

**ZOOLOGY DEPARTMENT-QUANTITATIVE MATRIX**  
**IQAC PROFILE -2016-2021**

**Criterion III – Research, Innovations and Extension**

|  | <b>3.2 PROMOTION OF RESEARCH AND FACILITIES</b>  | <b>20</b>                   |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|--|--|-----------------------------|-----------------------------|--------------------------|--------------------------|-------------------|----|--------------------------|------------------|--------------------------|----------------|----|-----------------------|------------------|--------------------------|------------------|------------------|----------------------------|------------------|--------------------------|-----------------------|------------------|--------------------------|-------------------|--------------------------|-----------------------|------------------|-----------------|-----------------|----|-------------------------|-------------|--------------|------------------|----|-------------------|------------------|---------------|-------------------|--|
| 3.1.2  | The institution provides seed money to its teachers for research (average per year INR in Lakhs)   |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">✚</td> <td><b>1. Dr. R. Srivastava</b></td> <td><b>2014-2016</b></td> <td><b>UGC-StartUp Grant</b></td> <td><b>6 Lakhs</b></td> </tr> <tr> <td style="text-align: center;">✚</td> <td><b>2. Dr. S.K.Mishra</b></td> <td><b>2014-2016</b></td> <td><b>UGC-StartUp Grant</b></td> <td><b>6 Lakhs</b></td> </tr> <tr> <td style="text-align: center;">✚</td> <td><b>3. Dr. R Saini</b></td> <td><b>2014-2016</b></td> <td><b>UGC-StartUp Grant</b></td> <td><b>6 Lakhs</b></td> </tr> <tr> <td style="text-align: center;">✚</td> <td><b>4. Dr RK Srivastava</b></td> <td><b>2014-2016</b></td> <td><b>UGC-StartUp Grant</b></td> <td><b>6 Lakhs</b></td> </tr> <tr> <td style="text-align: center;">✚</td> <td><b>5. Dr. R.K. Koiri</b></td> <td><b>2014-2016</b></td> <td><b>UGC-StartUp Grant</b></td> <td><b>6 Lakhs</b></td> </tr> </table>   | ✚                           | <b>1. Dr. R. Srivastava</b> | <b>2014-2016</b>         | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b>    | ✚  | <b>2. Dr. S.K.Mishra</b> | <b>2014-2016</b> | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b> | ✚  | <b>3. Dr. R Saini</b> | <b>2014-2016</b> | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b>   | ✚                | <b>4. Dr RK Srivastava</b> | <b>2014-2016</b> | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b>        | ✚                | <b>5. Dr. R.K. Koiri</b> | <b>2014-2016</b>  | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b>        |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | ✚  | <b>1. Dr. R. Srivastava</b> | <b>2014-2016</b>            | <b>UGC-StartUp Grant</b> | <b>6 Lakhs</b>           |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| ✚  | <b>2. Dr. S.K.Mishra</b>   | <b>2014-2016</b>            | <b>UGC-StartUp Grant</b>    | <b>6 Lakhs</b>           |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| ✚  | <b>3. Dr. R Saini</b>  | <b>2014-2016</b>            | <b>UGC-StartUp Grant</b>    | <b>6 Lakhs</b>           |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| ✚  | <b>4. Dr RK Srivastava</b>   | <b>2014-2016</b>            | <b>UGC-StartUp Grant</b>    | <b>6 Lakhs</b>           |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| ✚  | <b>5. Dr. R.K. Koiri</b>   | <b>2014-2016</b>            | <b>UGC-StartUp Grant</b>    | <b>6 Lakhs</b>           |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| <b>TOTAL: 30 LAKH RS. AVERAGE = 06 LAKH/YEAR</b>   |  |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| 3.1.3  | Percentage of teachers receiving national/ international fellowship/ <i>financial support</i> by various agencies for advanced studies/ <i>research</i> during the last five years   | <b>20</b>                   |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | ➤ <b>Average 50%</b>   |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
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|  | Sn.  | Faculty                     | Agencies                    | Year                     | Financial support        |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | 1.   | <b>Prof SK Jain</b>         | <b>2014-17</b>              | <b>UGC BSR</b>           | <b>7 Lakhs</b>           |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | 2.   | <b>Prof. S. Yadav</b>       | <b>2013-2016</b>            | <b>DBT</b>               | <b>128 Lakhs</b>         |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  |  |                             | <b>2016-2020</b>            | <b>DBT</b>               | <b>22 Lakhs</b>          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  |  | <b>Dr. R.K. Koiri</b>       | <b>2014-2017</b>            | <b>DST-SERB</b>          | <b>23.5 Lakhs</b>        |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
|  | <b>Dr. R.K. Koiri</b>  | <b>2019-2022</b>            | <b>DST-SERB</b>             | <b>47 lakhs</b>          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| 3.   | <b>Dr. S. K. Mishra</b>  | <b>2018</b>                 | <b>MPCST</b>                | <b>8.2 Lakhs</b>         |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| 4.   | <b>Dr. D. Jat</b>  | <b>2015-2020</b>            | <b>MPCOST</b>               | <b>3.88 Lakhs</b>        |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| <b>TOTAL: 239.58 LAKH TOTAL</b>  |  |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| 3.1.4  | Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years   |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| <b>30 students</b>   |  |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| 3.1.5  | <b>Institution has the following facilities to support research</b>  |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |
| <ol style="list-style-type: none"> <li><b>1. Confocal microscope (under SIC)</b></li> <li><b>2. Atomic force absorption Spectrophotometer</b></li> <li><b>3. High performance liquid chromatography (HPLC) system</b></li> <li><b>4. Transilluminators</b></li> <li><b>5. Cell culture laminar hoods (Biosafety Cabinets)</b></li> </ol> |  |                             |                             |                          |                          |                   |    |                          |                  |                          |                |    |                       |                  |                          |                  |                  |                            |                  |                          |                       |                  |                          |                   |                          |                       |                  |                 |                 |    |                         |             |              |                  |    |                   |                  |               |                   |  |

