

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile:

N. Anantharaman was born in Chennai, Tamil Nadu, India, on 8th May 1955. He obtained his B.Tech. , Chemical Engg., from REC, Trichy, Tamil Nadu, India, in 1977 and M.E., in Chemical Engg., from IISc., Bangalore, Karnataka, India, in 1979. He got his Ph.D for his thesis “Heat and Mass transfer studies in Fluidized bed drying” in 1985 from Madras University. Having started his career at REC, Trichy as a senior Research fellow in 1979, he became lecturer in 1981 at RECT (NITT) and rose to the level of PROFESSOR in 2001 and subsequently, DEAN (Academic) in 2010 in NITT. Currently he is Professor (HAG) in chemical engineering Department. Ever since, he joined in teaching profession, he has offered a number of courses both at Under graduate and Master's level. He was involved in offering laboratory courses. He has so far guided 7 scholars for Ph.D and was a Ph.D co-guide for 4 scholars. He has Co-authored three books, Process Calculations (2003, 2011), Elements of Mass transfer Part-1 (2005) and Mass Transfer Theory and Practice (2011), all published by PHI Learning Centre, New Delhi. To his credit he has more than 120 publications in International/National Journals and Conferences. He has also delivered lot of technical lectures at different organizations and Institutions. N. Anantharaman is a life Fellow of Institution of Engineers (India) (Fellow No.F-017549-4/CH) , Indian Society for Technical education(LM 3133), New Delhi, Life member of Indian Institute of Chemical Engineers(LM 24493), Kolkata and Life member of FMFP, Mumbai.

He was so far involved with five projects of AICTE/MHRD either as Principal or as Co-investigator. His paper on Removal of Chromium (VI) from aqueous solutions by Emulsion liquid membrane, presented in CHEMCON 2003 held at RRL, Bhubaneswar in Dec 2003 was awarded the M A Shukla Prize for II best paper in 2004 in the ICh E annual session at Mumbai. He has been serving in the Executive council of IE (India) Tiruchirappalli local Centre for the past 14 years. He is also member of the Board of studies in Chemical Engineering of various Universities and chaired technical sessions in national conferences. He played a key role establishing an endowment called “Dr. S.H. Ibrahim Memorial fund” to promote academic excellence in chemical engineering at NIT Tiruchirappalli. He was awarded the best teacher by NIT Tiruchirappalli in 2008. In recognition of his outstanding professional contributions and contribution to National Institute of Technology, Tiruchirappalli, RECAL, the alumni association of RECT/NITT conferred on him “Golden Jubilee Distinguished Alumni Award for serving personnel at NIT Tiruchirappalli” in July 2014. He also won the ‘Best Engineer award’ from Institution of Engineers (India) TLC in Sept’ 2015. He was also recognized for contributions in Research publications during the year 2016-17 in the Institute Day 2017, for consultancy projects in 2017-18 in the Institute day 2018 and for citations in the Institute day 2019 at NIT Tiruchirappalli.

Currently, he is Head in charge of Energy and Environmental Engg Department

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	(RECT)Madras University	1985		Heat and Mass transfer studies in Fluidised bed drying
M.E	IISc	1979	Distinction	Chemical Engg
B.Tech	(RECT) Madras University	1977	I Class with Distinction	Chemical Engg
PUC	Madras University	1972	I class	English, Tamil, Maths, Physics and Chemistry
SSLC	Board of secondary Education, Madras	1971	74.2%	English, Tamil, Maths, Science, History & Geography, and elective Mathematics

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
1	Member of Sports committee	1984	2002
2	Served as Stock verification officer for library and some of the departments of this Institution	1984	1990
3	Member of the organizing committee of TIES .	1987 and 1994	
4	Served as a member of the college Academic council	1995.	
5	Member of the committee constituted to examine the Faculty promotion policy	1998-99	
6	Served as Staff – in – charge of Alumni Club for 2 years.	1998	2000
7	Served as a member of the college Resource facilitating group		
8	Served as a member of the MIS group		
9	Served as a member of the college Planning commission		

