




## Gangadhar Meher University, Sambalpur (Faculty Profile)

<b>Name</b>	Ashrita Patra			<b>Photograph</b> 
<b>Designation</b>	Assistant Professor			
<b>School</b>	School of Mathematics			
<b>Address (Office)</b>	Gangadhar Meher University, Sambalpur-768004			
<b>Address (Residence)</b>	C/107, DE-Habitat Apartment, SreeVihar, Patia, Bhubaneswar-751024			
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<b>ORCID ID</b>	0000-0002-2909-3066			
<b>Researcher ID</b>				
<b>SCOPUS ID</b>	57192934586			
<b>PubMed ID</b>				
<b>Qualifications</b>				
Degree	Institution	Year	Subject Details	
BA/BSc/BCom	S.G. Women's College, Rourkela	2005	Mathematics	
MA/MSc/MCom	NIT, Rourkela	2007	Applied Mathematics	
MPhil	NA			
PhD	NIT, Rourkela	2014	Fractional Differential Equations	
Any other				
<b>Areas of Interest/ Specialization</b>				
Fractional Calculus, Differential equations, Mathematical Modeling, Numerical Analysis				
<b>Teaching/Research Experience</b>				
Organization/Institution	Designation	Duration	Role	
PIET, Rourkela	Lecturer	1yr. 3 months	Teaching	
REC, Bhubaneswar	Lecturer	1yr. 1 month	Teaching	
KIIT University, Bhubaneswar	Assistant Professor	5yrs. 8months	Teaching and Research	
GM University, Sambalpur	Assistant Professor	7 months	Teaching and Research	
<b>Awards and Honors (Top Five only)</b>				
Got 1 <sup>st</sup> position in all India for Senior Research Fellow in 2013 from Council of Scientific and Industrial Research (CSIR)				
<b>International Collaboration/Consultancy (Top Five only)</b>				
<b>Extra-mural Projects (Give Details)</b>				
Got a Minor Research Project of World Bank under OHEPEE				
<b>Ph. D. Guidance</b>				
Guided ( 1 ), Guiding ( 1 )				

Publications					
Number of Publications:					
Books/Monographs : Total ( 0 ), Last Five Years ( 0 ), Last Three Years ( 0 ), Last One Year ( 0 )					
Book Chapters : Total ( 0 ), Last Five Years ( 0 ), Last Three Years ( 0 ), Last One Year ( 0 )					
Research papers: Total ( 23 ), Last Five Years ( 13 ), Last Three Years ( 7 ), Last One Year ( 3 )					
Reviews: Total ( 11 ), Last Five Years ( 8 ), Last Three Years ( 5 ), Last One Year ( 2 )					
Book chapters: Total ( ), Last Five Years ( ), Last Three Years ( ), Last One Year ( )					
Best Peer/Review Publications (Up to 5)					
1. S. Saha Ray and <b>A. Patra</b> , 2013, “Haar wavelet operational methods for the numerical solutions of Fractional order nonlinear oscillatory Van der Pol system”, <b>Applied Mathematics and Computation</b> (Elsevier),Vol. 220, No. 1, pp. 659-667.					
2. <b>A. Patra</b> and S. Saha Ray, 2014,“Homotopy Perturbation Sumudu Transform Method for solving convective radial fins with temperature-dependent thermal conductivity of Fractional order Energy balance equation”, <b>International Journal of Heat and Mass transfer</b> , <b>76</b> , 162-170.					
3. <b>A. Patra</b> and S. Saha Ray, 2016, “Analysis for fin efficiency of convective straight fins with temperature-dependent Thermal Conductivity of Fractional order Energy balance equation Using Homotopy Perturbation Sumudu Transform Method”, <b>Alexandria Engineering Journal</b> , <b>55</b> , pp. 77-85.					
4. S. Saha Ray and <b>A. Patra</b> . 2014,“Numerical Simulation for Fractional order Stationary Neutron Transport Equation using Two-dimensional Haar wavelet Collocation method”, <b>Nuclear Engineering and Design</b> , <b>278</b> , pp. 71-85.					
5. S. Saha Ray and <b>A. Patra</b> , 2014.“Numerical Simulation Methods for Solving Fractional Neutron Point Kinetic Equations using Multi-step Differential Transform Method”, <b>Physica Scripta</b> , 89, pp. 015204(8pp).					
Paper Presentation in Major Conferences (Up to 5)					
1	Fractional Neutron Point Kinetic equation using Time dependent Reactivity Functions using Collocation method	International Conference on Advanced Mathematical Analysis and its applications, Berhampur Univ.	International (within country)	2020-02-04	
2	Numerical Based solution of Nonlinear Volterra Integral equations using Laplace Decomposition method	4th International Conference on Recent Advances in Mathematical Sciences and its Applications	International (within country)	2020-01-09	
3	Solution of nonlinear fractional partial differential equations using Fractional Complex Transform	National Conference on Recent Advances in Mathematics and Its Applications	National	2018-12-07	
4	Solution of fractional differential equations using transform method	National seminar on Data science with 46th Annual Conference of Odisha Mathematical Society	National	2019-01-19	
5	Solution of Lane Emden type of Equations using Aboodh Transform	International Conference on Advances in Mathematics and Computing 2020	International (within country)	2020-02-07	
Patents (if any)					

Filed: ( 0 ), Accepted: ( 0 )				
<b>Events (Seminar/Symposium/Webinar/Workshop/FDP/Conference etc.) organized in capacity of convener/co-convener</b>				
National: ( 2 ), International: ( 0 )				
<b>Memberships of Professional Bodies/Societies (Up to 5)</b>				
1. Life membership on Odisha Mathematical Society 2. Life membership in Indian Mathematical Society				
<b>Other Details (Academic/Research Related)</b>				
Nil				
<b>Research Matrix [Current]</b>				
Database	Total citations	Total publications	Open Access	h-index
WoS				
Publons				
Scopus	251	21	14	9
PURE				
GS	317	21	14	9
RG	251	21	14	9
ICI				

Ashrita Patra  
(Signature)