|       |   |  |
|-------|---|--|
|       | <ol style="list-style-type: none"> <li>6. Gel-documentation system</li> <li>7. Cell culture CO2 Incubators</li> <li>8. ELISA plate reader</li> <li>9. Laminar hood for microbial culture</li> <li>10. Tissue homogenizer</li> <li>11. Microbial culture BOD Incubators</li> <li>12. Lyophilization facility</li> <li>13. Centrifuges (speed: low, medium, high)</li> <li>14. Sonication facility</li> <li>15. Protein gel electrophoresis apparatus</li> <li>16. Thermal cyclers</li> <li>17. Agarose gel electrophoresis apparatus</li> <li>18. Thermal Ovens and Microwave ovens</li> <li>19. Spectrophotometers</li> <li>20. Autoclaves</li> <li>21. Nano-drop spectrophotometer</li> <li>22. Water baths</li> <li>23. Water distillation systems</li> <li>24. Histology facility and microtomy</li> </ol> |  |
| 3.1.6 | <p>Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other similar recognitions by national and international agencies (Data for the latest completed academic year)</p> <p>➤ <b>DST-FIST (Zoology 2019-24)- Rs.125 Lakhs</b></p>   |  |
| 3.2.1 | <p>Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the Institution during the last five years (INR in Lakhs)</p>  |  |
| 3.2.2 | <p>Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs)</p> <p>✚ <b>Rs 239.58 Lakhs+ 125 Lakhs (DST-FIST) = 239.58 lakh</b></p>  |  |
| 3.2.3 | <p>Number of research projects per teacher funded by government and non-government agencies during the last five years</p> <p>➤ <b>05 TEACHERS</b></p>  |  |

|  |  |            |
|--|--|------------|
| 3.3.2                                      | <p>Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years</p> <ul style="list-style-type: none"> <li>✚ 05 seminars,</li> <li>✚ 04 GIAN programmes,</li> <li>✚ 02 workshops,</li> <li>✚ 01 webinar</li> </ul>   |            |
| ✚ Average one programme per year           |  |            |
| <b>3.3 INNOVATION ECOSYSTEM (FDP ETC.)</b> |  | <b>30</b>  |
| 3.4.1                                      | <p>The institution ensures implementation of its stated Code of Ethics for research</p> <p>➤ Yes</p>   | <b>05</b>  |
| 3.4.2                                      | <p>The institution provides incentives to teachers who receive state, national and international recognitions/awards</p> <p><b>YES</b></p>   | <b>05</b>  |
| 3.4.4                                      | <p>Number of PhD's awarded per teacher during the last five years</p> <ul style="list-style-type: none"> <li>✚ 2017=03 PhD awarded by 2 faculty=1.5</li> <li>✚ 2018=04 PhD awarded by 4faculty=1/teacher</li> <li>✚ 2019=02 PhD awarded by 2 faculty=1/teacher</li> <li>✚ 2020=05 PhD awarded by 5 faculty=1/teacher</li> </ul> <p><b>TOTAL = 14 Ph.D.</b></p>   | <b>100</b> |
| 3.4.5                                      | <p>Number of research papers per teacher in the Journals notified on UGC website during the last five years</p> <ul style="list-style-type: none"> <li>✚ 2015-: 31papers/16 teachers- 2 per teacher</li> <li>✚ 2016: 27 papers/13 teachers- 2.1 per teacher</li> <li>✚ 2017: 16 papers /11 teachers- 1.4 per teacher</li> <li>✚ 2018: 25 papers/ 10 teachers- 2.5 per teacher</li> <li>✚ 2019: 14 papers/10 teachers- 1.4 per teacher</li> <li>✚ 2020: 20 papers/09 teacher- 2.2 per teacher</li> </ul> <p><b>TOTAL: AVERAGE 22 PER YEAR</b></p> |            |

