



Dayanand Education Society's
Dayanand Science College, Latur

PERSONAL DETAILS

Name: Dr. Mahadev Baburao Pandge

Date of Birth: 21/11/1984

Phone: 9881340347

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JOB DESCRIPTION

Unique ID :

Position: Assistant Professor

Date of Appointment: 28/02/2023

Date of retirement:

Department: Physics and Electronics

Post-Graduation: Yes

Type of Association (Yes/No)

- 1. Permanent Faculty:** Yes
- 2. CHB:** No
- 3. Adjunct Faculty (Contract):** No
- 4. Visiting Faculty:** NO

EDUCATION QUALIFICATION

Degree	Institute	University	Year of passing	Grade / percentage
Ph.D.	School of Physical Sciences	Swami Ramanand Teerth Marathwada University Nanded	2014	
M. Sc. (Physics)	School of Physical Sciences	Swami Ramanand Teerth Marathwada University Nanded	2007	72.60
B. Sc.	Rajarshi Shahu Mahavidyalaya, Latur	Swami Ramanand Teerth Marathwada University Nanded	2005	76.24
HSC	Mahatma Bashweshwer Mahavidyalaya, Latur	Latur Board	2002	55
SSC	Vidya Vardhini Vidyalaya Udgir.	Latur Board	2000	71.06

WORK / TEACHING EXPERIENCE

Department	Institute/college	University	Tenure/ duration
Physics	Rajarshi Shahu Mahavidyalaya, Latur	Swami Ramanand Teerth Marathwada University Nanded	1 year
Physics (As INSPIRE Faculty)	Dayanand Science College Latur	Swami Ramanand Teerth Marathwada University Nanded	8 years
Physics and Electronics	Dayanand Science College Latur	Swami Ramanand Teerth Marathwada University Nanded	28-2-2023 to till date

COURSES TAUGHT

Department	Institute/college	University	Papers taught
Physics 2017-2018	Dayanand Science College Latur	Swami Ramanand Teerth Marathwada University Nanded	Electronic Devices and its Applications, Theory Course, PG (M.Sc. Physics) (First Semester).
Physics 2020-2021	Dayanand Science College Latur	Swami Ramanand Teerth Marathwada University Nanded	Microprocessor and its Applications, Theory Course, UG (B.Sc. Electronics) (Third semester). Atomic and Molecular Physics, Theory Course, M.Sc. Physics (First Semester). Amplifiers, Theory Course, UG (B.Sc. Electronics) (Third Semester).
Physics 2023-2024	Dayanand Science College Latur	Swami Ramanand Teerth Marathwada University Nanded	Electronic Devices, Theory Course, PG (M.Sc. Physics) (First Semester). Mechanics And Properties of Matter, Theory Course, UG (B.Sc. Physics) (First Semester). Waves and Oscillations, Theory Course, UG (B.Sc. Physics) (Third Semester).
Physics 2014-2015	Rajarshi Shahu College, Latur	Swami Ramanand Teerth Marathwada University Nanded	Electronic Devices and its Applications, Theory Course, PG (M.Sc. Physics) (First semester). Basic Electronics, Theory Course, UG (B.Sc. Electronics) (First Semester).

INDUSTRY EXPERINCE

1. Production Engineer, Messung System, Pune, Maharashtra, India (1.5 years)

OTHERS EXPERINCE

1. A
2. B
3. C
4. D
5. F
6. H ADD AS PER YOUR REQUIREMENT

RESEARCH EXPERINCE

1. INSPIRE Faculty, Dayanand Science College, Latur, Maharashtra, India.
2. SERB Young Scientist, Dayanand Science College, Latur, Maharashtra, India
3. SERB Research Scientist, Dayanand Science College, Latur, Maharashtra, India.

RESEARCH GUIDANCE

Sr. No	Name of Students	Research Topic	Joining Date	Completed Date
1	Nilam Navale	Understanding the Nature of XBONGS	Oct 2017	July 2017
2	Suraj Diwar	Star formation History of most Massive rotationally supported spiral Disk galaxies	Sep 2017	Sep 2020
3	Shankar Ray	Star formation History of most Massive rotationally supported spiral Disk galaxies	July 2020	Till date
4	Priya Biradar	Understanding the origin of Galaxy cluster a X-ray view	July 2020	November 2021

