CURRICULUM VITAE

Dr. Heramb Prabhakar Gaikwad [M.Sc., Ph.D. (Physics)]

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E-Mail : herambgaikwad01@gmail.com

Blog : https://astrophilehpg.blogspot.com/

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Google Scholar : Google citations, h-index & i10-index

1. Personal Information:

Name : Dr. Heramb Prabhakar Gaikwad

Date of Birth : 13th March 1990

Birth Place : Belgaum, Karnataka, India

Marital Status: Single.

Languages Known: Marathi, English and Hindi.

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Dist.: Sangli Tal.: Miraj Pin code: 416 410

State: Maharashtra, India

Contact No. : +91-9766887202

2. Academic Details:

Sr. No.	Course	Year	University / Board	Marks Obtained (%)
1.	Ph.D. (Physics)	2019	Shivaji University, Kolhapur	Awarded
2.	M.Sc. (Physics)	2013	Shivaji University, Kolhapur	60.21
3.	B.Sc. (Physics)	2011	Shivaji University, Kolhapur	69.12

3. Research / Fellowship / Research Training Program:

Sr. No.	Research	Title of Work / Thesis	University / Institute	Date of Award
1.	Ph.D.	STUDY OF DYNAMICS OF MESOSPHERE OVER LOW LATITIDE INDIAN REGION BY MEDIUM FREQUENCY RADAR	Shivaji University Kolhapur	25.02.2019
2.	PDF (Research Associate)	Study of Tropical Meteorology	Indian Institute of Tropical Meteorology Pune	08.04.2019

4. Experience:

Sr. No.	Name of Organization	Duration	
1.	Jaysingpur College, Jaysingpur	07-07-2014 to 14-03-2015	
2.	Willingdon College, Sangli	2014 to 2015	
3.	Shikshanmaharshi Dr. Bapuji Salunkhe College, Miraj	25-06-2018 to 30-06-2022	
4.	Kisan Veer Mahavidyalaya, Wai	08-08-2022 to Till Today	

5. Orientation / Refresher / Short Term Courses Completed:

Sr. No.	Course	Duration	University / Institute
1	Advances in Monitoring and Modelling of Hydro- Meteorological Hazards using Geospatial Technology and Process based Models	05-12-2022 To 09-12-2022	ISRO's Indian Institute of Remote Sensing
2	Short Term Training Program	18-05-2020 To 22-05-2020	Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai
3	Short Term Training Program	08-06-2020 To 12-06-2020	Department of Instrumentation Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai
4	Refresher Course	05-04-2021 To 10-04-2021	G H Raisoni College of Engineering & Management, Pune
5	Refresher Course	03-05-2021 To 08-05-2021	G H Raisoni College of Engineering & Management, Pune

6. Knowledge and Skill:

- a) Designing and development of an antenna
- **d**) C & C++ Languages

b) MATLAB programing

e) MSCIT and CCC

c) Python

7. Hobbies:

- a) Stargazing (Astronomy)
- **b**) Reading Books

- c) Playing outdoor games
- d) Travelling

8. Awards and honours:

Sr. No	. Fellowship / Award	Year	International / National	Awarding Academic Body / Association
1.	Best Research Presentation Award	2021	National	One Day National Web Conference on "Emerging Trends in Science, Technology and Smart Computing" on 5 th March 2021 at Willingdon College Sangli
2.	Member of Student Council (Tourism Ministry of College)	2009	College	Shikshanmaharshi Dr. Bapuji Salunkhe College, Miraj

9. Research Experience:

- a) I have completed my master's degree project (2012-13) entitled 'Synthesis of MnO₂ by Hydrothermal Method for Supercapacitor Application' under the guidance of Prof. (Dr.) P. S. Patil Sir in Department of Physics, Shivaji University, Kolhapur.
- b) I have completed my doctoral studies in Dept. of Physics Shivaji University Klhapur under the guidance of **Prof.** (**Dr.**) **A. K. Sharma Sir**. The topic of my research is 'Study of Dynamics of Mesosphere over Low Latitude Indian Region by Medium Frequency Radar'. I have been awarded with Ph.D. Degree in Physics by Shivaji University Kolhapur on 25th February 2019. I have 9 years and 7 month of research experience in the field of Space Science and 11 research article in international peer reviewed journals and 03 in national journal. I have work experience of handling radio instrument during my PhD.

