission of the utilization certificates for the grants.

**Interdisciplinary research promoted:**

Two or more Disciplines of Sciences have come together for projects and full-fledged research in many research projects. There have been interdisciplinary research endeavors bringing together Pharmacy with Botany, Zoology with Biotechnology and Microbiology, Physics and Chemistry, Criminology and Forensic Science with Chemistry. Interdisciplinary is yet to take root in the areas of Social Sciences and Humanities, Languages and Managerial decipline.

• **Between / among different departments / schools of the University and**

As per the University Ordinance, the University does promote inter disciplinary researches between two faculties of the same department, between two faculties from two different departments within the school and/or outside the school.

• **Collaboration with national/international institutes / industries.**

The University is in the processes of developing facilities and provisions for research collaboration with institutes within the country and off- shore. Some teachers of various departments, of the University have research collaborations with institutes like IITs (Kanpur, Chennai, Mumbai,) Isis (Bangalore), IISER (Bhopal), Central universities like BHU, Hydrabad, and other research Universities and Institutes like NEERI, AMPRI, within India.

- Applied Geology Department has a IUC programme to collaborate researches in paleontology with Geological Survey of India Kolkatta for the period 2010 to 2014 under IGCP (UNESCO).

- Applied Geology faculties are in collaboration with National Geology Research institute of Hydrabad for researches on Sulphide mineralisation in Gondwana area

- Applied Geology department is in collaboration with M/s. Pebble Creeks, Canada (2011-2014) for mineral studies.

- Department of Criminology and Forensic Science is involved in Collaborative research with AMPRI Bhopal and the BPR&D laboratories for research.
International:
University has recently signed three overseas MoUs: i. with Federal Polytechnic Institute, Oko, Anambra State, Nigeria; ii. with 'Foundation Institute Mar d’investigacions Mediums', Barcelona, Spain; and iii. Institute of Biotechnology, South Korea, for exchange of Academic and technological expertise. Faculties from department of Biotechnology, Applied Microbiology, Zoology and Criminology and Forensic science have visited the countries and the institutes for collaborative researches.

Details of workshops/training programmes/sensitization programmes conducted by the University to promote a research culture on campus.

Department of Ancient Indian History & Archaeology
- New Trends of Archaeological Researches in India, 19-20 December 2008

Department of Psychology
- Workshop on Cognitive Psychology, October 17-18, 2012, Dr. H. S. Gour University, Sagar, M.P. on Behavior Therapy

Department of Sociology
- Workshop on “Disaster Management” on 30\textsuperscript{th}-31\textsuperscript{st} May, 2011 sponsored by D.M.I, Bhopal, M.P.

Department of English
- Indo Canadian School Annual Symposium, 2012

Department of Sanskrit
- National Workshop on Manuscriptology & Paleography, 07-26 April 2008, NMM, INGCA, New Delhi
- Workshop on Natyashastra 01-21 May 2008, Kalidasa Academy, Ujjain

Department of Anthropology
- Organized Workshop on ‘Use of Digital Technology for data collection, 28-30 October 2013, Sponsored by Academic Staff College of the University and the department of Anthropology.

Department of Microbiology
- Hand’s on Training Programme on Microbial Techniques is being organized every year since 2008.
- In all 05 Hand’s on Training Programmes on Microbial Techniques programmes have been organized including the latest in January 2014.

Department of Chemistry
- Symposium on Biomedicine, 2010, UGC-SAP/MPCST

Department of Computer Science and Applications
- Refresher Course (31 Oct. to 19 Nov. 2011 on “Web Awareness for Academic and Administrative Communications” – ASC.
- Lok Seva Guarantee Adhiniyam Training Programme – Administrative Officers in Sagar District, Sagar.

Department of Commerce
- Workshop on National Accounting and Talent Search, Resource persons: Prof. G.K.Soral (M.L. Sukhadiya University, Udaipur), Prof. J.K. Parida, Utakal University Bhubneshwar (Orissa) and Dr. Manas Pandey (Purvanchal University, Jaunpur)

Department of Education
- One day seminar on “Non Conventional Teaching subjects”

Department of Yogic Science
- Workshop on Yoga Practices
University facilitate researchers of eminence to visit the campus as adjunct professors. Impact of such efforts on the research activities of the University.

The Departments of the University occasionally organize programmes involving eminent scholars and researchers from outside. The eminent professors visiting our campus for the conduct of doctoral viva-voce examination also deliver lectures on and about the current trends in research in their areas. Also, the professors of eminence visiting the campus at the occasion of the installation of advanced equipments address joint gatherings of teachers and students.

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Budget earmarked (Rs in Lakhs)</th>
<th>Budget earmarked for research (Rs in Lakhs)</th>
<th>% Budget earmarked for research</th>
<th>Heads of Expenditure (Rs in Lakhs) Year 2012-13</th>
<th>% Utilized</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009-10</td>
<td>4694.84</td>
<td>869.66</td>
<td>18.52</td>
<td>Sponsored Projects 315.26</td>
<td>100%</td>
</tr>
<tr>
<td>2010-11</td>
<td>10920.13</td>
<td>771.31</td>
<td>7.1</td>
<td>Fellowships 207.45</td>
<td>100%</td>
</tr>
<tr>
<td>2011-12</td>
<td>11067.21</td>
<td>2279</td>
<td>20.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td>6019.0</td>
<td>1110.66</td>
<td>18.44</td>
<td>Equipment 634.00</td>
<td>100%</td>
</tr>
<tr>
<td>2013-14</td>
<td>11809.74</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Details of University earmark funds for promoting research in its affiliated colleges.

After its upgradation to a Central University, the University intends to de-affiliate the colleges funded by the Provincial Government. The colleges are eligible for direct grants from the State Government and from the UGC. However, the recognized research centers affiliated to the University are provided research facilities at the campus. The research scholars of these centers are permitted to use the resources at the University after Seeking formal permission from the concerned department and the concerned Deans.

University encourage research by awarding Post Doctoral Fellowships/Research Associate ship. Its details like number of students registered, funding by the University and other sources.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Fellow</th>
<th>Department</th>
<th>Period</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Poornima Varma</td>
<td>Physics</td>
<td>2 years</td>
<td>9,50,000</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Simmi Jain</td>
<td>Zoology</td>
<td>2 years</td>
<td>4,45,000</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Garima Modi</td>
<td>Chemistry/Applied Geology</td>
<td>3 years</td>
<td>12,60,000</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Jamini Khateek</td>
<td>Appl. Geology</td>
<td>3 years</td>
<td>12,60,000</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Ashok Kumar Shilpkar</td>
<td>Philosophy</td>
<td>2 year</td>
<td>1,42,400</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Ashok Shukla</td>
<td>Botany</td>
<td>2 Year</td>
<td>4,82,750</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Garima Modi</td>
<td>App. Geology</td>
<td>2 Year</td>
<td>4,10,000</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Neelam Thapa</td>
<td>Lib.Sc.</td>
<td>2 Year</td>
<td>4,10,000</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Megha Das</td>
<td>Education</td>
<td>2 Year</td>
<td>3,45,732</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Rama Shankar Verma</td>
<td>Physics</td>
<td>2 Year</td>
<td>4,01,669</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Rashmi Chourasia</td>
<td>Chemistry</td>
<td>2 Year</td>
<td>8,02,400</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Uma Rajput</td>
<td>English</td>
<td>2 year</td>
<td>3,77,801</td>
</tr>
<tr>
<td>13</td>
<td>Dr. Jyoti Jharia</td>
<td>Anthropology</td>
<td>2 year</td>
<td>4,10,000</td>
</tr>
<tr>
<td>14</td>
<td>Dr. H.S. Ladia</td>
<td>Linguistics</td>
<td>5 Year</td>
<td>11,78,000</td>
</tr>
<tr>
<td>15</td>
<td>Dr. N.K. Boudha</td>
<td>Philosophy</td>
<td>5 Year</td>
<td>9,28,000</td>
</tr>
<tr>
<td>16</td>
<td>Dr. S.K. Paroche</td>
<td>A.I. History</td>
<td>5 Year</td>
<td>10,82,000</td>
</tr>
<tr>
<td>17</td>
<td>Dr. Siddhartha</td>
<td>Botany</td>
<td>2 Years</td>
<td>3,15,522</td>
</tr>
<tr>
<td>18</td>
<td>Dr. Ashish Jain</td>
<td>Pharm. Sc.</td>
<td>2 Year</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Ku. Rucni Singh</td>
<td>Zoology</td>
<td>5 year</td>
<td>2,73,733</td>
</tr>
<tr>
<td>20</td>
<td>Ms. Aakanksha Jain</td>
<td>Pharm. Sc.</td>
<td>5 year</td>
<td>6,49,000</td>
</tr>
<tr>
<td>21</td>
<td>Shri Javed Ahmed War</td>
<td>Chemistry</td>
<td>2012-13 to 5 years</td>
<td>2,50,400</td>
</tr>
<tr>
<td>22</td>
<td>Ku. Prachi Gupta</td>
<td>App. Geology</td>
<td>2 years</td>
<td>2,79,200</td>
</tr>
</tbody>
</table>
Percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad. Monitoring the output of these scholars by the University.

In the past years, the University suffered the crunch and shortage of teachers due to the posts lying vacant for many years. Therefore, the cases of sabbatical leave have been less in number. In spite of this situation, whenever possible, the University has granted sabbatical leave to its employees for their advanced research. The people who have availed Sabbatical leave in the past years are- Dr. N. K Jain of Pharmacy, Dr. Ranveer of Physics, Dr. R.N. Yadav of Chemistry, Dr. Debashe Bose of Criminology, Dr. Alok Shrotiyya of AIH, Dr. Subodh Jain of Zoology, Dr. A. K. Awasthi of English, Dr. K. S. Pitre of Chemistry.