|       |  |  |
|-------|--|--|
| 3.4.6 | <p>Number of books and chapters in edited volumes published per teacher during the last five years</p> <ul style="list-style-type: none"> <li>✚ 2015= 01 book +01 chapter</li> <li>✚ 2016=06 books</li> <li>✚ 2017=06 chapters</li> <li>✚ 2018=02 chapters</li> <li>✚ 2019=01 chapter</li> <li>✚ 2020=02 books+03 chapters</li> </ul> <p><b>AVERAGE =3.6 BOOK/BOOK CHAPTER PER YEAR</b></p>  |  |
| 3.4.8 | <p>Bibliometrics of the publications during the last five years based on average Citation Index in Scopus/ Web of Science/PubMed</p> <p><b>✚ 1756 IRINS, 2593 GOOGLE CITATIONS COUNT</b></p>   |  |
| 3.4.9 | <p>Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-Index of the University</p> <p><b>✚ 26 IRINS, 55 GOOGLE CITATIONS COUNT</b></p>  |  |
| 3.5.1 | <p>Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy</p> <p><b>YES</b></p>  |  |
| 3.6.2 | <p>Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the last five years</p> <ul style="list-style-type: none"> <li>✚ 2015: 01 by faculty, 02 by student</li> <li>✚ 2016: 01 by faculty</li> <li>✚ 2017: 03 by faculty, 04 by students</li> <li>✚ 2018: 01 by faculty</li> <li>✚ 2019: 02 by faculty</li> </ul> <p><b>✚ TOTAL= 14 AWARDS</b></p> |  |
| 3.6.3 | <p>Number of extension and outreach programmes conducted by the institution including those through NSS/NCC/Red cross/YRC etc. (including Government initiated programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs) during the last five years</p>   |  |

|       |  |           |
|-------|--|-----------|
|       | <b>✚ 05 PROGRAMMES (ONE PROGRAMME PER YEAR)</b>  | <b>40</b> |
| 3.6.4 | Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years<br><br><b>✚ 50 PERCENT</b>   |           |
| 3.7.1 | Number of collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty and students per year<br><br>➤ 04 GIAN programmes collaborating with foreign faculty<br><br>✚ 2020: Prof. Jelena Radulovic, Albert Einstein College of Medicine, Bronx, New York, USA (Collaborator – Prof. Janak Dulari Ahi).<br>✚ 2019: Dr Samuel W. James, University of IOWA, IOWA, USA (Collaborator – Prof. Shweta Yadav).<br>✚ 2018: Prof. Hyun Goo Woo, Ajou University School of medicine, Suwon, South Korea (Collaborator – Dr. Siddhartha Kumar Mishra)<br>✚ 2016: Prof. Seung Hyun Oh, Gachon University, South Korea (Collaborator – Dr. Siddhartha Kumar Mishra). | <b>20</b> |
| 3.7.2 | Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years<br><br><b>UNDER PROCESS</b>  |           |
|       | <b>TOTAL CREDIT: 180 CREDIT SCORED IN LAST FIVE YEAR IN CRITERION III</b>  |           |

| 3.1.6 Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data only for the latest completed academic year) (5)   |  |                            |                                   |            |               |                               |                 |  |
|--|--|----------------------------|-----------------------------------|------------|---------------|-------------------------------|-----------------|--|
| 3.2.1 Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the last five years (INR in Lakhs) (5) |  |                            |                                   |            |               |                               |                 |  |
| 3.2.3 Number of research projects per teacher funded by government and non-government agencies during the last five years (5)  |  |                            |                                   |            |               |                               |                 |  |
| Name of the Scheme/Project/  | Name of the Principal Investigator/ Co | Name of the Funding agency | Type (Government/ Non-Government) | Department | Year of Award | Funds provided (INR in lakhs) | Duration of the |  |

| Endowment s/ Chairs | Investigator (if applicable)                   |          |            |         |             |               | project  |
|---------------------|--|----------|------------|---------|-------------|---------------|----------|
| DST-FIST            | Prof. J.D. Ahi (PI)/ All faculty members Co-PI | DST-FIST | Government | Zoology | 2019        | 1,26,00,000/- | 05 years |
| Earthworm biology   | Prof. S. Yadav                                 | DBT      | Gov.       | zoology | 2016 - 2020 | 22 Lakhs      | 04 years |
| Cancer biology      | Dr. R.K. Koiri                                 | DST-SERB | Gov.       | zoology | 2014 - 2017 | 23.5 Lakhs    | 03 years |
| Cancer biology      | Dr. R.K. Koiri                                 | DST-SERB | Gov.       | zoology | 2019 - 2022 | 47 lakhs      | 03 years |
| cell biology        | Dr. S. K. Mishra                               | MPCST    | Gov.       | zoology | 2017 -18    | 8.2 Lakhs     | 01 year  |
| Neuroscience        | Dr. D. Jat                                     | MPCST    | Gov.       | zoology | 2015 - 2020 | 3.88 Lakhs    | 02 year  |