10. Research Collaborations:

- 1) National Atmospheric Research Laboratory (NARL), Gadanki, Aadhra Pradesh.
- 2) Indian Institute of Geomagnetism (IIG), Navi Mumbai, Maharashtra.
- 3) Indian Institute of Tropical Meteorology (IITM), Pune, Maharashtra.

11. Post-Doctoral Research Experience:

I have worked as a **Research Associate** at **Indian Institute of Tropical Meteorology (IITM)**, Dr. Homi Bhabha Road, Pashan, Panchawati, Pune, Maharashtra 411008.

12. Google Scholar Citations and h-index:

Citations : **95**h-index : **07**i10-index : **05**

Google Scholar: https://scholar.google.com/citations?user=lpz4VeUAAAAJ&hl=en
Scopus Preview: https://www.scopus.com/authid/detail.uri?authorId=57191878719

13. Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula

(a) Development of Innovative pedagogy

Name of e - Content	Link	
Personal YouTube	https://youtube.com/@herambgaikwad3365	
Channel		
Departmental	https://youtube.com/@departmentofphysicssmdbscm1777	
YouTube Channel		
Blog	https://astrophyhpg.blogspot.com/	
4. Google Classrooms a) B.Sc I – Class Code- bcktj2h		
	b) B.Sc II– Class Code- a543qso	
	c) B.Sc II– Class Code- x2aejqh	
Google Forms	a) Public Awareness Questionnaire on viral spread of Pandemic COVID-19	
	https://forms.gle/CKCNGNxepWR8SHdT6	
	b) Questionnaire on Celebration of 51 Glorious years of	
	ISRO Foundation	
	https://forms.gle/yQsPregBfysBHCNh9	
	c) Quiz competition on the occasion of An International	
	Astronomy Day Celebration	
	https://forms.gle/i9uUhGJvGsb11BAd6	
	d) Questionnaire on World Environment Day (WED) 2020 https://forms.gle/c92V1hz7YgAGXEEAA	
	Personal YouTube Channel Departmental YouTube Channel Blog Google Classrooms	

(b) Design of new curricula and courses

Sr. No.	Design of new curricula /courses
1.	Skill Development Curse in "Design of Solid-State Amplifier"
2.	Certificate course in Design and develop a "Yagi Uda Antenna"
3.	Certificate course in "Programming with MATLAB"

14. Research Project Completed:

Sr. No.	Title	Sanctioned Year	Agency	Year of Completion	Whether PI/ Co-PI	Grant
1	To install and operate the Super-SID Space Weather monitor for coordinated solar studies over tropical Indian stations Wai (17.95° N, 73.89° E) and Miraj (16.82° N, 74.65° E)	April 2023	Stanford University, Stanford, California US	On Going	ΡΙ	Gifted
2	To install and operate the Super- SID Space Weather monitor for solar studies over tropical Indian station Miraj (16.82° N, 74.65° E)	December 2019	Stanford University, Stanford, California US	January 2020	PΙ	Gifted
3	To install and operate Radio Jove 2.0 for Earth, Sun, Jupiter and Galaxy originated radio waves	September 2023	NASA	Undergoing	PΙ	Gifted

15. Observation of Astronomical Events organized:

Sr. No.	Name of Event	Date	
1.	International Space Station (ISS): ZARYA	 i. 10th & 11th April 2020 ii. 10th June 2020 iii. 09th April 2021 	
2.	Hubble Space Telescope (HST)	16 March 2021	
3.	Zero Shadow	07 May 2020	
4.	Milk Moon	07 May 2020	
5.	Lunar Eclipse	06 June 2020	
6.	Solar Eclipse	21 June 2020	
7.	Jupiter and Saturn Conjunction	21 December 2020	
8.	Moon and Mars occultation	17 April 2021	
9.	Super Pink Moon	27 April 2021	
10.	Zero Shadow	07 May 2021	
	https://youtu.be/5McwUInIXH8		
11.	Zero Shadow	07 May 2022	
12.	Lunar Eclipse	08 November 2022	