AREA OF SPECIALIZATION

AREA OF SPECIALIZATION : Astrophysics

PROJECTS CARRIED OUT

Sr. No.	Project Title	Major/ Minor	Funding Agency	Fund Received	Date of Completion
1	Understanding the Nature of XBONGS	Major	DST	95,00,000/-	9/9/2021
2	Multiwavelength Investigation of AGN	Major	DST-SERB	26,92,800/-	2/4/2019
3	Understanding the Radio Phoenix using the Chandra X-ray and uGMRT radio Data	Major	DST-SERB	46,00,000/-	27/2/2023
4	Star formation History of most Massive rotationally supported spiral Disk galaxies.	Major	ISRO	19,57,120/-	Ongoing

PATENTS FILLED & GRANTED

Sr. No.	Title of Invention	Publication Date	Granted Date	Application No	National / International

RESEARCH PUBLICATION NO OF PAPERS PUBLISHED

Sr. No.	Name of Authors	Title of the paper	Year of publication, Name of Journal, Volume & Page Nos.	Referred or Non-Referred	ISBN / ISSN No.	Level (Int./ Nat./ State/ Local)	Impact Factor	Active Link
1	2	3	4	5	6	7	8	9
1	Bagchi, J., Sirothia, S. K., Werner, N., Pandge, M. B., Kantharia, N. G., Ishwara-Chandra, C. H., . . . Joshi, S.	Discovery of the First Giant Double Radio Relic in a Galaxy Cluster Found in the Planck Sunyaev-Zel'dovich Cluster Survey: PLCK G287.0+32.9.,	2011, ApJL, 736(1), L8.	Referred	ISSN 2041-8213	International	6	doi:10.1088/2041-8205/736/1/L8.
2	Pandge, M. B., Vagshette, N. D., David, L. P., & Patil, M. K	Systematic study of X-ray cavities in the brightest galaxy in the Draco constellation NGC 6338.	2012, MNRAS 421(1), 808–817.	Referred	ISSN: 0975-7384	International	5	doi:10.1111/j.1365-2966.2011.2035
3	Vagshette, N. D., Pandge, M. B., Pandey, S. K., & Patil, M. K.	Dust extinction and X-ray emission from the starburst galaxy NGC 1482.	2012, New Astronomy, 17(5), 524–532.	Referred	ISSN: 1384-1076	International	2	doi:10.1016/j.newast.2011.12
4	Pandge, M. B.; Vagshette, N. D.; Sonkamble, S. S.; Patil, M. K.	The Chandra observation of cooling flow Galaxy cluster Abell 1991	2013, A & SSci 184–189	Referred	1572-946X	International	2	
5	N.D.Vagshette, M.B. Pandge, and M.K.Patil	Spectral properties of XRBs in dusty early-type galaxies.	2013, New Astronomy 1, 1–7.	Referred	ISSN: 1384-1076	International	2	doi:10.1016/j.newast.20

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6	Pandge, G.C. Dewangan, K.P. Sing, M. K. Patil	A multi-wavelength study of nuclear activity and environment of low-power radio galaxy CTD 86.	2013, MNRAS 435(4), 3385–3394.	Referred	ISSN : 0975-7384	International	5	doi:10.1093/mnras/stt1531
7	Sahu, S. K., Navale, N. R., Pandey, S. K., & Pandge, M. B. (2017).	Optical imaging and spectral study of FR-I type radio galaxy: CTD 086 (B2 1422+26B).	2017, apss 62(9), 158.	Referred	ISSN: 0004-640X	International	1.9	doi:10.1007/s10509-017-3139-3.
8	V.Parekh, P. Padmanabh, M.B. Pandge	A hot X-ray filament associated with A3017 galaxy cluster.	2017, MNRAS 470(3), 3742–3749	Referred	ISSN: 0975-7384	International	5	doi:10.1093/mnras/stx1457
9	Biju, K. G.; Bagchi, Joydeep; Ishwara-Chandra C., H.; Pandey-Pommier, M.; Jacob, Joe; Patil, M. K.; Sunil Kumar, P.; Pandge, Mahadev; Dabhade, Pratik; Gaikwad, Madhuri; Abra ham, Sheelu; Vivek, M.; Mahabal, Ashish A.; Djorgovski, S. G.	‘Zwicky’s Nonet’: a compact merging ensemble of nine galaxies and 4C 35.06, a peculiar radio galaxy with dancing radio jets.	2017, MNRAS 471(1), 617–628.	Referred	ISSN: 0975-7384	International	5	doi:10.1093/mnras/stx1476.
10	Pandge, M. B.; Bagchi, Joydeep; Sonkamble, S. S.; Parekh, Viral; Patil, M. K.; Dabhade, Pratik; Navale, Nilam R; Raychaud-	MACS J0553.4-3342: a young merging galaxy cluster caught through the eyes of Chandra and HST.	2017, MNRAS 472(2), 2042–2053	Referred	ISSN: 0975-7384	International	5	doi:10.1093/mnras/stx2028.