Details of national and international conferences organized by the University alongwith the names of eminent scientists/ scholars who participated in these events.

1. **Department of Music**  
   • One National Seminar.

2. **Department of Ancient Indian History & Archaeology**  
   • New Trends of Archaeological Researches in India, 19-20 December 2008, Sagar University.

3. **Department of History**  
   • Two National Level Seminars & One National Conference

4. **Department of Philosophy**  
   • National Seminar organized by Prof. A.P. Dubey 2010 on ‘Advait Philosophy & Human Excellence’ from 11 to 13 Nov., 2010 funded by ICPR, New Delhi.

5. **Department of Sociology**  
   • National seminar in collaboration with Samanya Nirdhan Varg Aayog, Bhopal, (M.P) on 28/10/2013.
   • National seminar on “Rastrabhasha Aur Rastriya Asmita” on 5th July, 2011 (U.G.C). Funding agencies: 02 (U.G.C/University) and also Sulabh International; Samanya Nirdhan Warg Kalyan Ayog, M.P; DMI, Bhopal.

6. **Department of English**  
   • Two Day National Seminar on the theme of “Narratives of Violence in Postmodern literature” on 27 and 28th February 2014

7. **Department of Hindi**  
   • National seminar was organized in 2011. The Topic was’ Hindi Upanyas; Vimarsh Ke Naye Kshitij’.

8. **Department of Sanskrit**  
   • National Seminar on NatyaShastriya Maulik Tattvon ki Vikas Parampara, 3-5 Dec. 2009, UGC
   • National Seminar on "Sanskrit Sahityasya Aadhunik Pravrittayah",4-5, Nov. 2011.

9. **Department of Anthropology**  

10. **Department of Biotech**  

11. **Department of Microbiology**  
12. Department of Chemistry
   • 50th Annual Convention of Chemists, Agra, 2011
   • National Conference on Solid State Chemistry and Allied Areas 8th Session, 2013, UGC/CSIR/MPCST

13. Department of Physics
   • National Symposium on Advances in Laser And Spectroscopy, Feb 27-28, 2009, BRNS, CSIR, DRDO,DST, UGC, MPCST Prof. D.D. Bhawalkar, Prof. S.N. Thakur (BHU), Prof A N Singh (BHU), Prof. A K Rai (Allahabad Univ.), Prof. J. B. Gupta (BARC)
   • 8th National Conference on Solid State Ionics , 7-9 Dec. 2009, DST, CSIR, DRDO, BRNS, Prof Jan Swenson (Sweden), Prof. Suresh Chandra, (BHU), Prof. K. Hariharan, IIT Chennai, Prof. Ramaswamy Murgan, (Ponduchery University), Prof. S. A. Hashmi, Delhi University, Prof. R.K. Singh (BHU), Dr. R.S. Ningthoujam (BARC), Prof. R. C. Agrawal (RSU), Dr. Amita Chandra (DU), Prof. P. Padma Kumar, (IIT Guahati)

14. Department of Commerce
   • National conference on "Contemporary issues of Teaching and Research in Commerce and Management Education", Dec 25th – 26th 2011)
   • National conference on Teaching and Research in Accounting Oct 1st, 2012

15. Department of Commerce
   • Department of Business management, National Seminar on “Green MP Clean MP”, funded by Dr. Hari Singh Gour Central University, Sagar (M.P.)

16. Department of Education
   • One National Seminars “Education” and “Evaluation Methods”

17. Department of Yogic Science
   • National Seminar: Delegates from Germany.
Resource Mobilization for Research

The financial provisions made in the University budget for supporting students’ research projects.

The University allocates funds to the Research and Development Section every year. The section conducts its survey, and asks the Departments to send their inputs and requirements of funds. As such there is no provision for student research projects.

University taken special efforts to encourage its faculty to file for patents.

As a submission, University has so far not devised any cell for assistance to faculties in this matter, however, some faculties have filed some patents and one or two have been certified as patents.

Note: IQAC has conducted one day workshop on “Harnessing Intellectual Property & its management for Growth and Prosperity (2013)”, for the faculties.

Details of ongoing research projects of faculty:

<table>
<thead>
<tr>
<th>Year wise</th>
<th>No.</th>
<th>Name of the project</th>
<th>Name of the funding agency</th>
<th>Total grant received</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. University awarded projects</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor projects</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>Major projects</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>B. Other agencies - national and international (specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor projects</td>
<td>-</td>
<td>-</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Major projects</td>
<td>2010-11</td>
<td>Design Synthesis….One- Dr.S.K.Kashaw, Deptt. Of Pharm.Sc</td>
<td>DST, New Delhi</td>
<td>6,96,000</td>
</tr>
<tr>
<td></td>
<td>2013-14</td>
<td>Design synthesis…..neurotoxin Agents-Dr.S.K.Kashaw, Deptt. of Pharm.Sc</td>
<td>DST</td>
<td>12,00,000</td>
</tr>
<tr>
<td></td>
<td>2013-14</td>
<td>Role of Super….Signaling –Dr.Yogesh Bhargava, Deptt. of AMB</td>
<td>DST</td>
<td>17,70,000</td>
</tr>
<tr>
<td></td>
<td>2010-11</td>
<td>Vegetarian…..Assessment of M.P.- Prof. P.K.Khare- Botany</td>
<td>GOI</td>
<td>4,50,645</td>
</tr>
<tr>
<td></td>
<td>2013-14</td>
<td>INSPIRE Faculty Award-Dr.Rampal Pandey, Deptt. of Chemistry</td>
<td>DST</td>
<td>19,00,000</td>
</tr>
<tr>
<td>Total</td>
<td>05</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>Diversity studies in …..DNA Barcoders-Dr.Shweta Yadav, Deptt. of Zoology</td>
<td>DBT</td>
<td>1,08,30,400</td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>PCR Markers…..drowning-Dr.Vandana Vinayak, Deptt. of Criminology</td>
<td>DBT</td>
<td>36,87,000</td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>Toxicity of NPs……Biotransformation Agents - Dr.Shweta Yadav, Deptt. of Zoology</td>
<td>DBT</td>
<td>8,50,000</td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>Investigation……pathology-Dr.C.P.Upadhyay, Department of Biotechnology</td>
<td>DBT</td>
<td>16,86,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td>Detecting use….Food Colour-Dr.D.Bose, Deptt. of Criminology</td>
<td>MPCST, Bhopal</td>
<td>4,08,000</td>
<td></td>
</tr>
<tr>
<td>2011-12</td>
<td>Geomedical Health…..Sagar Distt.- Dr.S.H.Adil, Deptt. of Applied Geology</td>
<td>MPCST</td>
<td>4,82,000</td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td>Insilco….Agents-Dr.S.K.Kashaw, Deptt. of Pharm.Sc.</td>
<td>MPCST</td>
<td>4,80,000</td>
<td></td>
</tr>
<tr>
<td>2013-14</td>
<td>MPBC Optimization…..Inclusionomic-Dr.Naveen Kango, Deptt. of A.M.B.</td>
<td>MPBC</td>
<td>6,58,000</td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td>Phyto Pharmacological….Disease-Dr.Asmita Gajbhai, Deptt. of Pharm.Sc.</td>
<td>MPCST</td>
<td>2,07,880</td>
<td></td>
</tr>
</tbody>
</table>
### University projects sponsored by the industry / corporate houses.

- **ONGC Scholarship** to Ku. Sayma Pathan, Department of Applied Geology- Sanctioned by the Oil and Natural Gas Corporation Limited vide letter No. ONGC/A/Scholarships/WR-SU/2012-13 dated 26-10-2012 (Grant Receipts Rs. 60,000/- for 2012-13)

- Department of Applied Geology received core samples worth 2.5 crores of 1600 m from Gondwana area donated by M/S Pebble Creek Inc, canada for research and training to PG students of sulphide mineralisation in the area.

### 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, ICSRR, ICHR, ICPR, etc.) and the quantum of assistance received alongwith significant outcomes or breakthroughs achieved by this recognition.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Fellow</th>
<th>Department</th>
<th>Period</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FIST Programme Scheme</td>
<td>Chemistry</td>
<td>2011-12 to 5 years</td>
<td>95.00 lakh</td>
</tr>
<tr>
<td>2</td>
<td>FIST Programme Scheme</td>
<td>Pharm.Science</td>
<td>2008 to 5 years</td>
<td>45.00 lakh</td>
</tr>
<tr>
<td>3</td>
<td>FIST Programme Scheme</td>
<td>App.Geology</td>
<td>2005 to 5 years</td>
<td>55.50 lakh</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,95.50 lakh</td>
</tr>
<tr>
<td>1</td>
<td>SAP Scheme</td>
<td>Pharm. Science</td>
<td>2007-2012</td>
<td>39.30 lakh</td>
</tr>
<tr>
<td>2</td>
<td>DSA Scheme</td>
<td>Sanskrit</td>
<td>2007-2012</td>
<td>24.50 lakh</td>
</tr>
<tr>
<td>3</td>
<td>DRS-I Phase Scheme</td>
<td>Chemistry</td>
<td>1.4.09 to 5 year</td>
<td>57.25 lakh</td>
</tr>
<tr>
<td>4.</td>
<td>SAP Scheme</td>
<td>botany</td>
<td>2007-2012</td>
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<td>1,21.05 lakh</td>
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(*) :CASG (Center for Advanced Studies in Geology) State Govt of MP, 1979
List details of Research projects completed and grants received during the last four years (funded by National/International agencies).

