

Evaluative Report of the Department

2014-15

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

1. Name of the department : **Mathematics**
2. Year of Establishment : **1 July 1971**
3. Names of Programmes / Courses offered : **UG**
(UG, PG, M.Phil., Ph.D., Integrated Masters;
Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and : **Nil**
the departments/units involved
5. Annual/ semester/choice based credit system : Semester based
(programme wise)

| Class | Semester |
|------------|--------------------------------|
| B. Sc. I | Semester – I , Semester – II |
| B. Sc. II | Semester – III , Semester – IV |
| B. Sc. III | Semester – V , Semester – VI |

6. Participation of the department in the courses : **Nil**
offered by other departments
7. Courses in collaboration with other universities, : **Nil**
industries, foreign institutions, etc.
8. Details of courses/programmes discontinued (if any) with reasons : **Nil**
9. Number of Teaching posts

| Posts | Sanctioned | Filled |
|-------------------|------------|-----------|
| Professor | ----- | ----- |
| Asso. Professor | ----- | ----- |
| Assist. Professor | 02 | 02 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|-------------------|---------------------|------------------|-----------------------|----------------------------|---|
| V. S. Bawane | M. Sc., M. Phil. | Assist. Prof. | General Relativity | 21 | Nil |
| Dr. R. S. Wadbude | M. Sc., Ph. D. | Assist. Prof. | Modern Algebra | 10 | Registered 00 |

11. List of senior visiting faculty : **Nil**

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty

: Nil

13. Student -Teacher Ratio (programme wise) :

| Sr. No. | Class | Students | Student -Teacher Ratio |
|---------|------------------------|------------|------------------------|
| 1 | B. Sc-I Sem- I & II | 130 | 130 : 2 |
| 2 | B. Sc-II Sem- III & IV | 116 | 116 : 2 |
| 3 | B. Sc-III Sem- V & VI | 107 | 107 : 2 |

14. Number of academic support staff (technical) and

administrative staff; sanctioned and filled : Nil

15. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D/ MPhil/PG.

| Faculty | Qualification |
|-------------------|--------------------------|
| V. S. Bawane | M. Sc., B.Ed., M. Phil., |
| Dr. R. S. Wadbude | M. Sc., B.Ed., Ph. D., |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : 01- Funded by **UGC**, grant received- **30,000/-**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received

| Faculty | Agency | Project | total grants | grants received |
|-------------------|------------|---------|-----------------|-----------------|
| Dr. R. S. Wadbude | UGC | Minor | 30,000/- | 10,000/- |

18. Research Centre /facility recognized by the University : Yes **Dept. of Mathematics**

19. Publications:

a) Publication per faculty Dr. R. S. Wadbude (Record of paper publication On last 05 year)

* Number of papers published in peer reviewed journals (national / international) by faculty and students

International : **04**

| Sr.No | Name of papers | Publication | ISSN No. |
|-------|--|---|------------------------|
| 1 | “Higher dimensional Bianchi Type –III Cosmological Modal s with Perfect Fluid and Dark Energy” | Prespacetime Vol-04 issue 07 p.p 714-724 2013 | ISSN 2153-8301 |
| 02 | Bulk Viscous Kantowski-Sachs Cosmological Modal with Time dependent Λ-term in GR | Multilogic in Science Issue-VIII Vol-03 Jan. 2014 | ISSN 2277-7601. |
| 03 | ‘Some Characterized Projective δ-cover’ | IJEAS -Vol-02, 36-38 Issue 04-2015 | 2394-3661 |
| 04 | “Strongly Pure- Periodic Modules and a structure of Strongly Pure Projective Resolutions” | ISCA-2015 at Mumbai | |

* Number of publications listed in **International** Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences

Directory, EBSCO host, etc.)

NA

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|--|--|--|--|
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| | | | |

- * Monographs : Nil
- * Chapter in Books : Nil
- * Books Edited : Nil
- * Books with ISBN/ISSN numbers with details of publishers : Nil
- * Citation Index
- * SNIP
- * SJR
- * Impact factor
- * h-index

20. Areas of consultancy and income generated : Nil

21. Faculty as members in

a) **National committees** b) International Committees: **IMS - BHU. & ISCA**

c) Editorial Boards. Nil

22. Student projects

a) Percentage of students who have done in-house : Nil
projects including inter departmental/programme

b) Percentage of students placed for projects in : Nil
organizations outside the institution
i.e.in Research laboratories/Industry/other agencies

23. Awards/ Recognitions received by faculty and students

| Name of the students | Year | Award |
|----------------------|------------|---|
| Ku. C.P. Wankhade | March-2015 | SGB Amravati University Topper in Mathematics , and 4 th Merit |
| | | |
| | | |

24. List of eminent academicians and scientists/ :
visitors to the department

- 1) **Dr. K. S. Adhav, Prof. & Head, PGTD of Mathematics SGB Amravati University, Amravati**
- 2) **Dr. S.D. Katore, Prof. PGTD of Mathematics SGB Amravati University, Amravati**

25. Seminars/ Conferences/Workshops organized & the source of funding

a)National : Nil

b)International : Nil

26. Student profile programme/course wise: Nil

27. Diversity of Students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| UG | 98.03% | 1.96% | Nil |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? NA

29. Student progression

| Student progression | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG | 47.22 % |
| PG to M. Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | NA |
| Employed | Nil |
| • Campus selection | |
| • Other than campus recruitment | |
| Entrepreneurship/Self-employment | Nil |

30. Details of Infrastructural facilities

a) Library : **Central and Departmental Library**
b) Internet facilities for Staff & Students : **Yes**
c) Class rooms with ICT facility : **Yes, available in the college**
d) Laboratories : **Nil**

31. Number of students receiving financial assistance from college, university, government or other agencies : **Yes, more than 80% students get financial assistance from State Government.**

32. Details on student enrichment programmes:

(special lectures / workshops / seminar) with external experts

| External Expert | Institution | Programme | Year |
|----------------------------|---------------------------------------|---|------|
| 1. Dr. K. S. Adhav | PGTD of Mathematics SGBAU Amravati | Inaugural Speech on Students Seminar Competition | 2014 |
| 2. Dr. S. D. Katore | PGTD of Mathematics SGBAU Amravati | Guest Lecture on Students Seminar Competition | 2014 |

33. Teaching methods adopted to : **Lecture Method, Class wise Seminars, chalk and improve student learning black board, used PPT , GD, Question-Answer Method etc.**

34. Participation in Institutional Social

Responsibility (ISR) and Extension activities: **Mr. V. S. Bawane is working as a**

35. SWOC analysis of the department and Future plans :

Strength

- Fulfilled, competent & qualified teaching Staff.
- Good Academic University Results.
- University Merits.
- Recognized Research guide in the Dept.

Weakness

- Consultancy

Opportunity

- Opportunity of teaching mathematics towards students from rural and backward area.

Challenges

- Increased Strengths of students in class.

Future plan

- To increase research work (Research Project and research papers).
- To write books.