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10	Different committees of Festember	2000	2005
11	Member of the Prizes and certificates committee for Institute annual day/college annual day	Since 2000	
12	Member of the Tamilnadu Engineering admissions committee for Counseling at REC centre , Tiruchirappalli since 2001 and one of the co-ordinators for Anna University admission process in 2004 and 2005 at NIT Trichy.	Member 2001-2005 Co-ordinator in 2004,2005	.
13	Convener for Sports from October 2002 to 31.5.2007	Oct 2002	May 2007
14	Member of the Rules framing committee for NITT, appointed by Board of Governors of NITT	2004	2005
15	Member of the AIEEE counseling committee	2004-10	
16	Committee member- PRAGYAN	2005	
17	Associate Dean (Students)	Dec 2005	May 2007
18.	Member of the Quarters allotment committee	2005	2006
19	Convenor for PRAGYAN (Inter collegiate Technical festival)	Jan 2006	May 2007
20	Convenor for NITTFEST(Intra-departmental cultural festival)	Jan 2006	May 2007
21	Convenor for Festember (Inter collegiate Cultural festival)	July 2006	May 2007
22	Head, Chemical Engg Dept	27.10.2006	26.11.2009
23	Chairman –Class Committee /DPEC for M.Tech Plant Design/Chemical Engg	2007-2008 & 2013-2015	
24	Chairman –Class Committee M.Tech (PCI)	2009-10 and 2010-11	
27	DEAN (ACADEMIC)	15.9.2010	14.9.2012
28	Convenor of the Common M.Tech admission committee for 2011 and centre-in-charge	2011	
29	Center –in-Charge at NITT for AIEEE 2011 counseling organized by CCB 2011,CCB 2012	2011,2012	
30	Centre-in-charge for M.Tech admission	2012	
31	Professor in charge of Guest lectures	2013	

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	and III cell	onwards	
32	Chairman PG Admission committee	Since 2013	
33	Chairman –DPEC for UG projects	2014-2015	
34	Programme committee Chairman for convocation	2014, 2015,2016	
35	Dept. Administrative committee chairman for Chemical Engg Dept. & Energy and Environment Dept	Since 2015	
36	Member of the Academic reforms committee	2015	
37	Member of the committee on Formative assessment	2015	
38	Convener- Student and Industry Interface	since 2015	
39	Chairman- Ph.D seat matrix committee	2015 onwards	
40	Member of IoT lab (Started by 1981batch of Alumni)	2015 onwards	
41	Chairman- Senate sub-committee to Study PG programmes (based on NBA committee recommendations)	2016	
42	Member of the Smart India Hackathon, 2019 committee (2-3, March 2019)	2019	
43	Member of the Smart India Hackathon, 2019 Hardware edition. (8th to 12th July 2019)	2019	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
SECRETARY	RECAL (Alumni Association of RECT/NITT)	2001	2006
Member	Establishment of RECAL Foundation	2004	2006
Founder Member	“Dr. S.H. Ibrahim Memorial fund”. The fund is worth about Rs.7 lakhs	2008 onwards	
Executive member (Chemical Engineering Division,	Institution of Engineers-Tiruchirappalli Local center,	2000 onwards	