- List of Research Projects in 2010-11

<table>
<thead>
<tr>
<th>Madhya Pradesh Council of Science &amp; Technology (MPCOST), Bhopal</th>
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<tbody>
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- List of Research Projects in 2011-12

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**List of Research Projects in 2012-13**

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<tr>
<th>University Grants Commission (UGC), New Delhi – 2012-2013</th>
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<tr>
<td><strong>S.No.</strong></td>
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</tbody>
</table>

**Inter-institutional collaborative projects and grants received.**

**i) All India collaboration**

Over the past five years, a few faculties have visited research laboratories within India for conducting research. There is no formal document of contract. However, the teachers have regularly been visiting these laboratories for research. These are BARC under the joint project of BRNS in Chemistry, IISc Bangalore, University of Hyderabad, BHU, Amb.Ed.kar University and Lucknow and almost all the IITs, IISER and NITTR, Bhopal, CDRI, Lucknow; Central Ground water Laboratory, New Delhi,

**ii) International**

The University has recently signed two overseas MoUs: i. with Federal Polytechnic Institute, Oko, Anambra State, Nigeria; ii. with ‘Foundation Institute Mar d’investigacions Mediums’, Barcelona, Spain; and iii. Institute of Biotechnology, South Korea, for exchange of Academic and technological expertise. Three teachers, one from the Department of Criminology and Forensic Science, one from the Department of Applied Microbiology, one from the Department of Biotechnology, and one from department of Zoology have visited these institutes and have shared facilities of the MoUs. Besides, several teachers from departments like Chemistry, Applied Geology, Physics, Pharmacy, have collaborated with laboratories and institutes abroad and within country.
Research Facilities

Efforts have been made by the University to improve its infrastructure requirements to facilitate research. Strategies have been evolved to meet the needs of researchers in emerging disciplines.

Since 2009, the University has slowly been introducing several schemes to promote research in all disciplines. The emerging streams of Bio Technology, Micro Biology, Applied Geology, and also the Basic sciences like Physics, Chemistry, Zoology and Botany. Departments have been funded to develop infrastructure for newly recruited teachers. Also, the existing laboratories for students have been refurbished and enriched from fresh grants. The new teachers, with their contemporary specializations, have due to be given Research Associates and Research Fellows to help and assist them in their research projects.

The University has almost completed the purchase and installation of sophisticated instruments to promote high quality research.

Following strategies are evolved to meet the needs of researchers in Emerging disciplines:

- Project writing
- Funding from other agencies like DST-PURSE, FIST, UGC-SAP, DSA, AICTE, DBT, DRS etc.
- Providing Scholarship/Fellowship and
- Modernization of Scientific Laboratory
- To improve the infrastructure requirements to facilitate research, the University purchased the following Equipments under Sophisticated Instrumentation Laboratory Scheme for different departments:

Out of Plan Grant:
1. Nano-Spray Dryer
2. Nuclear Magnetic Resonance Spectrometer (NMR)
3. Scanning Electron Microscope (SEM); LN2 Free EDS System (SEM); Sputter Coater System (SEM)
4. Transmission Electron Microscope (TEM)
5. Sample Preparation (TEM) Material Science; Sample Preparation (TEM) Life Science
6. Single Crystal X-ray Diffract meter System Accessories
7. Powder X-ray Diffractometer System (XRD)
8. Thin Film & Riveted Analysis Power X-ray Diffractometer –XRD
9. Induction Couple Plasma MS (ICP-MS)
10. Laser Raman Spectrometer
11. Fourier Transform Spectrophotometer (FTIR)
12. High Performance Thin-layer Chromatography (HPTLIC)
13. Rheometer

Out of DST-PURSE Grant:
1. Simulation Thermal Analyzer (STA)
2. Atomic Force Microscope (AFM)
3. Ultracentrifuge
4. DNA Sequencer /DNA Sequencer & Analysis System
5. Real Time PCR
Out of DST-FIST (Chemistry) :-
1. D8 Advance XRD System

University Information Resource Centre to cater to the needs of researchers.
Technically speaking, the University doesn’t have a centralized formal Information Resource Centre. Yet, the enrichment and upliftment of the Library Facilities, internal networking in the Departments and of the campus, the subscription to online research resources, and the promotion of ICT gadgets in Laboratories and classes are being seen as a cumulative enhancement of the mechanism of knowledge and information proliferation. In times to come, all these facilities may get centralized under a formal IRC.

Note: University has provided weblinks for UGC, AICTE, MHRD, MCST, INFLIBNET, CSIR, India.gov.in, NAAC, DST, DBT departments on the University website for their important circulars.

University Science Instrumentation Centre (USIC).

In the process of the establishment of a Sophisticated Instrumentation Centre (SIC), the University has purchased a good number of sophisticated instruments. Besides this University has a fully functional Instrumentation Centre for repairs of minor instruments, electrical and electronic gadgets. Funded by the UGC and some other sources, the centre conducts frequent workshops for technicians and scholars. The University Science Instrumentation Centre (USIC/CIL) that was established in the year 1979 to cater the requirements of the repairs, maintenance, recalibration etc. for optimum and proper utilisation of instruments of various laboratories of this University and outside University. Laboratory instruments of the cost of Rs. 20 to 30 Lakh have been put in working condition on annual average basis. The Center also provides assistance and services on analytical and specialized instruments available in USIC and in the University. It also work on designing and fabricating aids and kits and instruments required for research of the departments. It also provide training programme in instruments for students, teachers and technicians of University departments as well as of affiliated colleges.

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)?

University has provided separate residential facilities for the research scholars. Internet facility could not been provided till date, but University is making all efforts to provide the facility.

- Guest House  
- Hostels for students and scholars  
- Besides, there are residential facilities and accommodation for 23 families in the form of Teachers’ Hostel. Similar residential facility established by Applied Geology, called Green hostel provides accommodation for 6 families.

Specialized research centre / workstation on campus and off-campus to address the special challenges of research programmes.

Yes. The University has advanced research laboratories and facilities on campus, serving special streams in Forensic Science, Applied Geology, Pharmacy, Anthropology, Physics and Chemistry. Department of Anthropology has been marked as “Center for Tribal Studies” by the Ministry of Tribal Welfare, Government of Madhya Pradesh, Shamla Hills, Bhopal. Department of Geography has a “Population Research Center”. Also, the Department of English and Other European Languages has a ‘Canadian Studies Center’, partly sponsored by the Shastri Indo Canadian Studies Institute at Delhi. The Shastri Institute is funded by and partners closely with government bodies in India and Canada. The Institute aims to achieve gender equality and reduce poverty by focusing programmes on sustainable development and other United Nations agencies. Department of Sanskrit has special course on manuscriptology and have preserved valuable manuscripts on jainism.
University has centers of national and international recognition/repute.

The Forensic Science Laboratory comes in for a big mention here. Now run by the Police Department of the Provincial Government, the Laboratory was started by the University in the pioneering leadership of (Late) Prof. J. P. Jathar of the Department of Physics at the University. In the course of his crucial research, Prof. Jathar discovered new facts about ballistics. The Police Department of the State funded his research, and made him an expert in solving cases involving firearms and archery. His research later took the shape of a laboratory, which went on to become a Department taken over by the Police Department of the state. Prof. Jathar was made the first Director of the now State run Forensic Laboratory.

Department of Psychology runs a Psychological counselling center under B.S. Jain funded scheme.

Apart from this special laboratory of National Repute, the University operates a nationally recognized Population Research Centre funded by Govt of India in Department of Geography.
Research Publications and Awards

University research journal(s).

‘Madhya Bharti’ is a long standing (Year : 1952) research journal published by the University. It is a multi disciplinary journal offering space to research papers from all disciplines. It has two streams pertaining to languages, humanities and social sciences and the other pertaining to science and Engineering.

‘Isuri’ is another journal, that has been brought out by the Department of Hindi. Apart from these, ‘Samay’ and ‘Confluence’ are two more Students’ Journals published by the Departments of Journalism and the Department of Management Studies. “Bhasha Bharti”. Department of Botany publishes one journal on the scientific activities in Botanical researches.

The following is the publication record of ‘Madhya Bharti’ issues :

A. Humanities and Sciences: Madhya Bharti (Humanities) ISSN No. 0974 – 0066 : Total 07 issue

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Editorial Board 2008 - 2012
Chief Editor : Prof. Suresh Acharya
Editors : Prof. Kewal Jain; Dr. Nivedita Maitra
Prof. G.L.Puntambekar; Dr. Diwakar Singh Rajput
Shri P.P. Singh

Editorial Board - 2013
Chief Editor : Prof. J.K.Jain
Deputy Editor : Dr.Kanhiya Tripathi
Editors : Prof. A.N.Sharma; Prof. A.P.Tripathi; Prof.A.D.Sharma; Dr. Nivedita Maitra; Shri P.P. Singh; Dr.Chanda Bain

B. Humanities and Sciences: Madhya Bharti (Science):ISSN No 0972 - 7434 Total 04 issue

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Editors — 2008 -1012
Editors ; Prof. K.S. Pitre; Prof. Ram Prasad; Prof. M.D. Kharya;
Prof. Smita Banerjee ; Prof. R.K. Trivedi

Editorial Board 2012- 2013
Editor : Prof. A.P.Mishra
Editorial Board: Prof. R.A. Singh; Prof. P.K.Kathal;
Prof. J.D.Sharma ; Prof. A.P.Mishra;
Prof. Sanjay K. Jain; Dr.Naveen Kango;
Dr.C.P.Upadhyay
Details of publications by the faculty:

- Number of papers published in peer reviewed journals:
  - National: 1355
  - International: 854
- Monographs: 25
- Chapters in Books: 296
- Books edited: 475
- Books with ISBN with details of publishers: 179
- Number listed in International Database
  (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.): 20
  Citation Index – range / average: (cf. Table Below)
- SNIP: (cf. Table Below)
- SJR: (cf. Table Below)
- Impact Factor – range / average: (cf. Table Below)
- h-index range: (cf. Table Below)

- Department of Economics
  Impact factor- range/average
  Dr. Subodh Pandey: 03 Average

- Department of Psychology
  Impact Factor – range / average: .50-.85

- Department of Anthropology
  Citation Index – range / average: 1-10 Average: 03
  Impact Factor – range / average: 0.09 – 1.2

- Department of Criminology and Forensic Science
  Impact Factor – range / average: 0.5 – 4.0
  Citation Index – range / average: 75

- Pharmaceutical science

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• Department of Biotechnology
Impact Factor – range / average: Source Google Scholar & Pub-med 1.7 to 24.03, average 7.66 (A. Bhargava) from 2008 to now.
2.34 to 5.66, 2.86 (R. Anupam) from 2008 to now.
0.9 to 3.7 Average: 2.2 (Dr. C.P. Upadhyaya) from 2008 to now.
H-index: 7 (A. Bhargava), 6 (R. Anupam), 8 8.0 (Dr. C.P. Upadhyaya)

• Department of Applied Microbiology

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<td>Dr. Y. Bhargava*</td>
<td>9.8 to 1.0 (Average = 4.7)</td>
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<tr>
<td>Dr. S.K. Chaurasia*</td>
<td>Range 2.3 – 6.7</td>
<td>Average 4.04</td>
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<td>Dr. R. Mondal*</td>
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• Department of Zoology
Citation Index: Total: 1169
SNIP: 88.901
SJR: 84.45
Impact Factor: Range: 0.019 – 11.675/Avg: 1.91/Total: 264.639
h-index: 42

• Department of Physics
Impact Factor – range / average: (0 - 4.5 /2.5)
h-index: 10

• Department of Chemistry
Impact Factor – range / average: 5.03
Citation Index – range / average: ~ 18.51
h Index - Average H-index cannot be given for the department. Highest H-index is 10 (Dr. Pushpal Ghosh).

• Department of Mathematics
Impact Factor – range / average: 0 – 2.4 (Thomson Ruther)

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<td>Prof. R. S. Singh</td>
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<td>Dr. P. Gupta</td>
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<td>Prof. D. Shukla</td>
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<td>Dr. A. Pathak</td>
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<td>Dr. R. K. Gangele</td>
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<td>Dr. S. Kumar</td>
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<td>Dr. U. K. Khedlekar</td>
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<td>Dr. T. Nath</td>
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<td>Dr. K. S. Jatav*</td>
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<td>Dr. Kavita Rohit</td>
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<td>Dr. R.K. Pandey</td>
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• Department of Business Management

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<td>3</td>
<td>Ms. Babita Yadav</td>
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<td>Cabell’s directory, Open- J Gate, index Copernicus</td>
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Note: The University teachers have published papers in Chemical Reviews that carries the impact factor of 40+, whereas some publications of teachers have citation index of more than 200 and above.

Details of

- **faculty serving on the editorial boards of national and international journals**
  - **Department of Library Science:**
    - Prof. U.C. Sharma
      - IASLIC Bulletin, Professional Journal of Library & Information Technology
      - ISST Journal of Advances in Librarianship: Member, Editorial Board.
      - IGNOU, Member of Online Question Bank of M.Lib.I.Sc. Preparation Team.
  - **Department of History**
    - LYNCEAN, Research Journal, Ajmer, The Original Source, Research Journal, Varanasi,
    - SANDHAN, Research Journal, Jhansi, Mind & Society, Raipur, Shodh Upkram, Raipur, CIJHAR, Panna
  - **Department of Philosophy**
    - Prof. A.D. Sharma:
      - Editor ‘Unmilan’ and ‘Paramarsh’ Research Journal
  - **Department of Political Science & Public Administration**
    - Dr. Gopal Prasad:
      - Editor “Society & Politics” (ISSN 2248-9479), Bi-Annual Journal of Humanities and Social Sciences, Published by V.L. Media Solutions, New Delhi.
      - Editor “Adhunik Viplav” Research Magazine (ISSN 2228-3288) New Delhi
      - Editor of Advisor “Dalit Duniya” (New Delhi)
  - **Department of Sociology**
    - Editorial Boards: 06
      - Radha Kamal Mukerjee: Chintan Parampara Samaj Vigyan Sansthan UP
      - Janjati Shodh Sadhana, Rajasthan
      - Neman, Varanasi, U.P
      - Samajik Vikalp, Res. Journal of MP Sociological Society
      - Educational Wave, Chhattisgarh
  - **Department of Hindi**
    - Prof. Virendra Mohan:
      - Editor: Correspondence Course syllabus - Mahatma Gandhi Antarrastriya Hindi Vishwavidyalaya, Wardha.
    - Prof A.P. Tripathi:
      - Editor of Hindi magazine ‘Shabda Sikhar’.
  - **Department of Sanskrit**
    - Prof. R.V. Tripathi
      - Editor of “Sagarika” & “Natyam”
    - Prof. Kusum Bhuria Datta:
      - Member of Editorial Board Sagarika & Natyam
  - **Department of Anthropology**
    - Member of Editorial board of Journal Madhya Bhartiya (Manavki), Sagar
    - Member of Editorial board of Journal Anthropologist (New Delhi)
    - Member of editorial board of Journal of Health & fitness.
• Journal of Social Science
• Research Journal of Panchtatva Science Development
• Research zone (Research Journal)

Department of Criminology & Forensic Science
Prof. J. D. Sharma
• Indian Police Journal –Bureau of Police Research & Development, (BPR&D)Ministry of Home Affairs, Govt. of India, New Delhi
• Police Vigyan – BPR&D, Ministry of Home Affairs, Govt. of India, New Delhi
• e-Journal of Forensics - Govt. of Himachal Pradesh

Department of Geography:
• National Journal : Three members on Editorial Board.

Department of Pharmaceutical Science
• Six professors are members Editorial Boards for 23 different publications

Department of Botany
Prof. A. N. Rai
• Executive Editor Journal of Botanical Society, Dr. H.S. Gour University, Sagar.
Prof. U.S. Bagde*
• Associated Editor Indian Journal of Environment and Ecoplanning.
• Associated Editor Life Science Bulletin.
Dr. Deepak Vyas
• Journal of Botanical Society, Dr. H. S. Gour University, Sagar.
• Member Editorial Board International Journal of Scientific Research.
• Member of Advisory Board, International Journal of Biozone and Journal of Basic and Applied Microbiology.
Dr. Ashwani Kumar*
• Technical Editor, American Journal of Plant Physiology.
• Technical Editor Journal of Plant Sciences.
• Technical Editor International Journal of Soil Sciences.
• Technical Editor Asian Journal of Crop Science.
• Technical Editor Asian Journal of Agricultural Sciences.

Department of Chemistry
Prof. A P Mishra:
• Assistant Editor and Council member “Indian Chemical Society, Kolkata”,
• Indian Science Congress Chemical Sciences: Sectional President

Department of Commerce:
Prof. G. L. Puntambekar:
• Economic Columnist: Articles on economic issues have been published in different national & State level News papers & Magazines on regular basis. Special articles and cover stories have also been invited on Special occasions like Union and State Budgets and other current economic events.

Department of Business Management
Mr. Ashish Gupta*
• Member of Review Board for IRC’S International Journal of Multidisciplinary Research in Social & Management Sciences. (ISSN: 2320-8236)
• Member of Review Board for Book Chapters (Encyclopedia of Information Science and Technology (Book Series), IGI Global Publisher, USA.

Department of Law
Prof. P.P.Singh :
• "Madhya Bharti", Dr. H. S. Gour Vishwavidyalaya, Sagar (M.P.) ISSN 0974-0066
• “Shodh Drusthi” Srijan Samiti, Varanasi (U.P.) ISSN 0976-6650
Anupama P. Saxena*

Department of Education:
Dr. Rani Dubey:
• Member of Editorial Board of International Journal (Shikshak Shodh Patrika)

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

Department of Library Science:
Prof. U.C. Sharma*
• Hindi Sabdawali Aayog; Compilation of a glossary of LIS terms.
• Mr. Mahindra Kumar Member of Executive Committee; SLA Asian Chapter.

Department of History:
• National committees: Life Member, Indian History Congress, Institute of Historical Studies, Kolkata, Madhya Pradesh Itches Parishad, Bundelkhand Itihas Parishad

Department of Philosophy:
• Vice-President, Bhagwandasgupta Shodh Sansthan, Jhansi, President, Akhil Bhartiya Sahitya evam Sanskrit Parishad, Sagar Unit, Treasurer, Madhya Pradesh Itches Parishad, Sagar
Prof. A.P. Dubey:
• Joint Secretary of the Indian Philosophical Congress and
• Joint Secretary of FEDCUTA.

Department of Political Science:
• International committees:
Dr. Anupma Kaushik*
• Member of Prison Study Centre, Salford University, UK.
Mr. Vikas Tripathi*
• Member of India-Europe Research Networking Project CERI Paris, King’s India Institute London; London School of Economics, London; CPS, JNU; Babasaheb Bhimrao AmB.Ed.kar University, Lucknow; and Janagrah Bangalore (2013-2015)

Department of Sociology:
• National Committees: 22
• Indian Sociological Society
• Indian Society of Criminology
• Indian Institute of Public Administration
• Indian Sciences Congress Association
• Indian Social Science Association
• Board of Studies, Saurashtra University
• Indian Anthropological Association
• Indian Association for Women’s Studies
Department of Sanskrit
Prof. R. V. Tripathi:
- General President of AIOC Guwahati Session, 2014,
- International committees
- Member: Committee of International Association of Sanskrit Studies

Urdu & Persian
- Member of M.P. Urdu Academy Bhopal M.P.

