

1. Department Profile

1.1 Name of the Department : **Physics**

1.2 Year of establishment: **1940**

1.3 List of all heads with tenure from establishment:

Sr.No.	Name	Period
1.	Dr. G. L. Datta	1940-43
2.	Shri. G. V. Gogate	1943-72
3.	Shri. C. L. Arora	1972-77
4.	Shri. P. C. Rao	1977-82
5.	Shri. B. A. Mangoli	1982-91
6.	Shri. D. V. Sutrave	1991-92
7.	Dr.N. S. Dhayagude	1992-98
8.	Mrs. V. N. Dhayagude	1998-2009
9.	Shri. K. D. Jadhav	2009-11
10.	Dr. R. N. Mulik	2011 Onwards Till Date

1.4 Courses Run: **B.Sc. and M.Sc. Physics (Solid State Physics)**

1.5 List of Bridge courses:

Physics Laboratory Safety and Handling of Instruments

1.6 List of College Certificate courses:

Introduction to Medical Physics Instruments

1.7 List of University Affiliated Certificate courses:

Maintenance and Repairing of Domestic Electric and Electronic

Appliances

1.8 No. of Teaching Staff: **05**

Sr. No.	Name of Faculty	Qualification	Designation
1.	Dr. R. N. Mulik	M.Sc. B.Ed., M.Phil., Ph.D.	Head and Associate Professor
2.	Mr. E. K. Kore	M.Sc.	Associate Professor
3.	Dr. S. D. Chavan	M.Sc. Ph.D.	Associate Professor
4.	Dr. S. G. Pawar	M.Sc. Ph.D.	Assistant Professor
5.	Dr. C. V. Chanmal	M.Sc. SET, Ph.D.	Assistant Professor

1.9 List of CHB staff specifying their Name & Educational Qualification:

Sr. No.	Name of Faculty	Qualification
1.	Mr. G. M. Hingangavkar	M.Sc. NET
2.	Mr. S. S. Siddul	M.Sc. SET
3.	Mr. T. T. Sathe	M.Sc.
4.	Mr. S. L. Tamboli	M.Sc. B.Ed.
5.	Mr. Y. M. Jadhav	M.Sc.
6.	Mr. M. N. Bagali	M.Sc. SET
7.	Mr. S. S. Bandgar	M.Sc.
8.	Ms. S. R. Sagar	M.Sc. B.Ed.
9.	Ms. S. A. Kolekar	M.Sc.
10.	Ms. D. R. Guled	M.Sc.
11.	Ms. S. S. Pandit	M.Sc. SET
12.	Ms. S. S. Waghmode	M.Sc.

1.10 No. of Support Staff: Lab Assistant, Attendant and Peon

Sr. No.	Name	Designation
1.	Mr. D. H. Pawar	Lab. Assistant
2.	Mr. D. C. Nanaware	Lab. Attendant
3.	Mr. P. K. Ghodake	Lab. Attendant
4.	Mr. C N. Patrot	Lab. Attendant
5.	Mrs. S. M. Chindhe	Lab. Attendant
6.	Mr. B. V. Birajdar	Lab. Attendant

1.11 Gold medalists, University Ranker, College Ranker Students: (B.Sc. III)

Sr. No.	Name	Percentage	Year
1.	Ms Burkule B.B.	92.16	2014
2.	Ms. Khan	91.50	2015
3.	Ms. Hippargikar M. V. (University Ranker)	96.66	2016

4.	Mr. Rajguru S. J.	94.66	2017
5.	Ms. Anvekar A. C.	92.92	2018

1.12 Special Achievements (if any)

- i) The new course M.Sc. Physics (Solid State Physics) is started from 2018.
- ii) The Solapur University sponsored National Conference on Nuclear Energy: Need of the Society And Misconceptions (NENSEM 2018) is organized on 14 Feb. 2018.
- iii) The department organized Three (For B.Sc I and III) workshops on syllabus discussion sponsored by Solapur University, Solapur.
- iv) Three minor research projects are completed and two are ongoing.
- v) Our staff and students participated and won prizes in Avishkar Research Festivals.

1.13 Faculty wise Time Table (2017-18)

1.14

Time	Mon	Tue	Wed	Thu	Fri	Sat
10.15	---	---	---	---	B.Sc.II(06) RNM	B.Sc.II(06) RNM
11.05	B.Sc.I (09,11) SGP/CVC	---	---	B.Sc.I (09,11) SGP	B.Sc.I (9,11) SGP	---
11.55	B.Sc.II(11) SDC	B.Sc.II(06) SDC		---	B.Sc.III(8) CVC	B.Sc.III(8) EKK
12.45	---	---		---	B.Sc.III(8) EKK	B.Sc.III(8) CVC
1.35	B.Sc.II(20) EKK	B.Sc.II(20) EKK	B.Sc.II(C2) SDC	B.Sc.II(C2) RNM	B.Sc.III(8) SDC	B.Sc.III(8) SDC B.Sc.II EKK
2.40	B.Sc.III(8) SDC	B.Sc.III(8) CVC	B.Sc.III(8) SGP	B.Sc.III(8) EKK	B.Sc.I (C2/C3) CVC B.Sc.III(8) SGP	B.Sc.III(8) SGP
3.30	---	---	---	---	---	B.Sc.I(C2/C3) CVC
Practicals						
11.30	B.Sc.III	B.Sc.III	B.Sc.III	B.Sc.III	---	---

