

## Evaluative Report of Physics Department

### Faculty Profile

Physics department is one of the major departments in our college. There are Three members in the department with different specialty areas, one of them has completed his Ph.D. degree & remaining two have registered for the same.

- 1. Name of the Department:** Department of Physics
- 2. Year of Establishment:** July 1990
- 3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D. etc.) :**
  - UG (Physics) Subsidiary up to SYBSc level
- 4. Names of Interdisciplinary courses and the departments/units involved:** Nil
- 5. Annual/ semester/choice based credit system (Programme wise)**
  - UG (Physics) –CBCS (Credit Based Grading System) (C7525)
- 6. Participation of the department in the courses offered by other departments:** Nil
- 7. Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
- 8. Details of courses/programmes discontinued (if any) with reasons:** Nil
- 9. Number of Teaching posts**

	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	Nil	Nil
Asst. Professors	3	3

**10. Faculty profile with name, qualification, designation, specialization**

**(D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Specialization</b>	<b>No. of Years of Experience</b>	<b>No. of Ph.D. Students guided for the last 4 years</b>
Mr.B.M.Shikare	M.Sc., M.Phil.	Asst. Prof.	Physics	22	-
Dr.S.R.Kanhekar	M.Sc., Ph.D.	Asst. Prof.	Physics	20	-
Mr.B.E.Walunj	M. Sc., M.Phil.	Asst. Prof.	Physics	16	-

**11. List of senior visiting faculty – N.A.**

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty: N.A.**

**13. Student -Teacher Ratio (Programme wise)**

➤ **UG – 167/3 i.e. 1:56 (110+57)**

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled**

<b>Support staff (technical) (lab Attendant)</b>		<b>Administrative staff (Lab Assistant)</b>	
<b>Sanctioned</b>	<b>Filled</b>	<b>Sanctioned</b>	<b>Filled</b>
01	01	<b>01 (For Three Lab)</b>	<b>01</b>

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

As mentioned in the point No. 10

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil**

**17. Departmental projects funded by DST – FIST, UGC, DBT, ICSSR, etc. and total grants received: Nil**

**18. Research Centre /facility recognized by the University: Nil**

**19. Publications:**

➤ **Publication per faculty: Nil**

➤ **Number of papers published in peer reviewed journals (National / International) by faculty and students: Nil**

➤ **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.): Nil**

○ **Monographs: Nil**

○ **Chapter in Books: Nil**

○ **Books Edited: Nil**

○ **Books with ISBN/ISSN numbers with details of publishers: Nil**

○ **Citation Index: NA**

○ **SNIP: NA**

○ **SJR: NA**

○ **Impact factor: NA**

○ **h-index: NA**

**20. Areas of consultancy and income generated: Nil**

**21. Faculty as members in**

a) National committees Nil

b) International Committees Nil

c) Editorial Boards Nil

**22. Student Projects**

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

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

**23. Awards / Recognitions received by faculty and students: Nil**

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

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

**26. Student profile programme/course wise:**

Sr. No.	Year	Name of the Course / Programme	Applications received	Selected	Enrolled		Pass percentage
					*M	*F	
01	2010-11	FYBSc	117	117	50	67	
		SYBSc	50	50	25	25	
02	2011-12	FYBSc	143	143	53	90	Sem I - 44.54 Sem II - 55.46
		SYBSc	52	52	19	33	
03	2012-13	FYBSc	119	119	52	67	Sem I - 28.57 Sem II - 32.29
		SYBSc	88	88	42	46	Sem III - 39.77 Sem IV - 65.91
04	2013-14	FYBSc	119	119	46	73	Sem I - 19.33 Sem II - 32.25
		SYBSc	63	63	25	38	Sem III - 34.92 Sem IV - 46.03
05	2014-15	FYBSc	134	134	54	80	Sem I - 22.06 Sem II - 38.97
		SYBSc	65	65	22	43	Sem III - 44.78 Sem IV - 49.25

\*M = Male \*F = Female

**27. Diversity of Students**

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
B. Sc.	2014-15	99	1	Nil
M. Sc.	Nil	Nil	Nil	Nil

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

**29. Student Progression**

Student progression	Against % enrolled
UG to PG	50%
PG to M. Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
<b>Employed</b>	Nil
• Campus selection	Nil
• Other than campus recruitment	Nil
Entrepreneurship/Self-employment	Nil

**30. Details of Infrastructural facilities**

**a) Library:** NA

**b) Internet facilities for Staff & Students:** Yes. Internet facility for only staff with dongle. Free of cost internet facility is available in library for students.

**c) Class rooms with ICT facility:** No, ICT separately but sharing is possible

**d) Laboratories:** We are having well furnished & well equipped laboratories for UG Courses. Dimensions are as follows

**Major Lab: 24.10 ft X 42ft = 1012.2 sq.ft**

**31. Number of students receiving financial assistance from college, university, Government or other agencies:**

Yes. Scholarships are given as per rules & regulations of Govt. of Maharashtra.

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:**

**33. Teaching methods adopted to improve student learning:**

- Techniques like use of scientific models, PPT presentations, AV presentations, group discussions.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

- Students & staff of department participate in the activities like Blood donation, Cleaning campaign, through the programmes like NSS.
- Department also designed a plant for rain water conservation. All distilled water demand is fulfilled using this water.

**35. SWOC analysis of the department and Future plans:**

**Strengths:**

- Department has spacious laboratory.
- Department has adequate instruments.
- Department has separate dark room.
- ICT room is available on sharing basis.

**Weakness:**

- Space is the major constraint in the development.
- We require more number of smart classrooms for UG classrooms.
- No. Separate ICT room.

**Opportunities:**

- Pen city is located near Mumbai and Pune which creates opportunities.
- Graduate courses can be started in future.

**Challenges:**

- To motivate the students who are having weak socio-economical background for taking higher education.
- To enhance the research activity in the department.

**Future Plans:**

To initiate the collaborative activities with other colleges under Mumbai University and other authorities such as forest department.

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