3.1.3 Percentage of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the last five years (3)

| Sl.No. | Name of the teacher awarded national/ international fellowship/financial support | Name of the award/fellowship | Year of the Award | Awarding Agency | Link to certificates  |
|--------|--|------------------------------|-------------------|-----------------|---|
| 1      | Dr. R.K. Koiri   | Research Grant               | 2014-2017         | DST-SERB        | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SERB-RKK1.PDF">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SERB-RKK1.PDF</a> |

|   |  |  |           |          |   |
|---|--|--|-----------|----------|---|
| 2 | Dr. R.K. Koiri                           | Research Grant   | 2019-2022 | DST-SERB | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SERB-RKK2.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SERB-RKK2.pdf</a>   |
| 3 | Dr. S. K. Mishra                         | Research Grant   | 2017-18   | MPCST    | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SIDDARTH-MISHRA-PROJECT-MPCST.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SIDDARTH-MISHRA-PROJECT-MPCST.pdf</a> |
| 4 | Prof. J. D. Ahi (PI) & all faculty Co-PI | Post Graduate Teaching & Research Facility Strengthening | 2018-2019 | DST-FIST | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/DST-FIST-GRANT-2019.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/DST-FIST-GRANT-2019.pdf</a>                     |

3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years (4)

| Sl.No | Name of the Research fellow | Year of enrolment | Duration of fellow ship | Type of the fellows hip | Grant ing agency | Qualifyi ng exam if any (NET, GATE, etc.) | LINK  |
|-------|-----------------------------|-------------------|-------------------------|-------------------------|------------------|---|---|
| 1     | Swati Jain                  | 2016-17           | 03 YEARS                | SRF                     | ICMR             | NA  | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SWATI-JAIN.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SWATI-JAIN.jpg</a>           |
| 2     | Chameli Bandhaw             | 2016-17           | 05 years                | RF                      | UGC              | NA  | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/CHAMELI-BANDHAW.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/CHAMELI-BANDHAW.jpg</a> |
| 3     | Nalini Tiwari               | 2016-17           | 05 years                | RF                      | UGC              | NA  | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NALINI-TIWARI.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NALINI-TIWARI.jpg</a>     |
| 4     | Azhar Rashid Lone           | 2016-17           | 05 years                | RF                      | UGC              | NA  | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AZHAR-RASHID.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AZHAR-RASHID.jpg</a>       |

|    |                    |         |          |     |      |              |   |
|----|--------------------|---------|----------|-----|------|--------------|---|
| 5  | Narendra Namdev    | 2017-18 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NARENDRA-NAMDEV.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NARENDRA-NAMDEV.jpg</a>       |
| 6  | Kiran Singh        | 2018-19 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/KIRAN-SINGH.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/KIRAN-SINGH.jpg</a>               |
| 7  | Zaved Ahmad        | 2018-19 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/ZAVED-AHMAD.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/ZAVED-AHMAD.jpg</a>               |
| 8  | Nidhi Gupta        | 2018-19 | 05 years | RF  | UGC  | GATE, SET-CG | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NIDHI-GUPTA-GATE.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NIDHI-GUPTA-GATE.pdf</a>     |
| 9  | Lekhan Lodhi       | 2019-20 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/LEKHAN-LODHI.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/LEKHAN-LODHI.jpg</a>             |
| 10 | Neelam             | 2019-20 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NEELAM.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/NEELAM.jpg</a>                         |
| 11 | Kainat Usmani      | 2019-20 | 05 years | SRF | ICMR | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/KAINAT-USMANI.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/KAINAT-USMANI.jpg</a>           |
| 12 | Ravina Rai         | 2019-20 | 05 years | RF  | UGC  | GATE         | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/RAVINA-GATE.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/RAVINA-GATE.pdf</a>               |
| 13 | Shashank Shakyawal | 2019-20 | 05 years | RF  | UGC  | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SHASHANK-SHAKYAWAL.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/SHASHANK-SHAKYAWAL.jpg</a> |
| 14 | Surbhi Chourasiya  | 2019-20 | 05 years | SRF | ICMR | NA           | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/1.3.4-">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/1.3.4-</a>                                 |

|    |                |         |          |     |      |    |   |
|----|----------------|---------|----------|-----|------|----|---|
|    |                |         |          |     |      |    | SURBHI-ICMR-AWARD-LETTER-01.pdf   |
| 15 | Roshni Rajpoot | 2019-20 | 05 years | SRF | ICMR | NA | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/ROSHNI-RAJPOOT.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/ROSHNI-RAJPOOT.jpg</a> |
| 16 | Debabrata Dash | 2019-20 | 05 years | SRF | ICMR | NA | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/DEBABRATA-DASH.jpg">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/DEBABRATA-DASH.jpg</a> |

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years (10)