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Expert member	Of UGC For extension of Autonomous status to CIT Coimbatore	2009	
Governing council member	Roever Engineering College, Perambalur.	2009	
Academic council member	AnnaUniversity of Technology, Coimbatore	2009	2011
Governing council member	Adhiyamaan College of Engg. (Autonomous), Hosur, affiliated to Anna University of technology, Coimbatore	2009	2011
Academic council member	Adhiyamaan College of Engg. (Autonomous), Hosur,affiliated to Anna University of technology, Coimbatore	2011	2014
Member BoS	<ul style="list-style-type: none"> • PEC, Pondicherry, • CECRI, Karaikudi • CIT Coimbatore, • Kongu Engineering college, Perundurai • Adhiyaman College of Engineering • Amrita Vishwa vidyapeetham, Ettimadai • SASTRA University, • SRM University, • Periyar Maniammai University 	Since 2004 for different tenures	
Expert member for Staff selection	CIT, Adhiyamaan College of Engg. (Autonomous), Hosur and Periyar maniammai University		
Governing council member	Anjalai Ammal Mahalingam Engineering college, Kovilveni	Since 2015	
Board of studies	Anna University, Chennai	Since 2016	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1989	Innovative work award (During my tenure- ship as Secretary, ISTE received an award in 1989 for innovative work of publishing News letter.)	ISTE, New Delhi
2004	M.H. SHUKLA II Prize, 2004 for the best Technical paper presented in the 56 th Annual session (CHEMCON 2003)	IChE, Kolkatta

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2007-2008	Best Department at NITT (During my tenure as HoD)	NIT-T
2008	Best Teacher Award at NITT	NIT-T
2014	Golden Jubilee Distinguished Alumni award for serving personnel at NITT	RECAL+NIT-T
2015	Best Engineer Award	IE(I), TLC, Tiruchirappalli

12. Fellowships

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

13. Details of Academic Work

(i) Curriculum Development :

- A member of the conclave on **Academic Reforms** –Innovation, practice and Roadmap held on 28th -29th April 2015 at NIT-T. Involved with the planning of activities and co-ordinated the interaction of Alumni and Industries with the faculty in development of curricula. As a member of the BoS at the Institute level, played an effective role in the design of curricula for Chemical Engineering Department.
- As a Professor in-charge of **Guest lectures and III Cell** at the Institute, played a key role in the implementation of Dr. Anil Kakodkar’s committee recommendations since 2013(*MHRD Lr.No. 33-8/2012/TS-III dt. 9.11.2012 requiring 25% of lectures to be delivered by Industry experts*).

(ii) Courses taught at Postgraduate and Undergraduate levels

Post-graduate:

- 1) Advances in Fluidization Engineering
- 2) Energy conservation
- 3) Process Economics and Management
- 4) Air quality management
- 5) Computational techniques in Chemical Engineering

Under graduate:

- 1) Introduction to chemical Engineering
- 2) Environmental Engineering
- 3) Energy Engineering
- 4) Fertilizer Technology
- 5) Material Technology
- 6) Transport Phenomena

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- 7) Mass Transfer-I
- 8) Mass transfer-II
- 9) Process Engineering Economics
- 10) Fluidization Engineering
- 11) Process Calculations
- 12) Mass Transfer Laboratory
- 13) Heat transfer Laboratory

(iii) Projects guided at Postgraduate level

M.Tech.

Sl. No	Name of the Thesis	Year
Plant Design		
1.	Studies on Fluidized bed drying	1990
2.	Studies on Fluidized bed drying with Internals	1993
3.	Studies on RTD in semi fluidized beds	1994
4.	Studies on Three phase fluidization	1995
5.	Studies on Hydrodynamics of Three phase phase fluidization	1999
6.	Treatment of Dairy water using three phase fluidization	2000
7.	Studies on Three phase fluidization and treatment of Distillery effluents	2004
8.	Studies on Semi- fluidization and treatment of Distillery effluents	2004
9.	Effluent treatment by three phase fluidized bed bio-reactor	2005
10.	Effluent treatment by Semi fluidised bed bioreactor	2005
11.	Residence time distribution for corn and paddy in Rotary dryer	2005
12.	Studies on Electro coagulation technique for the treatment of Tannery effluents	2006
13.	Studies on Magnetically assisted fluidized beds	2006
14.	Studies on Three phase fluidization for the treatment of Dairy effluents	2006
15.	Heavy Metal ions Removal using Foam fractionation	2007
16.	Three phase fluidization for the treatment of Dairy effluents	2007
17.	Experimental studies and Simulation of three phase fluidized bed reactor Using CFD	2008
18.	Fluidized bed dryer with internals	2009
19.	Studies on Photo degradation of Phenol by using UV and visible light & Energy auditing in iol fired boiler in M/s TDCL, trichy	2009
20.	Simulation of absorption column for capture of CO ₂ from flue gas	2009
21.	Air and water interaction	2009
22.	An experimental Investigation on Drying of raagi in Fluidized bed dryer with internals	2010
23.	Hydrodynamic studies in Fluidised beds with Disc promoters	2011
24.	Carbondioxide sequestration with Hydrotalcite compounds)	2011
25.	Carbon Dioxide Sequestration Using Adsorbents	2012
26.	Hydrodynamic Studies of Fluidised Bed With Internals	2012