16. (a) Duties performed in college in addition to teaching:

- 1. Working as a *Member of NAAC Criteria- IV*.
- 2. Worked as Shivaji University 'AAA' Committee Member [College got 'A' grade].
- 3. Working as a *Member of B.Sc.- 1 Admission Committee since 2019-20*.
- 4. Worked as an Organizing Committee Member during One Day National Webinar on "Astronomy (सफर विश्व की)" on 22nd February 2021.
- 5. Worked as a Co-coordinator of *Skill Development Certificate Course in "Design of Solid State Amplifier"* during 1st September to 31st December 2018.

16. (b) Activities / Events organized for students:

- 1. **An Online Quiz Competition** on the occasion of "International Astronomy Day" on 15th May 2021.
- 2. One Day National Webinar on "Astronomy (सफर विश्व की)" on 22nd February 2021.
- 3. **An Online Quiz Competition** on the occasion of **"World Environment Day"** on 5th June 2020.
- 4. Questionnaire on "Celebration of 51 Glorious years of ISRO Foundation" on 15th August 2020.
- 5. **An Online Quiz Competition** on the occasion of "International Astronomy Day" on 2nd May 2020.
- 6. "Public Awareness Week" by sharing an online Quiz on Pandemic COVID-19 on 20-30th April 2020.
- 7. Worked as a "**Team Administrator**" of students participated in '**Start-up Competition**' organized by Vivekanand College, Kolhapur on 31st January 2020.
- 8. Worked as a "Team Administrator" of students participated in 'Innovative Research Ideas Competition' organized by Vivekanand College, Kolhapur on 31st January 2020, which got IInd Prize.
- 9. "Two Day Poster Presentation" on 12-13th April 2022.
- 10. "Two Day Science Exhibition" on 10-11th January 2020.
- 11. "Two Day Poster Presentation" on 10-11th October 2019.

17. Guest Lecture / Expert Talk Delivered:

Sr. No.	Title of Lecture	Date	Organized by
1.	Quantum Physics	26-03-2021	Dept. of Basic Sciences and Humanities, Sanjay Bhokare Group of Institutes, Miraj
2.	Solar and Lunar Eclipse: Conception-Misconception	07-11-2022	Dept. Physics, Kisan Veer Mahavidyalaya Wai
3.	Global Science for Global Wellbeing	28-02-2023	Dept. of Chemistry, Kisan Veer Mahavidyalaya Wai

18. Research Publications:

A] Research Articles Published in Conference, Proceedings, Book Chapters etc.,:

Sr. No.	Title of Article, Authors, DOI, etc.	Name of Journal
1.	"Variation in zonal drift velocity of equatorial plasma bubbles (EPBs) over Kolhapur (16.8 °N, 74.2 °E; 10.6 °N dip lat.)" A. K. Sharma, O. B. Gurav, S. Gurubaran, G. A. Chavan, D. P. Nade, H. P. Gaikwad, R. N. Ghodpage, P. T. Patil and S. S. Nikte	Proceedings of the Emerging Trends in Basic and Applied Sciences (ETBAS), Karmaveer Hire Arts, Science, Commerce and Education College, Gargoti
2.	"Foremost observations of space weather using Super-SID from low latitude station Miraj (16.82° N, 74.65° E, 8.80° dip. Lat)" H. P. Gaikwad, J. L. Bhosale*, K. K. Powar ISBN No. 978-81-948061-2-7	PROGRESSION IN SCIENCE, TECHNOLOGY AND SMART COMPUTING, Willingdon College Sangli
3.	"Diurnal, Monthly and Seasonal Variation in TEC using GPS data over Low Latitude station Hyderabad (17.3850° N, 78.4867° E & geo-mag. 8.79° N)" K. K. Powar, H. P. Gaikwad, J. L. Bhosale* ISBN No. 978-81-948061-2-7	PROGRESSION IN SCIENCE, TECHNOLOGY AND SMART COMPUTING, Willingdon College Sangli