3.3.2.1: Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the last five years

| Year | Name of the workshop/ seminar   | Number of Participants | Date From - To  | Link to the Activity report on the website  |
|------|---|------------------------|-----------------|---|
| 2020 | Seven days short term course on Research methodology for Sciences (STC3-20) with support of UGC-HRDC. Convener : Prof. Versha Sharma and Prof. P.Mahobiya | 30                     | 16-22 Oct.2020  | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/REFRESHESHER-VS--PM.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/REFRESHESHER-VS--PM.pdf</a>           |
| 2021 | Fifteen Days Refresher Course on Current Trends in Life Sciences with support of HRDC-UGC, Convener : Prof. Versha Sharma                                 | 30                     | 8-22 March 2021 | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/15-DAYS-REFRESHER-VS--PM.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/15-DAYS-REFRESHER-VS--PM.pdf</a> |

|      |   |    |                       |   |
|------|---|----|-----------------------|---|
|      | and Prof.<br>P.Mahobiya   |    |                       |   |
| 2019 | One Week Global Initiative for Academic Network ( <b>GIAN</b> ) Course on Neural Actions of Psychotropic Drugs(174046G01) | 50 | 23 to 28 sep. 2019    | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AHI-MADAM-GIAN.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AHI-MADAM-GIAN.pdf</a>     |
| 2019 | One week <b>GIAN</b> lectures of Dr. Samuel W. James from University of IOWA-USA. Collaborator : Prof. Shweta Yadav       | 44 | 14 to 18 October 2019 | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/GIAN-SY-REPORT-1.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/GIAN-SY-REPORT-1.pdf</a> |

| 3.4.4 Number of Ph.D.s awarded per teacher during the last five years (10) |                        |                     |                     |                                     |                     |   |
|--|------------------------|---------------------|---------------------|-------------------------------------|---------------------|---|
| Name of the PhD scholar  | Name of the Department | Name of the guide/s | Title of the thesis | Year of registration of the scholar | Year of PhD awarded | Whether recognised as a Research Guide for Ph.D./D. M/M.Ch./D.N.B Super speciality /D.Sc./D' Lit (YES/NO) |
|  |                        |                     |                     |                                     |                     |   |

|                       |         |                  |   |                        |            |     |
|-----------------------|---------|------------------|---|------------------------|------------|-----|
| Peer Mohd. Isfaq      | zoology | Prof. S. K. Jain | Studies on the effect of Chaga mushroom extract on liver injury and exploration of the intrinsic inflammatory and growth regulatory signaling pathways              | Y154650111             | 19.01.2021 | YES |
| Neha Bunkar           | zoology | Prof. S. K. Jain | Mitochondrial retrograde signaling induced epigenetic modification in a subset of chronic human ailments: Biological framework to translational perspectives        | Y1346510001/15.07.2013 | 22.12.2017 | YES |
| Abdul Anvesh Mansoori | zoology | Prof. S. K. Jain | Molecular evaluation of DNA damage and repair pathway in alcoholic and tobacco users  | Y1346510015/15.07.2013 | 22.02.2019 | YES |
| Hamid Yousuf Dar      | zoology | Prof. V. Sharma  | Role of probiotics in modulating bone health via regulation of host immune system   | 2013                   | 2017       | YES |
| Shruti Gupta          | zoology | Prof. S. Yadav   | genomic profiling of bacterial isolates of earthworm gut to investigate its potential for detoxification of metal oxide nanoparticles using stress response factors | 2013                   | 2018       | YES |

|                  |         |                 |  |                   |      |     |
|------------------|---------|-----------------|--|-------------------|------|-----|
| Whidul Hasan     | zoology | Dr. D. Jat      | Neuroprotective Effect of TPP-conjugated flavonoids against Rotenone Induced Neurotoxicity in Mice : A Mitochondria Targeted Approach in Amelioration of Brian Disorders | Y1346510 009/2013 | 2019 | YES |
| Juli Jain        | zoology | Dr. D. Jat      | Ameliorative Effect of Quercetin Against Rotenone Induced Toxicity associated with Inflammation in Swiss Albino Mice   | Y1646500 9/2015   | 2021 | YES |
| Arun Kumar       | zoology | Dr. P. Mahobiya | Therapeutic uses of mitochondria targeted antioxidant against bacteria generated free radicals on thyroid gland of Swiss albino perkinsess                               | 2013              | 2018 | YES |
| Saurabh Chhonkar | zoology | Dr. R. K. Koiri | Biochemical studies to investigate the effect of phosphodiesterase 5 inhibitor on aflatoxin b1 induced hepatocellular carcinoma  | 2014              | 2018 | YES |
| Divya Rawat      | zoology | Dr. R. K. Koiri | Studies on metabocentric adaptation and transformations for survival occurring in  | 2013              | 2019 | YES |

|  |  |  |                          |  |  |  |
|--|--|--|--------------------------|--|--|--|
|  |  |  | hepatocellular carcinoma |  |  |  |
|--|--|--|--------------------------|--|--|--|