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27.	Phenol Degradation Using Electrocoagulation and removal by adsorption	2013
28.	Hydrodynamic Studies of Fluidized Bed With Internals	2013
29.	Use of Internals in the enhancement of heat transfer coefficient in double pipe heat exchanger	2013
30.	Hydrodynamic studies and modeling of Fluidized bed systems with internals by ANN	2014
31.	Treatment of Phenolic wastes by Electrocoagulation and Photolysis	2014
32.	Heat transfer enhancement studies in double pipe heat exchangers	2015
33.	Hydrodynamic studies and modeling of Fluidised bed systems with internals by ANN and CFD	2015
34.	Hydrodynamic studies and modeling of Fluidised bed systems with novel internals by ANN and ANFIS	2016
35.	Claus Furnace Mechanism Reduction And Simulation Using Ansys Fluent and Steam energy optimisation	2016
36.	Studies on Chromium removal using activated charcoal from Juliflora	2017
37.	a) Biodiesel production from Pongamia oil b) Pyrolysis of Juliflora wood	2017
38.	Biodiesel production from Pongamia oil using Zinc impregnated CaO	2018
39.	Treatment of textile mill effluents using Microwave activated carbon	2018
40.	Adsorptive removal of Lead from Aqueous solutions using poly sulphone capsules containing Magnetite	2019
41.	Hazard and operability study of an Oil and Gas processing facility	2019
Energy Engg.		
42.	Waste heat recovery by L.P. economizer in Thermal power plants – B.K. Manmath	(1994)
43.	Energy savings in heat transfer furnace	(1995)
44.	Waste heat recovery in copper extraction plants	(1996)
45.	Co-firing Petroleum coke in pulverized coal fired boilers – A study	(2000)
46.	Energy audit in walking beam furnace at SSTP BHEL, Trichy	(2001)
47.	Energy audit in Rotary hearth furnace at SSTP BHEL, Trichy	(2001)
48.	Energy Audit in Chemical Engineering Department and analysis of Three phase inverters using switching flow-graph modeling Technique	2010
49.	Bio oil from Agro-residues by Pyrolysis	2011
50.	Bio oil from Agro-residues and Biosorption Of Methylene Blue From Aqueous Solution Using Activated rice straw and rice straw char	2012
51.	Biodiesel production and engine studies using waste cooking oil	2014
52.	Energy audit in a Textile mill	2014
53.	Development of DC micro-grid using Solar PV panel	2014

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54.	Biodiesel production using Pongamia oil using heterogeneous catalysis	2015
55.	Pinch Analysis of heat exchanger of a distillation unit	2015
56.	Tube Side Enhancement of Shell and Tube Heat Exchangers through Spiral Tube Inserts	2016
57.	a)Study the performance of single slope passive solar desalination unit and different factors affecting its performance and productivity b)Experimental studies on performance of hybrid solar still using Fresnel lens collector and flash chamber to enhance the productivity of still	2016
58.	Energy Audit	2016
Process Control and Instrumentation		
59.	Micro-processor based Energy Measurement systems	1994
60.	Control of Heat exchanger	2011
61.	Modeling of a membrane process and Controller Performance Monitoring	2014
62.	Modeling and control of a ultrafiltration process	2015

(iv) Other contribution(s)

Currently offering a section on “Research Methodology course” for Research scholars. Course deals with types of research, ethics, thesis and paper writing.