	hury, Somak; Joe, Jacob							
11	Iqbal, A., Kale, R., Majumdar, S., Nath, B. B., Pandge, M., Sharma, P., . . . Raychaudhury , S	Active Galactic Nucleus Feedback with the Square Kilometre Array and Implications for Cluster Physics and Cosmology.	2017, JOAA, 38(4), 68.	Referred	ISSN: 0975-7384	International	5	doi:10.1007/s12036-017-9491-4.
12	Mandal, A. K., Rakshit, S., Kurian, K. S., Stalin, C. S., Mathew, B., Hoenig, S., Pandge, M. B.	Determination of the size of the dust torus in H0507+164 through optical and infrared monitoring.	2019, MNRAS ,475(4), 5330–5337	Referred	ISSN: 0975-7384	International	5	doi:10.1093/mnras/sty200
13	Pandge, M. B., Sonkamble, S. S., Parekh, V., Dabhade, P., Parmar, A., Patil, M. K., & Raychaudhury , S.	AGN Feedback in Galaxy Groups: A Detailed Study of X-Ray Features and Diffuse Radio Emission in IC 1262.	2019, apj, 870(2), 62.	Referred	ISSN: 1538-4357	International	5	doi:10.3847/1538-4357/aa f105
14	Pandge, M. B., Monteiro- Oliveira, R., Bagchi, J., Simionescu, A., Limousin,	A combined X-ray, optical, and radio view of the merging galaxy cluster MACS J0417.5-1154.	2019, MNRAS ,482(4), 5093–5105.	Referred	ISSN: 0975-7384	International	5	doi:10.1093/mnras/sty2937

	M., & Raychaudhury , S							
15	Mirakhor, M. S., Walker, S. A., Bagchi, J., Fabian, A. C., Barth, A. J., Combes, F., . . . Pandge, M. B	Exploring the hot gaseous halo around an extremely massive and relativistic jet launching spiral galaxy with XMM- Newton.	2021, MNRAS, 500(2), 2503–2513.	Referred	ISSN: 0975-7384	International	5	doi:10.1 093/mn ras/staa 3404
16	Pandge, M. B., Sebastian, B., Seth, R., & Raychaudhury , S.	A detailed study of X-ray cavities in the Intr-acluster environment of the cool core cluster Abell 3017.	2021, MNRAS, 504(2), 1644–1656.	Referred	ISSN: 0975-7384	International	5	504(2), 1644– 1656. doi:10. 1093/m nras/sta b384.
17	Pandge, M. B., Kale, R., Dabhade, P., Mahato, M., & Raychaudhury , S.	Giant Metrewave Radio Telescope unveils steep- spectrum antique filaments in the galaxy cluster Abell 725.	2022, MNRAS ,509(2), 1837–1847.	Referred	ISSN: 0975-7384	International	5	doi:10.1 093/mn ras/stab 2945
18	Ray, S., Bagchi, J., Dhiwar, S., Pandge, M. B., Mirakhor, M.,Walker, S. A., &Mukherjee, D.	Hubble Space Telescope Captures UGC 12591: bulge/disc properties, star formation and 'missing baryons'. census in a very massive and fast- spinning hybrid galaxy.	2022, MNRAS, 517(1), 99- 117.	Referred	ISSN: 0975-7384	International	5	doi:10.1 093/mn ras/stac 2683

BOOK CHAPTER PUBLICATION

Sr. No.	Name of Authors.	Title of Chapter	Year of publication	ISBN / ISSN No.	Level (Int. / Nat. / State. / Local)
1	2	3	4	5	6

CONFERENCE / WORKSHOP / SEMINAR ATTENDED

Sr. No	Workshop	Date	Sponsored	Organized BY
1	Online Astronomy Workshop	22 April 2023	Tezpur University	Department of Applied Sciences, Tezpur University
2	Astro-Sat view of AGN Central Engines	18-21 December, 2017	Inter-University Centre for Astronomy and Astrophysics, Pune	Inter-University Centre for Astronomy and Astrophysics, Pune.
3	Extragalactic Relativistic Jets: Cause and Effect	12-20 October 2015.	ICTS-IIA program	ICTS campus, Bangalore, India.