3.4.6 Number of books and chapters in edited volumes published per teacher during the last five years (15)

3.4.6.1: Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five year

| Sl. No. | Name of the teacher                             | Title of the book/chapters published  | Year of publication | ISBN/ISSN number of the proceeding | Whether at the time of publication was same (Yes/No) | Name of the publisher  |
|---------|---|---|---------------------|------------------------------------|--|--|
| 1       | Deepali Jat                                     | A Rose Ring on the Neck. .  | 2020                | 978-9354272165                     | yes  | Blue Rose Publishers Pvt. Ltd., New Delhi 110002                   |
| 2       | Manisha Nahar, D Jat                            | Monosodium glutamate as flavour enhancer in foods: toxicity and related health issues. In an overview of toxicants, | 2020                | 9.78938E+12                        | yes  | VishwagayanP rakashan,Global Books Organization, New Delhi-110059. |
| 3       | Mahobiya Payal, Rai Gayatri and Namdev Narendra | Cypermethrin: a toxicant in the mammals. In: Life Science and Biotechnology, (Ed. Sangeeta Mashi).                  | 2020                | 978-93-83837-97-7                  | yes  | ESN Publication, Tamil Nadu-626105, India. pp. 63-72.              |

|    |                                    |  |      |                   |     |   |
|----|------------------------------------|--|------|-------------------|-----|---|
| 4  | Mahobiya Payal                     | On overview of Toxicants. VishwagayanPrakashan,  | 2020 | 9.7893 8E+12      | yes | Global Books Organization, New Delhi-110059.                                    |
| 5  | Mahobiya Payal, Rai Gaytri         | Radiation: As a Toxicants. In: An overview of toxicants,   | 2020 | 978-93-83837-97-7 | yes | VishwagayanPrakashan, Global Books Organization, New Delhi-110059. pp. 23-30.   |
| 6  | Mahobiya Payal, Shakyawal Shashank | Ecological and health effects of arsenic. In: An overview of toxicants,  | 2020 | 978-93-83837-97-7 | yes | VishwagayanPrakashan, Global Books Organization, New Delhi-110059. pp. 114-131. |
| 7  | Mahobiya Payal, Chourasia Surbhi   | Toxicology and mode of action of cypermethrin. In: An overview of toxicants,   | 2020 | 978-93-83837-97-7 | yes | VishwagayanPrakashan, Global Books Organization, New Delhi-110059. pp. 153-172. |
| 8  | Rai Gayatri, MahobiyaPayal         | The effect of UV radiations on biological tissues. In: Climate change and Global health Management. (Ed. Ashwani Kumar Dubey)                              | 2020 | 978-93-5124-809-5 | yes | Astral publications, New Delhi-110002, pp. 47-57.                               |
| 9  | SamrendraS. Thakur, ShwetaYadav    | Exploration of earthworms of India through online digital library. In: Annelida,   | 2018 | 978-1-78923-397-1 | yes | InTech Open Publishing Process, Croatia, pp 33-59.                              |
| 10 | W Hasan, M Nahar, J Jain, D Jat    | A study on anxiety related behavioural alterationsinzebrafish. Sustainable development of ecosystem, wildlife and heritage conservation for human welfare, | 2018 | 978-1-78923-397-1 | yes | Astral International Pvt. Ltd. New Delhi- 110002.                               |

|        |  |   |      |                    |     |  |
|--------|--|---|------|--------------------|-----|--|
|        |  | Astral International Pvt. Ltd. New Delhi- 110002.   |      |                    |     |  |
| 1<br>1 | Ashutosh Vishwakarma, Shweta Yadav.  | A contribution to earthworm diversity of central India (Madhya Pradesh). In: Earthworms: Types, Roles and Research (Ed., Clayton G. Horton),  | 2017 | 978-1-53612-176-6. | yes | Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, N.Y. USA. pp 43-89. |
| 1<br>2 | Pavlicek Tomas, Cohen Tova, Shweta, Yadav, Kral Petr and Glasstetter Michele | Evolution and life of Oligochaetes. In: Earthworms: Types, Roles and Research (Ed., Clayton G. Horton),   | 2017 | 978-1-53612-176-6  | yes | Nova Publisher, USA. pp 1-42.  |
| 1<br>3 | Shweta Yadav   | Contribution of Earthworm to Bioremediation as a Living Machine In: Handbook of Research on Inventive Bioremediation Techniques (Ed. Jatindra Nath Bhakta),                         | 2017 | 978-1-5225-2325-3  | yes | IGI Global Publication House 701 E. Chocolate Avenue Hershey PA 17033, USA. pp 324-340.  |
| 1<br>4 | Shweta Yadav   | Potentiality of earthworms as bioremediating agent for nanoparticles. In: Soil Biology: Nanoscience and Plant Soil Systems. (Eds. Ghorbanpour Mansour, Manika Khanuja, Varma Ajit), | 2017 | 978-1-5225-2325-3  | yes | Springer International Publishing House, Switzerland, pp 259-278.                        |
| 1<br>5 | Payal Mahobiya   | Change in Reproduction Performance after treatment with Paclitaxol in Lymnaea acuminata. In: Nature conservation and resource management for human                                  | 2017 | 978-93-5124-809-5  | yes | Daya Publishing House, A Division of Astral  |