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Modernization of Unit operations Laboratories	MHRD	1999	2000	completed
Studies on Emulsion Liquid Membrane Extraction	MHRD	2004	2006	completed
Modernization of Separations Laboratory	MHRD	2006	2007	completed
Studies on phenol removal using RTIL impregnated micro-capsules	DST	2010	2011	completed
Continuous Bio-diesel production using heterogeneous catalyts	CSIR	2010	2013	completed
Miniaturized compact solar concentrators for water desalination/purification	DST-UKIERI	2015	2017	ongoing

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15. Number of PhDs guided (7+4)

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
S.K. MasudHossain	Physico-Chemical Studies on Lignin Bio-degradation of Ligno-cellulosic Agro-residues for Paper industries.	Supervisor	2006
Mr. Arul Gnana Raj	Heat and Mass transfer studies in Solid waste	Supervisor	2008
S. Nithya	Intelligent control in Process plants	Supervisor	2009
N.S. Badrinarayana	Studies on electrochemical Methods of treatment of Industrial effluents	Supervisor	2009
S.M. Girirajkumar	Controller tuning for various process systems using Non-traditional optimization techniques	Supervisor	2010
R. Dhanuskodi	Heat Transfer Studies With Supercritical Water In Smooth Vertical Tube	Supervisor	2015
Y. Lukka Thuyavan	Ultrafiltration and modeling studies of cheese whey effluent and lake water via Polyethersulfone-metal oxide embedded mixed matrix membranes	Supervisor	2017
T.Raja	Experimental and Simulation studies on Jet Mixers.	Co- Supervisor	2009
M. Arul Mozhi	Removal of Metal ions from Aqueous solutions and Industrial effluents by Foam separation	Co- Supervisor	2009
S. ShanumugaPriya	Studies on Photolysis of Phenol	Co- Supervisor	2010
Harsh Srivatsava	A Study of preparation and characterization of modified PVDF membrane by dips process for the treatment of industrial effluents	Co- Supervisor	2012

Number of MSs guided (2)

Name of the MS Scholar	Title of MS Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Mr. Santhosh Raaj S	Evaluation of combustion characteristics of coal blends for boiler design	Supervisor	2017

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Ms. Vidya V	Modelling of solids distribution in a CFB riser with pant-leg structure using macroscopic model and CPFD approach	Supervisor	2019
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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

a) Short term courses attended:

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
1.12.1980 to 14.12.1980	Recent trends in Liquid-Liquid extraction (UGC)	National	Participant	Chemical Enggg Dept., AC Tech, Anna Univ.	AC Tech Chennai
3.6.1985 to 15.6.1985	Magneto-hydrodynamic power generation (ISTE)	National	Participant	RECT	NIT (REC), Tiruchirappalli
14.4.1986 to 25.4.1986	Computer aided design of Heat Exchangers(QIP)	National	Participant	Chemical Engg Dept., IISC	IISc, Bangalore -12
20.1.1997 to 25.1.1997	Performance appraisal and development systems (PADS)(ISTE)	National	Participant	ISTE-RECT	NIT (REC), Tiruchirappalli
23.3.1998 to 28.3.1998	Process control and Instrumentation – Theory and Lab.	National	Participant	Chemical Engg Dept., RECT	NIT (REC), Tiruchirappalli
12.5.2003 - 16.5.2003	Modeling, simulation and Analysis of Enhanced Distillation Processes (QIP)	National	Participant	Chemical Engg Dept, RECT	IIT Madras, Chennai
22.9.2003 – 27.9.2003	Interfacial Fluid Dynamics (DST)	National	Participant	Chemical Engg Dept., IISc	IISc, Bangalore

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b) Workshops attended:

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson Paper presenter, Any other)	Event Organized by	Venue
21.10.2000	ISO 14000 – Environmental Management Systems	National	Participant	Institution of Engineers (I) TLC	BHEL/Trichy
20.10.2001	Occupational Health and Safety Management OHSAS 18000 standards	National	Participant	Institution of Engineers (I) TLC	BHEL/Trichy
22.05.2004	Energy conservation in Industries	National	Participant	Institution of Engineers (I) TLC	SRM/Trichy
25.07.2004	Recent Trends in Industrial Effluent treatment	National	Participant	AICTE / Annamalai University	Annamalai University
4.2.2005 – 5.2.2005	Virtual Instrumentation	National	Participant	NIT, Trichy-15	NITT
12.11.2005- 13.11.2005	Role of Environmental Engineers in sustainable development	National	Participant	Institution of Engineers (I) TLC	NITT
29.02.2008	Multivariable control systems	National	Participant	TEQIP/NITT	NITT
13.12.2008.	Sustainable Technologies for future.	National	Participant	TEQIP/NITT	NITT
3.2.2012 – 4.2.2012	Super critical technology for Power generation	National	Participant	ESCI, Hyderabad	ESCI, Hyderabad

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C) Training Programmes

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson Paper presenter, Any other)	Event Organized by	Venue
5.1.2006 to 7.1.2006	Preparing for Challenges ahead	National	Participant	Administrative staff college, Hyderabad	Trichy
27.4.2006 – 26.5.2006	TEQIP Training- Chromatographic Separations	National	Participant	NTU, Singapore	NTU Singapore
10.11.2006 - 11.11.2006.	Team Building and Leadership	National	Participant	MMA	Chennai
2.10.2008 – 4.10.2008	Seven Habits of Highly successful people	National	Participant	Franklin-Covey	Munnar
7.9.2009	Intellectual Property and Innovation Management in Knowledge Era.	National	Participant	NITT and NRDC	NITT
30.11.2010- 2.12.2010	Grow Diesel	National	Participant	Grow Diesel climate care council,	SurajKund

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Novel Separation techniques ISTE-Workshop	National	Nov 1999	Co-cordinator	REC-T (NIT-T)
STTP on “Safety and Environment Management – Emerging Trends (AICTE- ISTE)	National	June 2003	One of the co-ordinators	REC-T (NIT-T)
STTP on “Emerging trends in Energy management and Non-conventional Energy SEEMNET 2004 (AICTE- ISTE)	National	Nov-Dec 2004	One of the co-ordinators	NITT
STTP on Environment, Safety and Energy Management, RASEEM 2007	National	5.2.2007 to 9.2.2007	One of the co-ordinators	REC-T (NIT-T)
National conference on Safety Environment and Energy Management (SEEM 2004)	National conference	June 2004	One of the co-ordinators	NIT-T
Workshop on Process controls and Instrumentation	National	19-08-1993 to 21-08- 1993	One of the co-ordinators	NIT-T
Workshop on Process controls and Instrumentation (IE sponsored)	National	14.03.1999.	Org committee member	NIT-T
TEQIP Sponsored Workshop on Safety and stress management	National	08-12-2006	One of the co-ordinators	NIT-T
TEQIP Sponsored Workshop on Environment and Hygiene	National	09-12-2006	One of the co-ordinators	NIT-T
TEQIP Sponsored Workshop on Microreaction technology for process intensification	National	11.01.2008	One of the co-ordinators	NIT-T

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TEQIP Sponsored Nanomaterials Characterization and their Process Applications	National	28.02.2008	One of the co-ordinators	NIT-T
Remediation for Clean and Green Environment	National	30.11.2012 – 01.12.2012	One of the co-ordinators	NIT-T
TEQIP Sponsored work shop on Energy conservation- Scope and Options	National	24.01-2014	One of the co-ordinators	NIT-T
TEQIP Sponsored Workshop on Pressure vessels and Piping	National	3.7.2014 to 4.7.2014	Co-ordinator	NIT-T
TEQIP Sponsored workshop on Making Indian Engineering Education-World Class	National	15-09-2014	One of the co-ordinators	NIT-T
TEQIP Sponsored workshop on Energy Conservation And Alternative Options”	National	20.05.2016	One of the co-ordinators	NIT-T
TEQIP Sponsored workshop on “Skill development for young Engineers to reform the core sector – Vision 2025”	Local	15.9.2016	Co-ordinator	NIT-T
Engineer’s day celebrations of IE(I) Tiruchirappalli Local centre	Local	2009,2014, 2016	Convenor	SASTRA/ NITT