4	Workshop on Galaxies in Absorption	17-20, December, 2012	& IUCAA Pune, during	Swami Ramanand Teertha Marathwada University Nanded.
5	CLOUDY Workshop	17-20, December, 2012	Inter-University Centre for Astronomy and Astrophysics, Pune	Inter-University Centre for Astronomy and Astrophysics, Pune.
6	Astro-Sat DATA Analysis	13-26, November, 2017	Inter-University Centre for Astronomy and Astrophysics, Pune	Inter-University Centre for Astronomy and Astrophysics, Pune
7	Current Trends in Physics Education A Tribute to Albert Einstein	30, December 2006	Science College, Nanded	Science College, Nanded
8	The Fundamental of Quantum Mechanics and Astrophysics"	20-21 December 2006.	Inter-University Centre for Astronomy and Astrophysics, Pune	Swami Ramanand Teerth Marathwada University
9	Chandra/CIAO workshop	23-27, October 2017	National Centre for Radio Astrophysics and Tata Institutes of Fundamental Research, Pune	National Centre for Radio Astrophysics and Tata Institutes of Fundamental Research, Pune.
10	Workshop on Astronomy with Small Telescopes	8-11 December, 2015	Inter-University Centre for Astronomy and Astrophysics, Pune	Swami Ramanand Teerth Marathwada University
11	XIth Marseille Cosmology Conference Galaxy clusters across cosmic time	10-13, July 2017	the Laboratoire d'Astrophysique deMarseille	the Laboratoire d'Astrophysique deMarseille

12	35 th meeting of the Astronomical Society of India (ASI 2017),	6-10, March 2017.	ASI	ASI
13	IAU GA Meeting,	22-30 August 2012	IAU GA Meeting	IAU GA Meeting, China
16	39th COSPAR Scientific Assembly,	14-22 July 2012	the conference of 39th COSPAR Scientific Assembly,	the conference of 39th COSPAR Scientific Assembly,
17	Conference on Observational X-ray Astronomy "X-ray View of Cosmos"	23-25 April 2012.	PRL/ISRO	PRL
18	Conference on Black Hole Astrophysics: Tales of Power and Destruction"	18-22, July 2011.	Winchester, United Kingdom.	Winchester, United Kingdom
19	Frontiers in timing and spectroscopy	13-16, January 2011.	Inter-University Centre for Astronomy and Astrophysics, Pune	Inter-University Centre for Astronomy and Astrophysics, Pune
20	29 th meeting of the Astronomical Society of India (ASI 2011),	23-25, February 2011.	ASI 2011	Pt. R.S., University, Raipur
21	Young Astronomer Meet	3-5 September 2010.	Physical Research Laboratory	Physical Research Laboratory
22	National seminar on recent advances in helio physics.	5-6, February 2010	Dayanand College Solapur	Dayanand College Solapur
23	Indo-French School on Optical Spectroscopy	23-28, November 2015.	Inter-University centre for Astronomy and Astrophysics (IUCAA)	Inter University centre for Astronomy and Astrophysics (IUCAA)
24	The Franco-Indian school on from reionization to large scale structure a multiwavelength approach	11-17, February 2018	Inter-University Centre for Astronomy and Astrophysics, Pune	Inter-University Centre for Astronomy and Astrophysics, Pune

25	European Radio Interferometry School 2011 (ERIS 2011)	5-10, September 2011.	INAF Rimini, Italy	INAF Rimini, Italy
26	Single-dish Radio Astronomy and Radio Science"	12-17, September 2011	Santa Margherita di pula, Italy	Santa Margherita di puls Italy
27	Radio Astronomy School 2011 (RAS 2011)	4-14, July 2011	National Centre for Radio Astrophysics and Tata Institutes of Fundamental Research, Pune	National Centre for Radio Astrophysics and Tata Institutes of Fundamental Research, Pune
28	IUCAA Giravali Observatory Training School	1-30, April 2010	Inter University centre for Astronomy and Astrophysics (IUCAA)	Inter University centre for Astronomy and Astrophysics (IUCAA)

ORIENTATION AND REFRESHER COURSE

1. A. Attended a Refresher course on Astronomy and Astrophysics 2021 which was organized by the Teaching Learning Centre (TLC) of IUCAA from 10 May to 11th June 2021.