B] Research Articles Published in Peer Reviewed Journals:

Sr.	Title of Article, Authors, volume, issue, page No., year,	Name of	Impact
No.	DOI, etc.	Journal	Factor
1.	"The day-to-day variability in the Mesosphere and Lower	Advances in	2.611
	Thermosphere in low latitudes: A study using MF radar"	Space	
	H. P. Gaikwad, S. Fadnavis, O. B. Gurav, J. L. Bhosale,	Research	
	A. K. Sharma, P. T. Patil, R. N. Ghodpage, M. M. Sutar,	(ASR)	
	G. A. Chavan, A. T. Birajdar, D. J. Shetti		
	Volume 71, Pages 199-215, 2023		
	DOI: 10.1016/j.asr.2022.08.066		

2.	"Seasonal, annual and interannual variability in MLT		
	Quasi Two Day Waves over low latitude region Kolhapur		
	(16.8°N; 74.2°E)"	Advances in	
	H. P. Gaikwad, A. K. Sharma, O. B. Gurav,	Space	2.611
	G. A. Chavan, D. P. Nade, P. T. Patil, S. S. Nikte,	Research	
	G. P. Naniwadekar.	(ASR)	
	Volume 63, Issue 7, 1 April 2019, Pages 2100-2117, 2019.		
	DOI: 10.1016/j.asr.2018.12.029		
	"Diurnal, monthly and seasonal variation of mean winds		
	in the MLT region observed over Kolhapur using MF	Journal of	
	radar"	Atmospheric	
3.	A. K. Sharma, H. P. Gaikwad*, M. Venkat Ratnam,	and Solar-	2.119
	O. B. Gurav, L. Ramanjaneyulu, G. A. Chavan,	Terrestrial	
	S. Sathishkumar.	Physics	
	Volume 169, Pages 91-100, 2018.	(JASTP)	
	DOI: 10.1016/j.jastp.2018.01.028		
	"Airglow imaging observations of some evolutionary		
	aspects of equatorial plasma bubbles from Indian sector"		
	O. B. Gurav, V. L. Narayanan, A. K. Sharma,	Advances in	
4.	R. N. Ghodpage, H. P. Gaikwad , P.T. Patil.	Space	2.611
	Volume 64, Issue 2, Pages 385-399, 2019.	Research	
	DOI: 10.1016/j.asr.2019.04.008.	(ASR)	
	"Potential of IRNSS/ NavIC L5 Signals for Ionospheric		
	Studies"		
	A. K. Sharma, O. B. Gurav, Anindya Bose, H. P. Gaikwad,	Advances in	
5.	G. A. Chavan, Atanu Santra, S. S. Kamble, R. S. Vhatkar.	Space	2.611
	Volume 63, Issue 10, Pages 3131-3138, 2019.	Research	
	DOI: 10.1016/j.asr.2019.01.029	(ASR)	
	"Zonal drift velocity of Equatorial Plasma Bubbles		
	during ascending phase of 24th solar cycle using All Sky	Journal of	
	Imager over Kolhapur, India"	Geophysical	
6.	O.B. Gurav, A.K. Sharma, R.N. Ghodpage, D.P. Nade,	Research:	4.261
	G. A. Chavan, H. P. Gaikwad , P. T. Patil.	Space	
	Volume 123, Issue 12, Pages 10266-10282, 2018.	Physics	
	DOI: 10.1029/2018JA025810		