Criminology & Forensic Science
Prof. J. D. Sharma
- National Convener of University courses on Forensic Sciences, Ministry of Home Affairs, Govt. of India, New Delhi 2012.
- National Committee on Police Research (2012-2015), Bureau of Police Research & Development, Ministry of Home Affairs, Govt. of India, New Delhi
- (Chairman – Home Secretary, Govt. of India, New Delhi)
- Project & Fellowship Committees of BPR&D, Govt. of India, New Delhi (2009-ongoing)
- Dr. Vandana Vinayak
- Scientific Advisor – 2nd International Summit of Toxicology 7th - 9th Oct 2013, organized by OMICS group at LAS VEGAS, USA.

Applied Geology NAAC - Evaluation Report
Dr. H. Thomas -
- Vice President, South Asia HSRG-IUGS (Heritage Stone Research Group IUGS) (2012-2016)

Department of Pharmacy
- Four Senior professors are members of 13 national Societies
- Two professors are Members of International Societies

Department of Botany
Prof. A. N. Rai
- Member of the Council Mycological Society of India

Prof. M. L. Khan*
- Councilor Range Management Society of India.
- Member Committee for climate Change, MoEF, New Delhi.
- Member Environmental Committee NEEPCO, Arunachal Pradesh.
- Member Core Committee on Climate Change Action Plan, Arunachal Pradesh.
- Editor Indian Journal of Agro forestry.
- Member Editorial Board Scientific World Journal (Ecology Section, UK)
- Member Editorial Board Nature and Environment.
- Member of Research Advisory Board, Rain Forest Research Institute, ICFRE, Jorhat, Assam.
- Member State Medicinal Plant Board, Arunachal Pradesh.
- Member State Pollution Control Board, Arunachal Pradesh.
- Expert Member In the National Year of Biodiversity, MoEF, New Delhi
Department of Chemistry
National committees:
- Almost all the faculties are life members to National Bodies/Societies like Indian Chemical society, Indian Science Congress, National Academy of Sciences,..

Prof. A.P. Mishra:
- Vice President, Indian Council of Chemists (Agra),
- Assistant Editor and Council member “Indian Chemical Society, Kolkata”,
- Indian Science Congress Chemical Sciences: Sectional President
- Association of Chemical and Physical Sciences (Allahabad), National Academy of Sciences (Allahabad),

Prof. Mrs. A. Pandey, Prof. F. Khan, Prof. S.D. Shrivastava:
- Life member: Indian Association of Solid State Chemistry and Allied Areas, Indian Analytical Society (BARC) and have served in positions like Organizing Secretary for Annual Conventions, Sessional Members, Sectional Presidents, Member Executives Council, etc.
- International Committees:

Prof. R.N. Yadava:
- National Coordinator of International Body for Allelopathy.

Department Computer Science
Prof. R.S. Kasana
- Director MP Bhoj Open University, Sagar

Department of Business Management
Prof. Y.S. Thakur:
- Member of Advisory Board of Shakti International Journal of Management Research and Development CA referred Journal ISSN. 2319-5444
- Life time membership of “Indian Accounting Association”
- Chairman, National Board of Accreditation Team to Sangli (Maharashtra)
- Member of AICTE Peer Team,
- Member, IMA, IIPA,
- Member, All India Commerce and Management Association
- Member, Association of Management development Institutes of South Asia (AMDISA)

Mr. Ashish Gupta*:
- Professional Individual Member of All India Management Association (AIMA), New Delhi. (Registration No.- M201021438)
- Individual Member of Association of Indian Management Scholars (AIMS) International, India. (Membership No.- B2-1972)
- Member of International Economics Development Research Center (IEDRC), Hong Kong. (Membership No. – 90080103)
- Life-Member of Quality Circle Forum of India, Hyderabad (India). (Membership No. – 0499013005)
- Member of International Academy of Business and Economics (IABE), Russia.
- Member of Management Teacher Consortium – Global, Hyderabad (India).
- Member of National Entrepreneurship Network (NEN), Bangalore (India).

Department of Law
Prof. G.S. Tiwari*:
- “Indian Human Rights Law Review” R. Cambray and Co.Pvt.Ltd. Kolkata (a Journal North Bengal University). ISSN 2230-7036

Department of Education:
Mr. Budh Singh*:
- District Coordinator Council for Teacher Education (Haryana State Chapter)
Details of

• Research awards received by the faculty and students, and
• National and international recognition received by the faculty from reputed professional bodies and agencies

Award

Sanskrit

Prof. Radhavallabh Tripathi

• UGC National Veda Vyas Award, 2006 Conferred on 22.2.10
• Fifth Mahakavi Kālidāśa Sanskrit Jeevanvrati Rashtriya Puraskar Awarded by Kavikulaguru Kalidas Sanskrit University, Ramtek, Nagpur (Maharashtra), 2009
• First Sri Jayadeva Sarasvati Samman, Conferred by Lokbhasha Prachar Samiti, Orissa during the inaugural session of Bhaktakavi Sri Jayadeva Samaroh in Bhubaneswar on 22nd, June, 2009.
• Sanskrit Shiromani Samman of Kanchi Shankaracharya, 2009 under Special Avatara Mahotsav Award, Conferred on 19.06.10 by Governor of M.P.,
• Jeevan Vrati Sanskrit Samman of Maharashtra Govt. 2010
• Honorary Degree of Doctor of Letters from Deccan College, Pune on the occasion of Seventh Convocation on 6.10.10.
• Rajprabha Puraskar, instituted by Kumauni Raja Academy of Indological Research (KAIR) on 16.8.10.
• Paññītārāja Jagannātha Samman of Devvani Parishad, New Delhi, 2011
• Acharya Sumatisagar Smriti Shrutasamvardhana Puraskar – of Shruta Samvardhana Sansthan, 2011
• Meera Samman of Meera Santhan Allahabad, 2012
• Samantar Samman by Samantara, Allahabad on 23.3.2013
• Akhil Bharataiya Ambika Datta Vyas Puraskar, Rajasthan Sanskrit Academy, Jaipur, 2013
• Shrimati Chandravati Joshi Sanskrit Bhasha Puraskar, 2013

Prof. Kusum Bhuria Datta

• Rashtriya Seva National Award by Akhil Bharataiya Naree Pragati Manch, Sagar, 2009
• Saraswati Shree National Award by Akhil Bharataiya Naree Pragati Manch, Sagar, 2009

Students: Received 10 Awards (Bhavbhuti Samaroh Gwalior, Kalidasa Samaroh Ujjain etc.)

Department of Hindi

Dr.Ashutosh Mishra*

• ‘Gyanpeeth Navlekhan Anushansha’, Year 2013, Ashutosh Mishra.

Department of Urdu & Persian

Dr.Abu Shaheem Khan*

• Delhi Urdu Academy , Delhi Research & Criticism Award (2009)

Department of Anthropology

Dr. Ruma Purkait

• Best Research Paper Prize by Indian Academy of Forensic Medicine, 2010
• Received First Prize at Indian Institute of Information Technology, 4th INSPIRE Internship Program/Science Conclave : A Congregation of Nobel Laureates & Eminent Scientist, 2011.

Students: Dr.(Ms.) Priyanka Singh received ‘ISCA Young Scientist award’, 2009.

Department of Criminology and Forensic Science
Prof. J. D. Sharma
- Rated as best signature verification system in Global Competition (2010) in Germany.
- Dr. Shankar Dayal Sharma Award by Govt. of Madhya Pradesh, Bhopal (2011).
- Best Paper Presentation Award at (Awarded Best poster paper presentation award at National seminar on Crime against women and children Oct 25th-26th 2013 at FSL (Sagar), M.P in collaboration with ICMR New Delhi)

Dr. Rajesh Singh Yadav*
- Awarded First Prize for the Best Business Plan Presentation at 5th Programme on Technology Led Entrepreneurship, held at Indian Institute of Chemical Technology (IICT), Hyderabad (2008), CSIR, New Delhi, India
- Molecular Chemoprevention and Therapeutics (MCT) – University of Minnesota Research Excellence Award for the paper entitled Arsenic induced dopaminergic dysfunction in rats and protective efficacy of curcumin at the annual meeting of STOX from (2010) at Jamia Hamdard, New Delhi, India.
- Best student poster presentation award for presentation of paper entitled Arsenic induced cholinergic deficits and protective efficacy of curcumin in rat brain at the 11th Biennial Meeting of the Asian Pacific Society for Neurochemistry and the 55th Annual Meeting of the Japanese Society for Neurochemistry, held on (2012) at Kobe, Japan.

Dr. Beauty Arora*
- Best Scientific Paper Award for presentation titled “Vitreous as a forensic tool in methyl alcohol intoxication: a study in rabbits” at the XIX All India Forensic Science Conference, Gandhinagar, Gujarat, India, (2009).
- Best Scientific Poster Award for presentation titled “Vitreous as a forensic marker in ethanol and methanol overdosage studies in an animal model” at the 2nd International Meeting on Research in Vision and Ophthalmology (Asia ARVO), Hyderabad, India, (2009).