TECHNOLOGY TRANSFER (USE OF ICT)

1. A
2. B

FACULTY DEVELOPMENT PROGRAM ATTENDED

1. Attended a Faculty Induction Program which was organized by UGC-MMTTC, JNU (formerly HRDC) through online mode from 22 November to 20 December 2023

INVITED AS RESOURCE PERSON / INVITED TALKS

1. Invited as a resource person in the "Regional Workshop on Research Methodology for Ph.D. students" organized by Dept of Mathematics, Dayanand Science college Latur, during June 6-11, 2016.
2. Acted as a organizing committee member in "International Workshop on LIGO-India (IWLI- 2019)" which was held at Swami Ramanand Teerth Marathwada University, Nanded, during December 15-16, 2019.

AWARDS AND ACHIEVMENTS

1. INSPIRE Fellowship, from the Department of Science and Technology (DST) New Delhi.
2. INSPIRE Faculty Fellowship, from the Department of Science and Technology (DST) New Delhi.
3. Young Scientist Fellowship, from the Science and Engineering Research Board, New Delhi.
4. SERB Research Scientist Fellowship, from the Science and Engineering Research Board, New Delhi
5. I have been awarded "Core Research Grant" from the Department of Science and Technology, Science and Engineering Research Board DST-SERB for three years.
6. I have been awarded "Astro Sat Data Utilization Grant" from India Space Research Organization ISRO for three years.
7. I have been awarded an international "COSPAR" travel grant in support of my participation in High-Energy Astrophysics: "An advance School for Asian Astronomers" (2-13 September 2013 in Xuyi, China) to the value of \$500.
8. I have been awarded an international "IAU" travel grant in support of my participation at the XXVIII IAU General Assembly (20-31 August 2012 in Beging, China) to the value of (euro 1500).
9. I have been awarded an international travel grant in support of my participation at "European Radio Interferometry School 2011 (ERIS 2011)" held in September 5-10, 2011, organized by INAF Rimini, Italy, to the value of (euro 1500).
10. I have been awarded an international travel grant in support of my participation in first Sardinia summer school in astrophysics "Single-dish Radio Astronomy and Radio Science" held at Santa Margherita di pula from September 12-17, 2011, Italy, to the value of (euro 1500).
11. I have been awarded an international travel grant (CSIR +Winchester University) in support of my participation in the Conference on "Black Hole Astrophysics: Tales of Power and Destruction" which was held at Winchester, United Kingdom, UK, during July 18-22, 2011, to the value of (euro 2000).

ADMINISTRATIVE TASK DONE

- 1.
- 2.
- 3.

OTHER CO-CURRICULAR ACTIVITIES.

1. Delivered a guest lecture on the topic entitled "Career opportunities in Astronomy." at Maharashtra Mahavidyalaya Nilanga, organized on 29 February 2024.
2. Hand on activity "Light in Matchbox" carried out for 700 high school students at Canvas International School Kalamb, organized on 9 December 2023.

3. Invited Talk and Hands-on activity carried out for 700 high school students at Canvas International School, Kalamb, organized on 2 December 2023.
4. Delivered a guest lecture on the topic entitled “Career opportunities in Science and Astronomy.” at Canvas International School, Kalamb, organized on 24 November 2023.
5. Invited Talk, given for 2000 high school students at the “Sky Watching Program” (See. Moon, Jupiter, Saturn and Venus), which Canvas International School, Kalamb organized on 11 March 2023.
6. Invited Talk, given for 3000 high school students at the “Sky Watching Program” (See. Moon, Jupiter, Saturn, and Venus), which was organized by STEEM Education Center, Latur from 10 December 2022 to 15 January 2022.
7. Invited Talk, given for 7000 high school students at the “Sky Watching Program” (See. Moon, Jupiter, Saturn, and Venus), which was organized by Zila Parishad and Vishwa Shanti Gurukul, Latur from 10 December 2021 to 15 January 2022.
8. Invited Talk, given for high school students at the “Night Sky Watching Program” (Total Lunar Eclipse), which was organized by Raja Narayanlal Lahoti High School, Latur.
9. Organised Night Sky Observations, for INSPIRE Camp students, Dayanand Science College Latur.
10. Actively participated in the S.R.T.M, University Naded Science outreach program for high school students and explained various astrophysical aspects to the students.
11. Outreach coordinator of Dayanand Science College, Latur, Maharashtra, India.

ADDRESS:

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