|    |                      |   |      |                     |     |  |
|----|----------------------|---|------|---------------------|-----|--|
|    |                      | welfare, (Editor- Dr. Ashwani Kumar Dubey)                                    |      |                     |     | International Pvt. Ltd. New Delhi-110002, pp. 19-26. |
| 16 | Versha Sharma et al. | Neurohormones   | 2016 | 978-3-659-51077-2-4 | yes | Lap Lambert Academic Publication, Germany.           |
| 17 | Shweta Yadav         | Earthworm Biology: Recent Advances in techniques to study earthworms.         | 2016 | 978-3659885143      | yes | Lambert Academic Publishing, Germany.                |
| 18 | Shweta Yadav         | Fish Culture: Contribution to self employment opportunity in Madhya Pradesh.  | 2016 | 93-80656-01-4.      | yes | Training Manual, Ajanta Books, Jodhpur, India.       |
| 19 | Shweta Yadav         | Vermicomposting and Javik Krishi Prabandhan.                                  | 2016 | 978-93-80656-00-7.  | yes | Ajanta Books, Jodhpur, India.                        |
| 20 | Shweta Yadav         | Pearl Culture: Contribution to self employment opportunity in Madhya Pradesh. | 2016 | 978-93-80656-02     | yes | Training Manual NQSF, Ajanta Books, Jodhpur, India.  |
| 21 | Malabika Sikdar      | Effect of environment on bird's physiology,                                   | 2016 | 978-93-84999-12-4   | yes | Sanrachana Prakash an, Allahabad.                    |

3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs) (15)

3.5.2.1: Total amount generated from consultancy and corporate training year wise during the last five years (INR in lakhs)

**Revenue generated from consultancy during the last five years**

| Name of the teacher consultant | Name of consultancy project | Consulting/Sponsoring agency with contact details | Year | Revenue generated (INR in Lakhs) |
|--------------------------------|-----------------------------|---|------|----------------------------------|
|--------------------------------|-----------------------------|---|------|----------------------------------|

|                           |   |   |                       |  |
|---------------------------|---|---|-----------------------|--|
| <b>Prof. J. D. Ahi</b>    | One Week Global Initiative for Academic Network (GIAN) Course on Neural Actions of Psychotropic Drugs(174046 G01) | Dept. of Psychiatry & Behavioural Sciences, Feinberg School of Medicine, North Western University- Chicago USA-Prof. Jelena Radulovic-USA | 13 to 18 Jan 2020     |  |
| <b>Prof. Shweta Yadav</b> | Phylogenomics and Molecular diagnostics for species identification  | One week GIAN lectures of Dr. Samuel W. James from University of IOWA-USA. Collaborator : Prof. Shweta Yadav-Dr. Samuel W. James -USA     | 14 to 18 October 2019 | Five lakh eighty one thousand six hundred (581600/-) |

| 3.4.7 E-content is developed by teachers : (10)<br>1. For e-PG-Pathshala, 2. For CEC (Under Graduate), 3. For SWAYAM, 4. For other MOOCs platform, 5. For NPTEL/NMEICT/any other Government Initiatives<br>6. For Institutional LMS |  |  |                             |   |  |
|---|--|--|-----------------------------|---|--|
| 4.3.5 Institution has the following Facilities for e-content development (5) 1. Media centre 2. Audio visual centre, 3. Lecture Capturing System(LCS) 4. Mixing equipments and softwares for editing                                |  |  |                             |   |  |
| Name of the teacher   | Name of the module developed   | Platform on which module is developed  | Date of launching e content | Link to the relevant document and facility available in the institution   | List of the e-content development facility available |
| Prof. Janak D. Ahi (NRC Coordinator)  | : Developed E-course on Advances in Animal Diversity, Systematics & Evolution for Annual Refresher Programme in Teaching through National Resource Centres under PMMMNMTT, Nov 2018.   | PMMMNMTT, Nov 2018   | Oct-19                      | <a href="https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3">https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3</a>   | EMMRC, DHSGU-Sagar                                   |
| Prof. Versha Sharma (NRC Coordinator)   | Developed E-course on Advances in Animal Diversity, Systematics & Evolution for Annual Refresher Programme in Teaching through National Resource Centres under PMMMNMTT, Nov 2018.   | PMMMNMTT, Nov 2018   | Oct-19                      | <a href="https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3">https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3</a>   | EMMRC  |
| Prof Shweta Yadav   | Designed and executed six month 2 Credit course for students, farmers, stakeholders on (Organic Farming Practices and Certification" with support of Educational Multimedia Research Centre, Dr Harisingh Gour Vishwavidyalaya, Sagar.                               | Massive Online Open Learning Course (MOOC)                                       | Oct-19                      | <a href="https://onlinecourses.swayam2.ac.in/cec21_ag03/preview">https://onlinecourses.swayam2.ac.in/cec21_ag03/preview</a>   | EMMRC, DHSGU-Sagar                                   |
| Dr. Raj Kumar Koiri   | E-content developed for National Resource Centre, Zoology on the topic: Isolation and Speciation (allopatric, parapatric, sympatric, pre- & post-zygotic) – Part I & Part II for Annual Refresher . Course can be accessed at:                                       | Programme in Teaching through National Resource Centres under PMMMNMTT, Nov 2018 | Oct-19                      | ( <a href="https://www.youtube.com/watch?v=T42YkqIoIZk&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=4">https://www.youtube.com/watch?v=T42YkqIoIZk&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=4</a> and <a href="https://www.youtube.com/watch?v=11XcKJt0q4&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=5">https://www.youtube.com/watch?v=11XcKJt0q4&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=5</a> ) | EMMRC, DHSGU-Sagar                                   |
| Dr. Rashmi Srivastava   | : E-content developed for National Resource Centre, Zoology on the topic: Structural and functional uniqueness of animal diversity for Annual Refresher Programme in Teaching through National Resource Centres under PMMMNMTT, Nov 2018. Course can be accessed at: | PMMMNMTT, Nov 2018   | Oct-19                      | <a href="https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3">https://www.youtube.com/watch?v=C3FSpxprU4U&amp;list=PLOCcwBUTT2jAtpJlkfhkQ-nuRRDg_qzYp&amp;index=3</a>   | EMMRC, DHSGU-Sagar                                   |