Dr. Vandana Vinayak*
- Awarded “Noel Deerr Gold Medal Award” for best paper conferred by his Excellency former President of India Dr. A.P.J Abdul Kalam on the occasion of 70th Annual Convention of STAI on (2009) held at Udaipur India.
- Awarded “Young Scientist Gold Medal Award” in Molecular Biology at National seminar on Physiological and Biotechnological approaches to improve plant productivity on (2008).
- Awarded Meritorious Laureate Award FCMS-2011 at City Montessori School, Lucknow.
- Awarded Best poster paper presentation award at National seminar on Crime against women and children (2013) at FSL (Sagar), M.P in collaboration with ICMR New Delhi.

Department of Geography
- 2011 National Young Geographer Award (Association of Punjab Geographers)
- Queens Welcome India Programme, President & Advisors Retreat 2010

Department of Pharmaceutical Science
Dr. Umesh K. Patil*:
• Distinguished Indian Researcher–2009 by international society for Medicinal Plant Research (GA), Germany. The profile published in official News Letter of GA, (www.ga-online.org)
• Merit of Excellence Award-2013 by Indian Society of Pharmacology.

**Department of Botany**

Prof. A. K. Kandya:
• BRANDIS Award 2010 For Best Paper Published on Indian Forester in 2010.

Prof. P. Mehta:
• Gold Medal 2012 By Environmental Science Academy

Dr. Poonam Dehariya
• Best oral presentation award in oral presentation at the National conference on the Role of Biodiversity in Sustainable Agriculture, Jhansi (2010)
  o Students: For Best Oral Presentation Award in National Conference 2013, organized by the Dept. of Botany Arts, Science and Commerce Collage, Shahada M.S.

**Department of Biotechnology**

C. P. Upadhyay*:
• Visiting Scientist award from Indian National Science Academy (INSA), New Delhi 2012.

Dr. Anamika Bhargava*:
• Honorary Research Associateship at Imperial College London (2013)
• Poster Merit Award, Cardiac Arrhythmia Mechanisms, Gordon Research Mechanisms, Ventura, California (2013),
• Lewis MacDonald Award, Heart and Stroke Foundation of BC and Yukon, Canada (2009)

Dr. R. Anupam*:
• 2nd place poster award: Ohio University Research and Creativity Fair (Chemistry and Biochemistry) 2005.
• 1st place poster award: Ohio University Research and Creativity Fair (Chemistry and Biochemistry) 2006.
• 2nd place poster award: OSUCCC Annual Scientific meeting 2010.

**Department of Chemistry**

Dr. KB. Joshi*:
• Alexander von Humboldt (AvH) Research Fellowship; Eli Lilly Asia Outstanding Thesis Award (Second prize)

Dr. Pushpal Ghosh*:
• Hot Article” in the J. Mater. Chem. 2011, 21, 8640;
• Invention entitled as “Polymerizable Ionic Liquids for Photonic Applications” won the award of one of the best three inventions at Ruhr University Bochum, Germany in 2012;
• Awarded SRF(Extended) 2009 by CSIR; Best Poster Prize in the ‘National Symposium for Materials Research Scholars’ (MR 08) conducted by IIT Bombay

Prof. Farid Khan:
• Commonwealth Academic Staff Award Fellowship of United Kingdom; Awarded K. A. Thakur Award (2008) for best paper published in Inst. of Chemists (Kolkata);

Prof. S.K. Srivastava:
• Awarded National and Visiting Associateship of UGC, New Delhi; Received Appreciation awards for research contributions in the field of heterocyclic chemistry;

Prof. S.D. Srivastava:
• Received Appreciation awards for research contributions in the field of the heterocyclic chemistry;

Dr. Ritu Yadav:
• Awarded DST WOS-A Scientist

Dr. Kalpataru Das*:
• Awarded Global Centers of Excellence Post-Doctoral Research Fellowship, *Synfacts* 2009, 11, 1253; & *Synfacts*, 2007, 06, 585;

Dr. M. Pandey*:
• Awarded “Young Scientist Award” in Chemical Sciences from International Academy of Physical Sciences, Allahabad.

**Department of Business Management**

Ms. Babita Yadav*
• Received Best Business Academic of the Year Award-2009 in the 62nd All India Commerce Conference Association.

Note: * Faculties joined the University as fresh recruitment in 2012.
Details of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. University participates in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access.

The University does participate in the shodhganga and deposit the thesis with ‘Inflibnet’ after the award of the degree. Candidates submitting the thesis have to submit a soft copy of the summary of the thesis contents. After the award of degree, the thesis is kept in the main library. The summary is loaded over “Shodhganga / Shodhgangotri” depository after the award of the thesis.

**List of the successful M.Phil, Ph.D. and D.Litt candidates.**

<table>
<thead>
<tr>
<th>School</th>
<th>Department</th>
<th>M.Phil</th>
<th>D.Lit</th>
<th>Jan, 2008 Ph.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Arts and Information Sciences</td>
<td>Journalism</td>
<td></td>
<td></td>
<td>01</td>
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<tr>
<td></td>
<td>Lib &amp; Inf. Sc.</td>
<td>14</td>
<td></td>
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<tr>
<td></td>
<td>Performing and Fine Arts</td>
<td>00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Humanities and Social Sciences</td>
<td>Music</td>
<td>03</td>
<td></td>
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<tr>
<td></td>
<td>Ancient Indian History</td>
<td>26</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Economics</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td>12</td>
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<tr>
<td></td>
<td>Psychology</td>
<td>Nil</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Political Sc. And Pub. Admn.</td>
<td>05</td>
<td>31</td>
<td></td>
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<td></td>
<td>Sociology</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Languages</td>
<td>English and European language</td>
<td>27</td>
<td>28</td>
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<tr>
<td></td>
<td>Hindi</td>
<td>Nil</td>
<td>04</td>
<td>60</td>
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<tr>
<td></td>
<td>Linguistics</td>
<td>01</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Sanskrit</td>
<td>01</td>
<td>14</td>
<td></td>
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<tr>
<td></td>
<td>Urdu and Persian</td>
<td>03</td>
<td></td>
<td></td>
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<tr>
<td>School of Applied Sciences</td>
<td>Anthropology</td>
<td>15</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Criminology and Forensic Science</td>
<td>15</td>
<td></td>
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<tr>
<td></td>
<td>Geography</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Engineering and Technology</td>
<td>Applied Geology</td>
<td>16</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Pharmacy</td>
<td>91</td>
<td></td>
<td></td>
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<tr>
<td>School of Biological Sciences</td>
<td>Botany</td>
<td>62</td>
<td></td>
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<tr>
<td></td>
<td>Biotechnology</td>
<td>00</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Applied Microbiology</td>
<td>08</td>
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<td></td>
<td>Zoology</td>
<td>48</td>
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<td></td>
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<tr>
<td>School of Chemical Technology</td>
<td>Chemistry, Industrial / Pharmaceutical</td>
<td>80</td>
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<td></td>
<td>Chemistry</td>
<td>80</td>
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<tr>
<td>School of Computers and mathematical Sciences</td>
<td>Computer Science and Appl.</td>
<td>13</td>
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<td></td>
<td>Physics and</td>
<td>28</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics and Statistics</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Commerce and Management</td>
<td>Commerce</td>
<td>08</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Business Management</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Law</td>
<td>Law</td>
<td>02</td>
<td></td>
<td></td>
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<tr>
<td>School of Educational Studies</td>
<td>Education</td>
<td>24</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Education</td>
<td>00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yogic Science</td>
<td>08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adult CE &amp; Extension</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>32</td>
<td>05</td>
<td>805</td>
</tr>
</tbody>
</table>
Official policy of the University to check malpractices and plagiarism in research. Number of plagiarism cases reported and action taken.

The code of ethics in research is constantly monitored through rigorous seminars and presentations made by scholars in the departments and monitored by DPGC.

- The University library has procured two anti-plagiarism softwares “iThenticate” and “turnitin”. Two hands on workshops for the research scholars and the faculty members have been conducted by IQAC in collaboration with the University library. Eevery faculty has been allotted with a login Id and password to submit and examine their articles for the similarity coefficient for their research contents.

- The University has so far not framed any official policy or certification to check malpractices and plagiarism in research at the time of submission of the thesis, however, the faculties are regularly using the facility for their publications.

- Presently, the candidates submitting M.Phil and Ph.D. theses have to make the following submission, “that no part of the thesis is published in part of full from this or any of the universities in India” while submitting their theses. Similarly, at the time of the award of the thesis, the candidates work is uploaded on the Shodhganga – an Inflibnet portal.

  So far, no cases of malpractices and plagiarism in research have been reported.

University promote interdisciplinary research.

Interdepartmental/interdisciplinary research projects have been undertaken.

University does promote inter-disciplinary research.

The University has adopted to assign supervisors at school level to promote inter disciplinary researches. However, the idea is in its formative stage.

University has just entered into its fourth Ph.D. entrance examination in year 2014, where the total strength of working research scholars is ~100 (amongst total 195 inducted through Ph.D. entrance examination.). Induction of new teachers and starting of Ph.D. by course work in a few more departments may bring in such collaborative researches in future.

A few examples of collaborative researches in the past are:

the Departments of Pharmacy and Chemistry, the Departments of Chemistry and Criminology and Forensic Sciences, the Departments of Computer Science and Mathematics and Statistics, the Departments of Botany and Pharmacy and Chemistry, the Departments of Microbiology and Zoology and Biotechnology, the Departments of Commerce and Management, the Departments of Hindi and Linguistics, the Departments of Law and Political Science. (Based on the titles of the thesis)

University instituted research awards.

The University has recently instituted a research awards. However, at the time of National Science Day, eminent researchers present their work. The research students from different departments present their papers and posters that are graded and awarded by a local committee. The University also utilizes this opportunity to felicitate eminent researchers for their highest citation or publications in journals of high impact factors or good work of research.
Consultancy

Official policy of the University for structured consultancy. List a few important consultancies undertaken by the University during the last four years.

