


# FacultyProfile

## PersonalDetails

Name	Dr. Archana Anantrao Chaudhari	
Designation	Assistant Professor (Mathematics)	
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## AcademicQualifications

Degree	Specialization	University	Yearof Passing
B.Sc.	Physics, Chemistry, Mathematics.	Dr. B.A. M. University, Chhatrapati Sambhaji Nagar.	1999
M.Sc.	Mathematics.	Dr. B.A. M. University, Chhatrapati Sambhaji Nagar.	2001
Ph.D. (Mathematics)	Mathematics.	Dr. B.A. M. University, Chhatrapati Sambhaji Nagar.	2022
AdditionalQualification(ifany):AdditionalDegree/Diploma /NET/SET			
B. Ed	Science, Mathematics	Dr. B.A. M. University, Chhatrapati Sambhaji Nagar.	2005
DOEACC	Computer	DOEACC society's CCC level	2009

## ProfessionalExperience

Stream	Years	Stream	Years
Teaching	20	Research	--
Extension	--	Administration	--

### Area of Research/Interest

Fractional Differential Equations

## ResearchGuidance

Degree	No.ofStudent & Guided
M.Sc./M.Tech	--
Ph.D.	--

## ResearchAccomplishments (Recent Ten Most Important Publications)

01	Upper and Lower Solutions Method for Fractional Differential Equations with Integral Boundary Conditions	International Journal of Applied Mathematics,	Feb 20, 2020 Vol.33, No. 3, (2020), pp. 479-491. { <a href="https://dx.doi.org/10.12732/ijam.v33i3.8">https://dx.doi.org/10.12732/ijam.v33i3.8</a> }.	Scopus Indexed
02	Upper and Lower Solutions Method for Positive Solution of Generalized Caputo Fractional Differential Equations	Advances in the Theory of Nonlinear Analysis and its Applications	Oct 24, 2020 Vol. 4, no. 4, (2020), 279-291. { <a href="https://doi.org/10.31197/atnaa.org">https://doi.org/10.31197/atnaa.org</a> }.	Scopus Indexed
03	A fixed-point theorem for Hardy-Rogers type on generalized fractional differential equation	Advances in the Theory of Nonlinear Analysis and its Applications	Dec. 2020 4(4):407-420 { <a href="https://doi.org/10.31197/atnaa.767331">https://doi.org/10.31197/atnaa.767331</a> }.	Scopus Indexed
04	Approximate fixed points n linear functional mu, sigma nonexpansive mapping on n Banach spaces	Journal of Mathematical Analysis and Modelling: J Math Anal & Model	Dec. 2020 ISSN 2709-5924	
05	Generalized fractional differential equations by using a fixed-point theorem for generalized contractive type	Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications & Algorithms	Jan. 2021	Scopus Indexed
06	Upper and Lower Solutions Method for Positive Solutions of Psi-Caputo Fractional Differential Equations	Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis (Scopus Indexed)	Jan. 2022	Scopus Indexed
07	Studied on Structural, Infrared and Optical Properties of Cobalt Ferrite Thin Film Grown by Spray Pyrolysis Technique	Advanced Materials Research Trans Tech Publications Ltd, Switzerland	March 2022 ISSN: 1662-8985	
08	Positive Solution for a Class of Caputo-type Fractional Differential Equations	Journal of Mathematical Analysis and Modelling: J Math Anal & Model, Vol. 2, no. 2, (2021), 16-29.	Feb. 2021 ISSN 2709-5924	
09	Fixed Point Results Using New Helping Functions via Caristi Type	Int. Jr. of Contemp. Res. in Multi. Volume 3 Issue 2	[Mar- Apr] 2024 ISSN No: 2583-7397	
10	Modify Conditions of Hardy-Rogers' Fixed Point Theorem	International Journal of Research Publication and Reviews, Vol 5, no 4, pp 4239-4243	April 2024 ISSN 2582-7421	

## Credentials:

Particulars	Numbers	Particulars	Numbers
ResearchArticles	18	PopularArticles	--
Books / Booklets	01	BookChapters	--
Research/Technology Recommendations	--	VarietiesDeveloped	--
Patents	--	Abstracts Published	02
TechnicalPublication	--		

## Significant Achievements(Top Five)

Patent/IP/Technologies/ Varieties/Machineries Developed / Methodologies/ Recommendations	Year
1. --	
2. --	
<b>ExternallyFundedProjects:Implemented/Handled/Assisted</b>	

## Awards/Recognitions (Top Five)

1.Dr. BAMU, Aurangabad topper in B. Sc. (Maths)
2. Dr. BAMU, Aurangabad rank third in M. Sc. (Maths)
3.Ex. Senate Member of Dr. BAMU, Aurangabad
4. Best paper presentation award in National Conference held at Kada Dist. Beed