Curriculum Vitae

My teaching and research interests are in the area of Process Metallurgy. For research, I apply various physical and mathematical modeling techniques and data analysis, particularly in the area of iron and steel making processes. During my graduate studies I developed various mechanistic models to characterize steelmaking process units using computational fluid dynamics and mass and population balances. During my professional experience, I developed CFD models for enhanced iron ore recovery and to assess dust and fume



emission characteristics in EAF and BOF steel making shops. I also undertook analyses of large historical operational data to deduce optimal addition patterns during BOF operation and to deduce cooling characteristics of torpedo fleet in an integrated steel plant.

1.	Name:	Anand
2.	Designation:	Assistant Professor
3.	Office Address:	MME/NAB/103
4.	Telephone (Direct) (Optional):	
	Telephone :	
	Extn (Optional):	
	Mobile (Optional):	7685933853
5.	Email (Primary): anands@nitt.edu	Email (Secondary) :
6.	Field(s) of Specialization:	Modeling of reactive and transport processes in Extractive Metallurgy

7. Employment Profile

Job Title	Employer	From	То
Consultant	M.N. Dastur & Co. Pvt. Ltd	May 2017	Oct 2022

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/	Subjects
			Grade	
PhD	McMaster Univ. Hamilton, Canada	2016	3.5/4	Materials Science & Engg.
M.Tech	IIT Kanpur, India	2008	9.3/10	Metallurgical & Materials Engg.
B.E	GCE Salem, India	2006	80%	Metallurgical Engg.

Higher Secondary	Govt. Boys School, Ch- 44, India	2002	90%	Maths, Physics, Chemistry
Matric	Holy Angels Matric, Ch-44, India	2000	85%	

9. Academic/Administrative Responsibilities within the University

Position	Position Faculty/Department/Centre/Institution		То

10. Academic/Administrative Responsibilities outside the University

Position	Position Institution		То

11. Awards, Associateships etc.

Year of Award	Name of the A	Awa	arding	Organiz	zation	
2014	Jerry Silver Award fo	Associati	on of	Iron	and Steel	
	in AIST 2013	Technolo	gy, U	SA		
2013	Dante Cosma	Memorial	School	of	Grad	Studies,
	Scholarship	McMaste	er Univ	. Canad	la	
2010	Stelco McMaster Scholarship		School	of	Grad	Studies,
			McMaste	er Univ	. Canad	la

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii)Projects guided at Postgraduate level
- (iv)Other contribution(s)
- 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status	
The of Project		From	То	Ongoing/ Completed	

15. Number of PhDs guided

Name of the PhD	Title of PhD	Role(Supervisor/ Co-	Year of
Scholar	Thesis	Supervisor)	Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date	Title of	Level of Event	Role (Participant/	Event Organized by	Venue
(s)	Activity	(International/	Speaker/		
		National/	Chairperson,		
		Local)	Paper presenter,		
			Any other)		
2010	Conf	Intl	Participant	AISTech, USA	Pennsylvania
2017	Conf	Intl	Speaker	Science & Tech of	IIT Kanpur
				Iron and Steel making	
2019	Conf	Intl	Speaker	ESTAD, Germany	Dusseldorf

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event	Date (s)	Role	Venue
	(International/			
	National/ Local)			

18. Invited Talks delivered

Торіс	Date	Inviting Organization
Simulations of Slag Entrainment in Ladle	Dec 2017	STIS 2017, IIT Kanpur, India
Metallurgy		
Physical and Mathematical modeling in	March 2017	ICAMMM-17, GCE Salem, India
Ladle Metallurgy		
Introduction to Modeling Ferrous Process	April 2022	MME, NIT Tiruchirapalli
Metallurgy	-	_

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life	Organization	Membership No. with date
Member)		

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) <u>Refereed Research Journals</u>:

Author(s)	Title of Paper	Journal	Volume (No.)	Page	Year
Anond	Lucrosson and of England	Inca & Ctool	(140.)	numbers	
	Efficience of Encipier	If on a Steel			
Senguttuvan,	Efficiency of Emissions	Review	<i>C</i> 1	1.4	2020
Saikat Chatterjee	Capture in Steel Melt Shops		64	1-4	2020
	through a Robust Simulation				
	Framework.				
Arnab Adak,	Optimization of	AIST			
Achintya Das,	Dephosphorization Practice	Transactions,			
Saikat Chatterjee,	in BOF Shops Using	Iron & Steel	April	74-80	2010
Anand	Advanced Analytics	Technology	Арт	/+-00	2017
Senguttuvan,					
Atanu Mukherjee					
Anand	Modeling of Slag	ISIJ			
Senguttuvan,	Entrainment and Interfacial		57	1962-	2017
Gordon A Irons	Mass Transfer in Gas Stirred		57	1970	2017
	Ladles				
Gordon A Irons,	Recent Advances in the	ISIJ			
Anand	Fluid Dynamics of Ladle				
Senguttuvan,	Metallurgy		55	1-6	2015
Kumar					
Krishnapisharody,					
Anand S, K.	Metallurgical Performance	AIST			
Rajasekar, D.	of Different Slab Casting	Transactions,			
Sathish, Joy	Tundish Designs: Modeling	Iron & Steel	12	1-10	2015
Dutta, Dipak	and Industrial-Scale Trials	Technology			
Mazumdar					
Anand	Model Studies on Slag	AIST			
Senguttuvan,	Metal Entrainment in Gas	Transactions,	11	220 241	2014
Gordon A Irons	Stirred Ladles	Iron & Steel		230-241	2014
		Technology			

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of	Title of the	Page	Conference	Venue	Year
	Abstract/	Proceedings	numbers	Theme		
	Paper					

Anand	CFD analysis	4 th ESTAD.	_	Steel	Dusseldorf.	2019
Senguttuyan.	of Capture	2019		Technology	Germany	
Saikat	Efficiency of			85	J	
Chatteriee	Secondary					
5	Off-gas in an					
	EAF shop					
Anand	CFD	AISTech	701-711	Iron and	Pittsburgh,	2019
Senguttuvan,	Simulation of	Conference		Steel	USA	
Ganesh	Dry Density			Technology		
Chalavadi,	Separation of					
Saikat	Iron Ore Fines					
Chatterjee,						
Achintya Das						
Anand	Simulations of	AISTech	1453-	Iron and	Indianapolis,	2014
Senguttuvan,	Slag Metal	Conference	1464	Steel	USA	
Gordon A	Entrainment in			Technology		
Irons	Ladle					
	Metallurgy					
Anand	Model Studies	AISTech	1231-	Iron and	Pittsburgh,	2013
Senguttuvan,	on Slag Metal	Conference	1241	Steel	USA	
Gordon A	Entrainment in			Technology		
Irons	Gas Stirred					
	Ladles					

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of	Year of	ISSN/ISBN
		Publishers	Publication	Number