3.7.1 Number of collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty and students per year (10)

3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students year wise during the last five years

| Sl. No. | Title of the collaborative activity  | Name of the collaborating agency with contact details  | Name of the participant                                      | Year of collaboration | Duration    | Nature of the activity                                 | Link to the relevant document   |
|---------|--|--|--|-----------------------|-------------|--|---|
| 1       | One Week Global Initiative for Academic Network (GIAN) Course on Neural Actions of Psychotropic Drugs(174046G01) | Dept. of Psychiatry & Behavioural Sciences, Feinberg School of Medicine, North Western University-Chicago USA  | Prof. Jelena Radulovic-USA                                   | 13 to 18 Jan 2020     | one week    | GIAN   | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AHI-MADAM-GIAN.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/AHI-MADAM-GIAN.pdf</a>         |
| 2       | Indo-UK chevening event to Guide students for fellowship in abroad.  | Consultant : Er. Pankaj Jain and Mr. Tapash Home New Delhi. Collaborator : Dr. Deepali Jat Scholarship and fellowship award programme (Govt. of India and British High Commisiion) | Consultants : Er. Pankaj Jain& Shri Tapash K. Home New Dehli | 17 to 19 Oct. 2019    | three days  | Guide students for fellowship in abroad.               | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/CHEVENING-PROOF-DJ.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/CHEVENING-PROOF-DJ.pdf</a> |
| 3       | One week GIAN lectures of Dr. Samuel W. James from University of IOWA-USA. Collaborator : Prof. Shweta Yadav     | Phylogenomics and Molecular diagnostics for species identification   | Dr. Samuel W. James -USA                                     | 14 to 18 October 2019 | one week    | GIAN   | <a href="http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/GIAN-SY-REPORT-1.pdf">http://www.dhsgsu.edu.in/images/Reading-Material/Zoology/GIAN-SY-REPORT-1.pdf</a>     |
| 3       | Soil Fertility Improvement through Earth Worm Technology and Organic Farming                                     | <a href="#">Asian Production Organization, Japan 6-10 June 2016</a>  | Prof. Shweta Yadav   | 2016                  | one week    | Abroad Visit for advancement in research and education | <a href="#">Asian Production Organization, Japan 6-10 June 2016</a>   |
| 4       | Vermi-Tech and Gene Pool Transfer to Improve Soil Quality  | <a href="#">Inhouse training Programme by Dr Robert Blakmore, Japan 10-29 March,2016</a>   | Prof. Shweta Yadav   | 2016                  | two weeks   | Abroad Visit for advancement in research and education | <a href="#">Inhouse training Programme by Dr Robert Blakmore, Japan 10-29 March,2016</a>  |
| 4       | Molecular Phylogeny and Sequence Analysis to conserve earthworm faunal Diversity Worldwide                       | <a href="#">Workshop on Sequence Analysis and Molecular Phylogeny,Hyderabad 23-29 June,2016</a>  | Prof. Shweta Yadav   | 2016                  | one week    | Abroad Visit for advancement in research and education | <a href="#">Workshop on Sequence Analysis and Molecular Phylogeny,Hyderabad 23-29 June,2016</a>   |
| 5       | DNA-Barcode Technological Innovations  | <a href="#">Canadian Centre for DNA Barcode, Canada 8 February- 1 April,2016</a>   | Prof. Shweta Yadav   | 2016                  | three month | Abroad Visit for advancement in research and education | <a href="#">Canadian Centre for DNA Barcode, Canada 8 February- 1 April,2016</a>  |
| 6       | Taxonomical Advancements in Oligochaete  | <a href="#">International Oligochaete Taxonomy Meeting, France 7-17 November,2016</a>  | Prof. Shweta Yadav   | 2016                  | twoo weeks  | Abroad Visit for advancement in research and education | <a href="#">International Oligochaete Taxonomy Meeting, France 7-17 November,2016</a>   |

3.7.2 Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years (10)

3.7.2.1: Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

| Name of the Organisation/ Institution/ Industry with whom MoU is signed | Year of signing MoU | Duration of MoU     | List the actual activities under each MOU year wise |
|---|---------------------|---------------------|---|
|   |                     |                     |   |
| CSJM UNI KANPUR   | 2020                | FROM 2020 TILL DATE | Research and Education collaboration                |
| Zoological Survey of India  | 2021                | 2021 till date      | Research and Education collaboration                |