

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Annual Self Appraisal Report (ASAR)**

As per 7<sup>th</sup> Pay UGC Regulation 18<sup>th</sup> July, 2018 and

Govt. of Maharashtra Resolution 8<sup>th</sup> March, 2019

**For College Assistant /Associate Professor /**

**University Assistant Professor**

Academic Year: **2023-2024**

(Duration: From 15/06/2023 To 14/06/2024)

**A. General Information**

- a) Name (Surname first) : Dr. Sanjay Subhash Latthe
- b) Designation : Assistant Professor, Department of Physics,  
Vivekanand College, Kolhapur (Empowered Autonomous)
- c) College / University : Vivekanand College, Kolhapur (Empowered Autonomous)
- d) Department : Physics
- e) Date of Birth : 01/06/1985
- f) Date of Appointment : 15/06/2016
- g) Total Teaching Experience : UG : 08 Years, PG: 08 Years
- h) Permanent Address (with Pin code) : Kumbar Galli, Near Hanuman Temple, Sangola, Tal: Sangola,  
Pin – 413307, Dist: Solapur Maharashtra, India
- Mobile No. : 7030310947
- Email : latthes@gmail.com

**B. Academic Qualifications :**

Sr. No.	Exam. Passed	University	Subject	Year	Grade / Class
1	B. Sc.	Shivaji University, Kolhapur	Physics	2005	Distinction
2	M. Sc.	Shivaji University, Kolhapur	Physics	2007	First
3	Ph. D.	Shivaji University, Kolhapur	Physics	2010	--
4	Post-Doc	Koc University, Turkey	Physics	2012	--
5	Post-Doc	Korea University, South Korea	Physics	2013	--
6	Post-Doc	Tokyo University of Science, Japan	Physics	2015	--

**B. Research / Fellowship / Research Training Program:**

Sr. No.	Research	Title of Work / Thesis	University / Institute
1.	Summer Research Fellowship from Indian National Science Academy (INSA) New Delhi	Ms. Preeti Mahato from Chhatrapati Shahu Ji Maharaj University, Kanpur carried out research work for two months (Mid of May to July 2024) in the research laboratory of Department of Physics, Vivekanand College, Kolhapur under the guidance of Dr. Sanjay S. Lathe	Chhatrapati Shahu Ji Maharaj University, Kanpur

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Sr. No.	Course	Duration	University / Institute
1	Two - Week Refresher Course in "PHYSICS", organized by Ramanujan College, University of Delhi in Collaboration with Bhaskaracharya College of Applied Sciences, University of Delhi and Deshbandhu College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching and obtained Grade A+.	30/08/2023 - 13/09/2023	University of Delhi in Collaboration with Bhaskaracharya College of Applied Sciences, University of Delhi and Deshbandhu College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching

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**Appendix II****Table 1****Assessment Criteria and Methodology for University/College Teachers****Table 1.1: Teaching –**

Activity	Percentage Obtained	Grade Claimed	Grade Verified
Teaching- $\frac{525}{540} \times 100 = 98\%$ Where A: Number of Classes (Lectures and Practicals) taught B: Total classes (Lectures and Practicals) assigned (Classes taught includes sessions on tutorials, lab and other teaching related activities)	98%	Good	Good

Grading Criteria: 80% &amp; above - Good, Below 80% but 70% &amp; above - Satisfactory

Less than 70% - Not satisfactory.