University frames its Research Consultancy Policy in 2011, duly approved by Academic Programme committee and the academic council and MHRD.

Areas of consultancy Services

Department of Psychology

- Free guidance and counseling services are provided if required.
- Guidance and counseling services are also extended to the University staff and their wards from time to time, whenever there is a need for counseling.

Department of Sociology

The teachers of the Department are engaged in providing consultancy to different institutions and organizations in various field.

- To ‘Samanya Nirdhan Warg Kalyan Ayog’, (M.P)
- The Department provides ideas conceptualizing the issues in order formulate various policies and programmes for poverty reduction among the population from General categories.
- To the Institution of Scheduled Tribes Research and Development, Govt. (M.P)
- Provides ideas and conceptualizing the issues in order formulate various policies and programmes for the welfare of Scheduled Tribes in Madhya Pradesh.
- Consultantancy to the Police Department, Sagar (IPS, DSP and SI).

Department of Applied Geology

- Consultant to Govt. of M.P. & ONGC and CGWB and private companies and enterpreneurs for the Petroleum gas, Ground water, Ornamental stones and Environmental studies.

Department of Adult and Continuous Education & Extension Services

- Student, youth and Community counseling on Non-remuneration basis.

Industry cell and its scope and range of activities?

No, University does not have any University-Industry cell. A central placement cell at the University is yet to take shape. However, there are operational placement cells in the Departments of Management, Pharmacy, Chemistry, Microbiology and Computer Science. These cells have a good track record of placements in their respective areas. University also utilizes the UGC job portal launched by UGC. Similarly, the services of University website are also utilized by the departments.

Mode of publicizing the expertise of the University for Consultancy Services.

Mode of publicizing the expertise is through the university website, the international Reference books like Europa, World of Learning, Association of Indian University News (AIU) and departmental profiles. All the departments have also uploaded their departmental profiles on the University website. Besides this, faculty profiles and their research areas / expertise of faculties in research, have also been uploaded on the University website from where a consultant may contact the department / person concerned.

University utilize the expertise of its faculty with regard to consultancy services.

The Department of Adult and Continuous Education and extension services, Dr. Harisingh Gour University, Sagar has always tried to Reach the Unreached in a learner friendly manner to a great extent adopting extension mode since 1984 onwards. The department has offered
M.A. in Rural Development & Doctoral Research Programme in Extension Education with focus to the needs of rural and disadvantageous sects of the society and rural poor. It tries to enable the student and non-student youth with skills in rural entrepreneurship, rural management and social work, agriculture and farming etc. through its classroom teaching and interactive learning and field based practicals is inbuilt in syllabi. With the mandate of UGC guidelines and in the light of national imperatives, this department tried its best to help the grassroots in a mission spirit as under-

- Adult Literacy Programme
- Capacities Building of functionaries
- Population Education Club
- Planning Forum
- Continuing Education
- Extension Lectures and Activities
- Capacity Enhancement Activities

In this context, the department has initiated a number of activities as follows:

<table>
<thead>
<tr>
<th>Initiatives</th>
<th>Thrust area</th>
<th>Beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training Programme</td>
<td>PRIs, Older Persons, Rural Youth, Rural Entrepreneurship, Farm Management, Empowerment of SC/ST</td>
<td>1405</td>
</tr>
<tr>
<td>Capacity Enhancement</td>
<td>Environment, Health, Socio-Culture, Literacy, Values &amp; Morals, Gender Sensitization</td>
<td>1116</td>
</tr>
<tr>
<td>Activity Awareness</td>
<td>Total Literacy, Total Sanitation, SHGs</td>
<td>421</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>Bio Farming, Soil Conservation Use of Solar Energy, Watershed management, SSA</td>
<td>Catchments area</td>
</tr>
<tr>
<td>Extension Lectures and Activities</td>
<td>Consumer protection, Human Rights RCH, Gender Sensitization, Education Rural Entrepreneurship</td>
<td>Neo-literates School &amp; College students, Rural youth, Teachers, Social workers Practitioners</td>
</tr>
<tr>
<td>Academic Activity</td>
<td>Primer formation, Manuals, Modules, Status Reports</td>
<td>Neo-literates, School &amp; College students, Rural youth, Teachers, Social workers Practitioners</td>
</tr>
<tr>
<td>Research Activity</td>
<td>Rural development, Community Development, Women Empowerment Rural Education, Adult Education Extension work</td>
<td>315 Research students/scholars</td>
</tr>
<tr>
<td>People Science Movement</td>
<td>Awareness, Scientific Temperament</td>
<td>Rural Youth School Children</td>
</tr>
</tbody>
</table>

- Free guidance and counseling services are provided to those who are needy on the last Saturday of the each month
- Guidance and counseling services are also extended to the University staff and their wards from time to time or whenever needed
Department of Sociology
The teachers of the Department are engaged in providing consultancy to the different institutions and organizations in various field.

- To ‘Samanya Nirdhan Warg Kalyan Ayog’, (M.P) Provides ideas and conceptualizing the issues in order formulate various policies and programmes for poverty reduction among the population from General categories.
- To Institution of Scheduled Tribes Research and Development, Govt. (M.P) Provides ideas and conceptualizing the issues in order formulate various policies and programmes for the welfare of Scheduled Tribes in MP.
- Consultantancy, Police Department, Sagar (IPS, DSP and SI), Jawahar Lal Nehru Police Academy, Govt. of M.P.

Department of Criminology and Forensic Science
- Consultantancy, Police Department, Sagar (IPS, DSP and SI) Jawahar Lal Nehru Police Academy, Govt. of M.P.

List the broad areas of consultancy services provided by the University and the revenue generated during the last four years.
Only Consultancy and Extension Services, but no Revenue generated.

Areas of consultancy services

Department of Psychology
- Free guidance and counseling services are provided to those who are needy once, every month.
- Guidance and counseling services are also extended to the University staff and their wards from time to time or whenever needed

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Department of Applied Geology
- Consultant to Govt. of M.P. & ONGC and CGWB for the Petroleum gas, Ground water and Environmental studies.

Department of Adult and Continuous Education & Extension Services
- Student, youth and Community counseling on Non-remuneration basis
Extension Activities and Institutional Social Responsibility (ISR)

**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.

The sensitization about social and Institutional Responsibilities in teachers and students is done by conducting joint activities on campus. For this purpose, the University has appointed a Cultural Coordinator associated with the department of Performing and Fine Art and the Department of Music. The activities include:

- Blood donation camps
- Oaths on *Gandhi Jayanti* against indulgence in alcohol and drugs,
- Oaths against indulgence in corruption and mal practices
- Health camps by University hospital
- Yoga camps (in campus and adjoining areas of the city)
- Blood donation camp (NCC cadets)
- Adult Literacy Camps
- Services in “*Sarva Shikhsa Abhiya*” Department of Education,
- Conservation of cultural heritage
- Art and Cultural film show • “*Kavya Paath*”
- Marking of Teachers’ Day, "*Guru Poornima*" and "*Saraswati Pooja*"
- Marking all National and International days and display of related messages
- Collecting and raising funds for National calamities
- marking the founders’ birth day by celebrations and social and cultural activities
- Marking the Founder’s death anniversary by Bhajan
- Preserving and paying homage to the founder and first chancellor at their “*Samadhi Monuments*”
- Marking national science day every year
- Marking the Central University foundation day
- Lectures and deliberations by dignitaries for career counseling, promoting army/air force services
- Preserving and performing the local heritage and culture
- Collective activities at Boys’ and Girls’ hostel on Hostel days
- Football and cricket matches between different faculty groups and students of different departments.

**University promote University-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development.**

The activities conducted for the neighbourhood following may be cited:

a) The Psychological counselling center by the University in city premises
b) The legal aid camps by department of Law
c) More than an extension arm of the University, the Department of Youth and Cultural Activities has been doing exemplary work in the area of generating awareness of Social Responsibilities. The participants in the activities of the Department represent all the streams of all Schools of the University. These participants have created and given engaging dramatic performances to sensitize people about the grave and crucial issues of particular regional and national significance. In the recent past, the students and the faculty of the Department have written, scripted and performed plays on the themes of ‘Female Feticide’, ‘AIDS’, ‘Unemployment’, ‘Child Labour’, local ‘Brain Drain’, ‘Child Marriages’, ‘Vaccination’ drives, and caste barriers in the region. Almost all of these issues are nationally relevant, but they have a particularly pointed relevance in the context of the neighborhood of the University. For these performances, the Department has collaborated with a local theatre group, ‘Anveshan’, in order to better promote the
messages contained in the presentations of the Department. In order to better perform this duty of social responsibility, the University has created a post of Cultural Coordinator.

d) The activities undertaken by the students of the Department (who, as stated earlier, come from all streams of the Schools at the University) have earned huge reception and have brought huge recognition to the University. The efforts of the Department have brought to the campus such great names in the world of art and culture as Shyam Bengal and BV Karanth in the past. Among some contemporaries visiting the campus for workshops recently organized by the Department are-- Govind Namdeo (a theatre and film personality), Devendra Raj (NSD), Prof. Tripurari (NSD), Sangeet Srivastava (NSD), Pankaj Dubey (Freelancer at NSD), Asok Bhagat (NSD), and Ishtiak Khan (actor and an NSD pass out). As an aside, it can be mentioned that Govind Namdeo, Mukesh Tiwari and Ashutosh Rana, three good bollywood actors, have been the alumni of the University.

e) Diversifying their activities, the Department has done exemplary work in the preservation and popularization of some beautiful folk art forms. The Department has incorporated local folk dances and nomadic music forms like Badhai, Baredi, Dhimaria and Naurata in their curricular and co-curricular programmes. Also, the Department has made efforts to keep the local martial art (Akhada) alive by giving performances involving it.

f) The professors of the University are frequent invitees to the programmes of Radio Talks of Akashvaani Sagar for talks and discussion on issues of local significance.

g) The teachers and the officials of the University are regular advisory board members on the committees of local institutions devoted to Social Service, and also on the boards of educational institutions in the region.

h) The University runs a formal extension centre in the old city, which works as a public library and as a centre for delegacy students of the University.