	ALL	ALL	ALL	ALL		
2.30	B.Sc.II CVC, TTS, SLT, MNB, YMJ	B.Sc.II SDC, TTS, SLT, MNB, YMJ	B.Sc.II SDC, TTS, SLT, MNB, YMJ (Meteorology EKK)	B.Sc.II SGP+ GMH, SSS, SAK	B.Sc.II EKK+ GMH, SSS, SAK	B.Sc.II RNM+ GMH, SSS, SAK
2.30	B.Sc.I SGP+ Sagar, Guled, Pandit, Waghmode, Bandgar	B.Sc.I RNM+ Sagar, Guled, Pandit, Waghmode, Bandgar	---	B.Sc.I CVC+ Sagar, Guled, Pandit, Waghmode, Bandgar	---	---

1.15 Facilities: Solapur University Recognized Research Centre, Well equipped Research Laboratory, Recognized Research Guides, LCD projector, Smart board, Computer Laboratory with Internet facility, Departmental Library

1.16 Research Area: Synthesis of Materials for Gas sensors, Supercapacitors, Synthesis of Multiferroic Materials, Ferrofluids, and Conducting Polymers etc.

1.17 Publication No.:

- Journals: 76
- Conference/workshop: 94
- Books: 28

1.18 Conferences/Workshops/Seminars organized: Title, funding agency, amount and year

Sr.No	Topic of Seminar/Workshop	Convener	Date	Funding Agency
1	Probes and sensors of physics and electronics in new millennium (PROSPENM)-2004	Prof. Mrs. V. N. Dhayagude	Dec.17-19,2004	UGC(WRO) (50,000)
2	Recent Advances in Helio Physics (RAHP)-2010	Prof. K. D. Jadhav	5 th and 6 th Feb.2010	UGC(WRO) (80,000)
3	National Conference	Dr. R. N. Mulik	14 th and 15 th	UGC(WRO)

	on Physics of Nonmaterial's and applications (NCPNA)-2012		Dec.2012	(96,2500)
4	Workshop on new Syllabus of B.Sc.III	Dr. R. N. Mulik	7 th Oct 2012	Solapur University (5000)
5	Workshop on new Syllabus of B.Sc.I(CBCS)	Dr. R. N. Mulik	9 th Feb 2018	Solapur University (5000)
6	Workshop on new Syllabus of B.Sc.III (CBCS)	Dr. R. N. Mulik	20 th Jan2018	Solapur University (5000)
7	National Conference on Nuclear Energy: Need of the Society And Misconceptions (NENSM)-2018	Dr. R. N. Mulik	14 th Feb 2018	Solapur University (10,000)

1.19 Grants received for projects: Title, funding agency, amount, year of sanction & completed

Sr. No	Principal Investigator	Project Title	Funding agency	Duration	Amount sanctioned In Rs.	Present status
1	Dr. R. N. Mulik	Synthesis and Characterization of Lead-Tin Chalcogenide thin film photo detector	UGC (WRO) PUNE	30 th Jan 2008	80,000/-	Completed
2	Dr. R. N. Mulik	Development of Nanostructured SnO ₂ thin film Gas Sensor.	UGC (WRO) PUNE	29 th Feb 2012	1,95,000/-	Completed
3	Mr. E. K. Kore	Development and Characterization of Co-Zn Ferrite Nano particles for Ferrofluid Application	UGC (WRO) PUNE	Mar 2013 To Mar 2015	1,45,000/-	Completed

4	Dr. S. G. Pawar	Electrochemical Synthesis of Manganese Oxide (MnO ₂) Electrode for High Performance Supercapacitor Application	D.B.F. Dayanand College, Solapur	April 2018 To March 2020	10,000/-	Ongoing
5	Dr. C. V. Chanmal	Chemical Bath Deposition of ZnO Thin Films for Applications in Solar Cells	D.B.F. Dayanand College, Solapur	April 2018 To March 2020	10,000/-	Ongoing

1.20 List of Research Guides along with enrolled (working/completed) Ph.D. and M.Phil.

Students in the following format

Sr. No.	Name of Ph.D. /M.Phil. student	Name of Guide	Title of Research/ Dissertation	Degree Ph.D. /M.Phil.	Registration Date	Completion Date (Submit Declaration Certificate)	Student Photograph
		Dr. R. N. Mulik					

1.21 Non teaching staff Profile

<u>Sr No</u>	<u>Name of Staff</u>	<u>Date of Joining</u>	<u>Qualification</u>	<u>Designation</u>	<u>Photo</u>
1.	Shri D.H.Pawar	30/12/1998	B.Sc.B.Ed.B.P.Ed. M.Lib.& I.Sc.SET	Laboratory Assistant	
2	Shri.D.C.Nanaware	06/10/1982	9 th Class	Laboratory Attendent	
3	Shri.C.N.Pathrut	01/08/1995	9 th Class	Laboratory Attendent	
4	Shri.P.K.Ghodake	06/05/1996	S.S.C.	Laboratory Attendent	
5	Mrs S.M.Chindhe	05/10/2007	H.S.C.	Laboratory Attendent	
6	Shri.B.V.Birajdar	23/11/2004	M.A.	Peon	