**Note :** Strike out whichever is not applicable.



**Table 1.2: Involvement in the University / College students related activities / research activities:**

Sr. No.	Activity	Grade Claimed	Grade Verified	Page No.
(a)	Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ coordinator, Warden etc. <b>Number of activities: 05</b> 1. Member, Training and Placement Office, 2. Chairman, UGC Correspondence Committee 3. BOS member Department of Physics, Vivekanand College, Kolhapur 4. Member, Research Development and Promotion Cell <b>Chairman:</b> Chairman of Board of Studies in Physics, Vivekanand College, Kolhapur (Autonomous)	Good	Good	184- 186
(b)	Examination and evaluation duties assigned by the college / university or attending the examination paper evaluation. – University Question paper setting & assessment College Question paper setting & assessment Internal & University Invigilation/supervision	Good	Good	187- 189
(c)	Student related co-curricular, extension and field based activities such as student clubs, career counseling, study visits, student seminars and other events, cultural, sports, NCC, NSS and community services. <b>Document attached</b>	Good	Good	190- 195
(d)	Organizing/ Paper Presented/Attended seminars / conferences / workshops, other college / university activities: Number of activities: <b>04</b>	Good	Good	196- 200
(e)	Evidence of actively involved in guiding Ph.D students. Number of Students: <b>04</b>	Good	Good	201- 204
(f)	Conducting minor or major research project sponsored by national or international agencies. Number of Projects: Major: Nil Minor: <b>01</b>	Good	Good	205
(g)	At least one single or joint publication in peer reviewed or UGC list of Journals. Total Research Paper Publications: <b>08</b>  01) "A Facile Approach for Oil-water Separation using Superhydrophobic Polystyrene-silica Coated Stainless Steel Mesh Bucket", Marine Pollution Bulletin, 198, (2024) 115790. (IF = 5.3)  02) "Mechanism of Selective Q $\beta$ Bacteriophage Inactivation under the Presence of E. Coli Using Ground Rh-Doped SrTiO <sub>3</sub> Photocatalyst", Catalysts, 14 (2), (2024) 94. (IF = 3.8)  03) "Fabrication of Superhydrophobic Coating by Spraying PDMS-SiO <sub>2</sub> Suspension for Self-Cleaning Application", Chem. Sci. Advances, 01,	Good	Good	206- 215



	(1), (2024), 21-26. (IF = 0.5)			
	04) "Development of self-cleaning superhydrophobic cotton fabric through silica/PDMS composite coating", Surface Topography: Metrology and Properties, 11 (4), (2023) 045004. (IF = 2.0)			
	05) "Design and Mechanism of Photothermal Soft Actuators and their Applications" Journal of Materials Chemistry A, 12, (2024), 17896-17922. (IF = 10.7)			
	06) "Solar-driven interfacial evaporation: materials design and device assembly", Energy Materials, 4, (2024), 400021. (IF = 11.8)			
	07) "Recent Advancements in Design, Development and Demands of Photothermal Superhydrophobic Materials", Materials Today Chemistry 35, (2024), 101868. (IF = 6.7).			
	08) "Efficient Separation of Oil-water Emulsions: Competent Design of Superwetting Materials for Practical Applications", Journal of Environmental Chemical Engineering, 11 (6), (2023), 111299. (IF = 7.4).			

**Grading Criteria:** Good - Involved in at least 3 activities

Satisfactory - 1-2 activities

Not-satisfactory - Not involved / undertaken any of the activities

**Note:** i) Number of activities can be within or across the broad categories of activities

ii) Strike out whichever is not applicable.

### Overall Grading :

Sr. No.	Grade	Criteria
1.	Good	Good in teaching (Table 1.1) and satisfactory or good in activity at Table 1.2.
2.	Satisfactory	Satisfactory in teaching (Table 1.1) and good or satisfactory in activity at Table 1.2.
3.	Not Satisfactory	If neither good nor satisfactory in overall grading

**Note:** For the purpose of assessing the grading of Activity at Table 1.1 and Table 1.2, all such periods of duration which have been spent by the teacher on different kinds of paid leaves such as Maternity Leave, Child Care Leave, Study Leave, Medical Leave, Extraordinary Leave and Deputation shall be excluded from the grading assessment. The teacher shall be assessed for the remaining period of duration and the same shall be extrapolated for the entire period of assessment to arrive at the grading of the teacher. The teacher on such leaves or deputation as mentioned above shall not be put to any disadvantage for promotion under CAS due to his/her absence from his/her teaching responsibilities subject to the condition that such leave/deputation was undertaken with the prior approval of the competent authority following all procedures laid down in these regulations and as per the acts, statutes and ordinances of the parent institution.

Overall Grading				
Sr. No.	Grade Claimed	Overall Grade Claimed	Grade Verified	Overall Grade Verified
Table – 1.1	Good	Good	Good	Good
Table – 1.2	Good		Good	

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Signature of the Faculty

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Signature of HOD

**HEAD**  
DEPARTMENT OF PHYSICS  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

*Joshi*

Co-ordinator, IQAC  
**Coordinator - IQAC**  
**Vivekanand College,**  
**Kolhapur**



*psu*

Signature of the Principal

**Principal**  
Vivekanand College, Kolhapur  
(An Empowered Autonomous Institute)