University promotes the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes.

The University has reputed Men’s and Women’s NCC wings, the cadets of which are almost regularly selected for Republic Day Parade every year.

The contribution of the University in this regard has been recognized by the NCC Headquarters through the award of honorary Commission of Colonel to the Vice Chancellor.

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 Departments of Sociology, Political Science, Anthropology, and Commerce have undertaken several studies in these areas. Many of the theses at these Departments are the results of surveys and analyses of the conditions of the weaker sections of the society. Some Researcher's have done admirable research and surveys by scanning and analyzing their occupations and professions. The findings of these research works have contributed in the creation of awareness about the extent and nature of the disempowerment of the vulnerable sections in the society. These theses have a potential to suggest ways and directions to several governmental and non-governmental agencies working to help and empower these sections.

University has a mechanism to track the students’ involvement in various social movements / activities, which promote citizenship roles.

The University does not formally track students’ involvement in various social activities. However, the Director of Students’ Affairs keeps a record of the students activities and their involvement in cultural, social and sports activities such as participation in Republic day parades, NSS activities, NCC : Training, Integration, TRG, Leadership, Tracking Expedition
, SSB Training Capsule etc., student moot court competitions, State and National Sports activities, debates, Students’ Delegacy Center, etc.

The Youth Welfare and Culture Segment of the University has produced good number of thematic dramas on social issues, and have earned immense appreciation all over India. The thematic dramas are based on: Anti-Aids, Anti-Davery, Female child, etc.

**Objectives and expected outcomes of the extension activities organized by the University for skill development of the students.**

The worth and value of theoretical knowledge earned in classes and laboratories needs real space to put it to use. The extension activities detailed above are all open for participation of the students of all schools and departments of the University. Thus, every student of the University has a channel to collaborate with, to learn about, and to contribute to the causes of the extension activities. Thereby, the students also learn the reasons and ways to modify their classroom knowledge.

**University’s involvement in the community in its outreach activities and contribute to community development.**

The department of Sociology and department of Adult education are involved in the community development programmes. Some of the ongoing programmes are:

- Adult Literacy Programme
- Capacities Building of functionaries
- Population Education Club
- Planning Forum
- Continuing Education
- Extension Lectures and Activities
- Capacity Enhancement Activities

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

A). Some of the activities undertaken by the Department of Cultural Affairs (as listed earlier) have been nationally and internationally awarded. The troupes of our students at Youth Festivals in India and abroad have brought back prizes and awards for their presentation of the local cultural items. Additionally, the Moot Court participants of the University have won several national prizes and recognitions.

B). The ‘Saksham’ project of the University provides special counseling concerning Tuberculosis and AIDS. The project is internationally recognized, and is being funded by a Geneva based international organization.
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.

A visible impact and the visibility, identity and diversity of activities on campus may be visualized from the University faculty upgradation and conduct of few collaborative activities on campus:

- Visitors for Honkong and Thailand visited the Yogic Science Department and had celebrations
- Team of professors visited from Nigeria to develop and explore academic contacts as a part of their MoU
- One of the faculties from Criminology and Forensic Science have visited Nigeria to develop their analytical Laboratory,
- Simultaneously one of the faculty from department of Physics has visited Japan on his collaborative work related with solid state batteries.
- One of the faculty from department of Biotechnology has visited Korea for the collaborative work
- The Bharat Omman Refinery Limited (BORL and Raymonds, India) have extended all technical help.
- Department of Psychology has been funded for the “Psychological Counseling - Saksham Project” funded by GFATM (Global Fund to Fight AIDS, Tuberculosis and Malaria), Geneva Round 7, HIV/AIDS Counseling Programme (2009-2015), India aims at strengthening the human and institutional capacities of the National Health System to enable accelerated growth of the National AIDS control Programme.
- University has organised several INSA UGC/DST programmes on campus.
- Collaboration of Department of Applied Geology with M/S Pebble creek Inc canada for Core samples for the students and research scholars have benifited the teaching in research in department.
- Several Visiting professors from State and Central Universities have visited and had deliberations with the University faculties.

**Mention specific examples of how these linkages promote**

- **Curriculum development :**
  Teacher under international exchange programmes viz., INSA, UGC, DST in department of criminology and Forensic science, Zoology, Physics, were exposed to curriculum prevailing in International Institutes and subsequently in development and guiding curriculum development in our University. Such revision of curricula has influenced the syllabi of concerned courses and also helped in upgrading the syllabi of colleges. Moreover this collaboration paved way for signing MoUs with other International universities and cooperating in collaborative works viz., establishment of Forensic Analytical Laboratory at Nigeria.

- **Internship:** NIL
  Note : A part of curriculum in MBA, Law, B.Lib.I.Sc. and Applied Geology, Education have training at the work place such as Conduct of Teaching in Schools, Maintaining Court Diary (in Law), Geological Tour to mines, visit and working under officials of GSI, ONGC, AMD etc., working in reputed Libraries in India, working and staying with tribes (in Anthroplogy), working with village community (in Adult and Continuous Education), working with the corporate world (in MBA), are certain examples that may be quoted under the prescribed B.Ed. head.

Similarly the internship performed by the trainee Doctors in Medical Courses being conducted in affiliated Institutes may also be quoted.
• **On-the-job training**
  The teachers have been sponsored by the vendors for end on training / skill development for the smooth running of newly installed instruments in the University.
  The students of Department of Psychology are involved Neuro-psychological Counselling at the B.S. Jain Counselling Centre as an extension activity of the University.

• **Faculty exchange and development**
  Teachers under international exchange programmes viz., INSA, UGC, DST in department of Criminology and Forensic Science, Zoology, Physics, were exposed to curriculum prevailing in International Institutes and subsequently in development and guiding curriculum development in our University. Such revision of curricula has influenced the syllabi of concerned courses and also helped in upgrading the syllabi of colleges. Moreover this collaboration paved way for signing MoUs with other International Universities and cooperating in collaborative works viz., establishment of Forensic Analytical Laboratory at Nigeria.

• **Research & Publication**
  The linkages have extended further support to the faculties in their research projects and further researches. Department of Chemistry has opened one advanced research center for electro-analytical chemistry on bio-medical processes (SAP project).
  Other departments benefited with the linkages and collaborative are:
  (i) Department of Biotechnology have produced good quality papers on account of their contacts with South Korean MoU and have also conducted one International Workshop-cum-Conference on emerging opportunities in life sciences
  (ii) Department of Criminology and Forensic Science
  (iii) Department of Zoology
  (iv) Department of Physics
  (v) Department of Pharmaceutical sciences
  (vi) Department of Ancient Indian History, Culture and Archaeology
  (vii) Department of English

• **Consultancy** : NIL
• **Extension** : NIL
• **Student placement** : cf : Criteria 5.1.2 and 7.3.1
• **Any other (please specify)** : NIL

**University signed any MoUs with institutions of national / international importance/other universities/industries/corporate houses etc..**

The University, in its pursuits to extend beyond the boundaries of the Nation, has developed three MoUs for academic and exchange of technological expertise.

The University is in the processes of developing facilities and provisions for foreign students. It has recently signed three overseas MoUs
- with Federal Polytechnic Institute, Oko, Anambra State, Nigeria,
- with ‘Foundation Institute Mar d’investigacions Mediums’, Barcelona, Spain, and
- Institute of Biotechnology, South Korea, for exchange of Academic and technological expertise.

This may serve as a door-way for the foreign students to seek admission in this University. Regarding Nigeria, the concerned University has sent a letter on intention for direct entry of their students in different courses. Procedures for such admissions are being evolved and are under process.
The Department of English and Other European Languages has a ‘Canadian Studies Center’, partly sponsored by the Shastri Indo Canadian Studies Institute at Delhi. The Shastri Institute is funded by, and partners closely with, government bodies in India and Canada. The Institute aims to achieve gender equality and reduce poverty by focusing programming on sustainable development and other United Nations agencies.

University-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities.

There is no laboratory on campus resulting from University-Industry collaboration. However, the Department of Anthropology has been recognized as the Center for tribal research by Ministry on tribal studies. The Population research Studies Center in Department of Geography has been funded with for a for demographic studies on health issues of the sagar and catchment tribal areas around sagar. Similarly the department of Psychology has been funded for the “Psychological Counseling - Saksham Project” funded by GFATM (Global Fund to Fight AIDS, Tuberculosis and Malaria), Geneva Round 7, HIV/AIDS Counseling Programme (2009-2015), India aims at strengthening the human and institutional capacities of the National Health System to enable accelerated growth of the National AIDS control Programme. It is a Unique Partnership of 38 academic institutions of higher learning, spread across 25 states of India. The Tata Institute of Social Sciences (TISS), as the Principle Recipient (PR), provides the strategic leadership and direction to the Programme. Saksham is committed to respond to the needs of the national programme with regards to HIV/AIDS counseling through: enhancement of quality of trainers, improvement of the quality of training infrastructure and training systems, and support under the supervision of training institutions and counselors. Similarly, the botanical garden cared and created by department of Botany has been certified by BCGI for rare plant species.