**4. Evaluative Report of the Department**

Name of the Autonomous College: Govt. Science College Jabalpur M.P.

Name of the Department: Deptt. Of Botany, Environmental Science and Microbiology

Dist : Jabalpur State: M.P.

Total Number of the Departments in the Institution: 12

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Name of the Department | Botany | Envir . Science | Microbiology |
| 1. | Year of Establishment | 1946 | 1987 | 1991 |
| 2. | Name of Programmev offered | B.Sc.,M.Sc,P h.D |  |  |
| 3. | Name of Teaching Post Sanctioned/Filled | 9/7 | 2/1 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4. | Number of student Enrolled |  |  |  |
|  | **B.Sc** | I st year | III sem | V sem |
|  | Botany |  |  |  |
|  | Environmental Science |  |  |  |
|  | Microbiology |  |  |  |
|  | **M.Sc.** | Ist | III |  |
|  | Botany | 27 | 13 |  |
|  | Environmental Science | 14 | 6 |  |

5. Number of Research Project

Faculty Name Dr. R.K.Shrivastava Assoc Professor Env.Sci

Major Project – Title Modeling Atmospheric Pollution

Duration Feb 2013 to 2017.

6. Inter Institutional Collaboration Projects and Associated grant received.

National Collaboration –TFRI, SFRI, BSI, PCB, IITM Pune.

International Collaboration - Nil

7. Departmental Project funded by DST-FIST, DBT, ICSSR etc Total grant received.

College has received fund from DST under ------ grant for research facilities, teaching facilities up gradation in different departments along with a computer lab Rs -70.00 lacs

1. Special research laboratories sponsored by Industries or corporate bodies

* Environmental Research Laboratory is equipped with various instruments for different environmental studies as Air Pollution /Water Pollution /Noise Pollution etc.

The laboratory is equipped with Air Quality Monitoring Station, the only of its kind in M.P. State. The station is installed by IITM Pune free of cost under the project. A part from this Spectrophotometer, Colorimeter, High Volume Air Sampler, Reparable Dust Sampler, Auto exhaust Analyzer, Ion meter and other routine instruments are available in the research lab. The lab is well equipped with computer etc. with broadband computer internet connectivity.

Botany and Microbiology- this research lab is equipped with several instruments for research and analysis. A botanical museum also exists in the Department.

Research centre with

* State recognition –yes by RDVV Jabalpur & Govt. of M.P.
* National recognition

Yes by major Research Project Sanctioned by various Govt. Agencies.

* International recognition- yes , International publications have published research papers of faculty of the department.

Progranmmes-

B.Sc courses and Section

|  |  |  |
| --- | --- | --- |
| S.No. | Group | Subjects |
|  | CBZ | Chemistry,Botany,Zoology |
|  | Es1 | Environmental Science,Zoology,Chemistyr |
|  | ES2 | Environmental Science,Geology,Chemistyr |
|  | MB1 | Zoology,Chemistyr,Microbiology |
|  | MB2 | Chemistyr,Botany,Microbiology |
|  | G3 | Geology, Chemistyr,Botany |
|  | MS1 | Chemistyr,Botany, Millitary Science |
|  | BT2 | Chemistyr,Botany,Biotechnology  P.G. Programmes-  M.Sc. Botany  M.Sc. Environmental Science  Ph.D. Programmes – Botany, Environmental Science |

9. Publications: - No of papers published in peer reviewed Journals

National/International

|  |  |  |
| --- | --- | --- |
| S.No. | Name of Professor | No of Research Papers Published |
|  | Dr. Neelima Raipuria | 215 |
|  | Dr. Shashi Tiwari | 12 |
|  | Dr.R.K. Shrivastava | 31 |
|  | Dr.Kartik Ghosh | 04 |
|  | Dr.I.P.Kori | 04 |
|  | Dr.Preeti Dongre | 02 |
|  | Dr.Abhay Uikey | 02 |
| 1. \* | Dr.M.K.Thakur | 28 |
| 1. \* | Dr.A.K.Ayachi | 16 |
| 1. \* | Dr.Bala Khatri | 09 |
| 1. \* | Dr.Archana Bajpai | 07 |
| 1. ^ | Dr.Alok Shakula | 04 |
| 1. \* | Dr.Sulekha Pathak | 09 |
| 1. \* | Dr.Seema Bhaskar | 03 |

\*Transferred, ^Ret aired January 2014

Monographs

* Chapter in Books –Nil
* Edited Books – Nil
* Books with ISBN no.-Nil
* No. of Citation Index- range/average
* No of Impact factor- range/average-0.1-4.7
* No. of H-index-Nil

10. Details of Patents & income generated -Nil

11. Area of Consultancy and income generated

As this is a govt. institute, paid consultancy is not allowed, however honorary consultancy is provided on the request, received from the local agencies/People. Faculty of botany helps in identification of plants and other plant related aspects. They also provide expert opinion for various other activities related to vegetation and plantation.

Faculty of environmental science provides consultancy to local people /agencies/administration on all the environmental related issues. Pollution control board office also ask for expert opinion in various aspects related to pollution and other environmental related fields.

12. Award/Recognitions received at the national international Level by-

Faculty-a) Dr. M.K.Thakur-Thomas Edison Award

B)Dr. R.K.Shrivastava –

Under the ministry of earth science Govt. of India, New Delhi, Air Quality Monitoring station have been installed (AQMS) in the environmental Research Lab. Of the Deptt. . It is the only Station installed in the state for research work.

Doctoral /Post Doctoral Fellows

The faculty members of the department namely Ms Sulekha Pathak , Mrs. Preeti Dongre and Mr. I.P. Kori have been awarded UGC teacher fellowship under the Faculty Improvement Programme for completion of the research work. All the three faculty have been awarded Ph.D. Degree by RDVV Jabalpur in the 2015-2016.

Recognition – A MOU has been signed between the environmental researches Laboratory of the Deptt. And IITM Pune for collaborative research in the field of Air Quality Monitoring and research. This MIU also facilitate the visit of scientist of IITM Pune and the faculty of department and also of students. A Major research Project has also been awarded to Dr. R. K. Shrivastava faculty of Environmental Science with Junior and senior fellowship to students. The project cost is Rs. 20.32 Lacs.

13. How Many Students have cleared Civil Services, Defense Services, NET,SLET, GATE & many other Competitive examination s.

Many of students have completed various examinations but the details are not available/ mentioned.

Dr. Anoop Sen- ICAR NET Twice

Mukesh Jhariya CSIR NET Dec. 2015.

14.List of Doctoral/Post Doctoral Students and research Associates

Environmental Science – Supervisor Dr. R. K.Shrivastava

Pawan Gautam – Submitted

Akilesh Patel - Submitted

Arti Pasi -Registered

Anoop Shrivastava- Registered

Manisha Kumariya- Registered

Purnima Shukla- Registered

1. Meghma Chakrabarti-Course work completed RDC awaited.

15. Number of Research Scholar s/Post Graduate Students getting financial assistance from the University/State/Central

Research Scholars

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dr. Neelima Raipuria | 3 registered | 2 completed Pre. Ph. D. course |  |  |
| Dr. Shashi Tiwari | 4 registered |  |  |  |
| Dr. R. K. Shrivastava | 6 registered | 1 completed Pre. Ph. D. course |  |  |
| Dr. M. K. Thakur | 7 registered | 1 thesis submitted |  |  |
| Dr. A. K. Ayachi | 3 registered | 1 thesis submitted |  |  |

IITM Pune gets the SRF under the MOES New Delhi. Name of Research Scholars.

1.Shri Pawan Gautam

2.Dr. Kalpana Sagar