7.	"Variation in occurrence of equatorial plasma bubbles (EPBs) using All Sky Imager from low latitude station Kolhapur (16.8° N, 74.2° E, 10.6° dip. Lat.)" A.K. Sharma, O. B. Gurav, G. A. Chavan, H. P. Gaikwad, R. N. Ghodpage, P. T. Patil. Volume 60, Issue 11, Pages 2452–2463, 2017 DOI: 10.1016/j.asr.2017.09.014	Advances in Space Research (ASR)	2.611
8.	"Study of ionospheric irregularities from Kolhapur (16.4°N, 74.2°E)" A.K. Sharma, G.A. Chavan, H. P. Gaikwad, O.B. Gurav, D. P. Nade, S. S. Nikte, R. N. Ghodpage, P. T. Patil. Volume 169, Pages 16-22, 2018 DOI: 10.1016/j.jastp.2017.12.019	Journal of Atmospheric and Solar- Terrestrial Physics (JASTP)	2.119
9.	"Study of equatorial plasma bubbles using all sky imager and scintillation technique from Kolhapur station: a case study" A.K. Sharma, O.B. Gurav, H. P. Gaikwad, G.A. Chavan, D.P. Nade, S.S. Nikte, R.N. Ghodpage, P.T. Patil. Volume 363, Issue 83, 2018 DOI: 10.1007/s10509-018-3303-4	Astrophysics and Space Science	1.83
10.	"Dynamics of ionospheric irregularities in increasing phase of 24th solar cycle at Kolhapur [16.4° N, 74.2° E]" A. K. Sharma, G. A. Chavan, O.B. Gurav, H. P. Gaikwad, R.N. Ghodpage, D.P. Nade Volume 60, Issue 10, Pages 2195–2205, 2017 DOI: 10.1016/j.asr.2017.08.002	Advances in Space Research (ASR)	2.611
11.	"Dependence of coherence scales of ionospheric scintillation patterns on magnetic activity" G. A. Chavan A. K. Sharma, O. B. Gurav, H. P. Gaikwad, D. P. Nade, S. S. Nikte, R. N. Ghodpage and P. T. Patil. Volume 32, Pages 59-65, 2017 DOI: 10.1007/s12647-016-0191-3	MAPAN- Journal of Metrology Society of India	1.44

19. Research Papers / Posters presented in National and International Conferences, Workshops and Seminars etc.:

Sr. No.	Title of the National and International Conferences, Workshops and Seminars	Remark
1.	One Day National Web Conference on 'Emerging Trends in Science,	Presented a
	Technology and Smart Computing (ETSTSC-2021)', held on 05th March	paper & won
	2021, organized by Department of Physics, Electronics and Computer	Best Research
	Science, Willingdon College Sangli.	Presentation
		Award
2.	"International Web Conference on Science, Engineering and	Participated
	Technology IWCSET-2020", held during 15-16 th May 2020.	
3.	"15th International Symposium on Equatorial Aeronomy" held during	Presented a
	22-26 th October, 2018 at the Physical Research Laboratory, Ahmedabad,	Poster
	India.	
4.	"Workshop on Satellite Navigation & applications of GNSS/NavIC",	Completed
	held during 5-6 th April 2018 at National Atmospheric Research Laboratory,	Successfully
	Gadanki.	
5.	"International conference on Crystal Ball Vision on Science &	Presented a
	Engineering for Social Upliftment", held during 7-8 th August 2017 at	Poster
	CSIR- National Institute of Oceanography, Goa, India.	
6.	"The First user scientists Workshop on the Applications of Stratosphere	Completed
	Troposphere Wind Profiler Radar", held during 9-10th February 2017 at	Successfully
	Advanced Center for Atmospheric Radar Research, Cochin.	
7.	"National Space Science Symposium- 2016" held during 9-12th February	Presented a
	2016 at Space Physics Laboratory (SPL), Trivandrum.	poster
8.	"2nd URSI- Regional Conference on Radio Science-2015" held during	Presented a
	16-19 th November 2015 at Jawaharlal Nehru University, New Delhi,	paper
	during.	

Declaration:

I hereby declare that all the contents mentioned above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein, immediately. Thanking you,

Place: Miraj Date: 16.03.2024

Dr. Heramb P. Gaikwad