18. Invited Talks delivered (At NITT and Outside)

Sl.No	Name of the topic	Programme	Date	Organization
1.	Air and Noise Pollution	Environmental awareness programme as a part of employees education in ISO1400 certification	1998-99	BHEL, Trichy
2.	Renewable Energy	ISTE sponsored school	1986	RECT

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3.	Renewable Energy	ISTE sponsored school	1989	RECT
4.	Downstream processing	ISTE sponsored school	1990	RECT
5.	Environmental Protection	Special lecture	26.07.1989.	Institution of Engineers (I), Tiruchirappalli local center
6.	Global warming	World environment day program	5.6.1991.	Institution of Engineers (I), Tiruchirappalli local center
7.	Process Hazard management	Special lecture	19.11.1996	Institution of Engineers (I), Tiruchirappalli local center
8.	Engineering college counseling- 'Way to approach'	Special lecture	21.07.2000	Institution of Engineers (I), Tiruchirappalli local center
9.	Pollution control- An Overview	Work shop on ISO 14000	20.10.2000	Institution of Engineers (I), Tiruchirappalli local center
10.	Information on Engineering college counseling	Special Lecture	3.7.2001	Institution of Engineers (I), Tiruchirappalli local center
11.	Role of Chemical Engg in the next decade	IICHe students chapter	23.2.2002	Dr. NNCE, Tholudur
12.	Information on Engineering college counseling	Special lecture	27.5.2002	Institution of Engineers (I), Tiruchirappalli local center
13.	Environmental awareness	Environmental awareness Assn program	19.7.2002	Dr. NNCE, Tholudur
14.	Role of Alumni in Educational Institutions	Chemical engg Association	14.9.2002	Adhiyamaan college of Engg., Hosur
15.	'Information on Engineering college counseling	Special lecture	24.6.2003	Institution of Engineers (I), Tiruchirappalli local center

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16.	Safety in chemical Industries	IICHe students chapter	25.6.2003	Dr. NNCE, Tholudur
17.	Fire, chemical and explosion hazards	ISTE-STTP programme	17.3.2004	Anjalai Ammal Mahalingam Engineering college, Kovilveni
18.	Information on Engineering college counseling	Special lecture	24.6.2005	Institution of Engineers (I), Tiruchirappalli local center
19.	Novel separation technologies for effluent treatment	Sewage treatment and Disposal'	18.3.20106 and 19.3.2006	Institution of Engineers (I), Tiruchirappalli local center and NIT Tiruchirappalli
20.	Opportunities for Chemical Engineers	workshop on Recent trends in Chemical Technology	24.1.2007	Adhiyamaan College of Engg, Hosur
21.	Stress Management'	Special lecture	6.3.2007	Institution of Engineers (I), Tiruchirappalli local center
22.	Foam Separation	TEQIP workshop Bio-Separation Techniques	14.04.2007	Annamalai Univ
23.	Use of Modern Technology in Teaching Engineering science	special lecture	5.7.2008	SASTRA University
24	'Introduction to process Design'	TEQIP sponsored Advanced Chemical Process design	20.10.2008	Chemical engg dept., NITT
25	Overview of energy Sources	National conference sponsored by MNRE on trends and developments in Renewable Energy sources	27.2.2009	Adhiyamaan College of Engg, Hosur
26	Overview of Chemical Engineering Profession'	Special lecture	1.8.2009	Erode Sengunthar College of Engg., Thudupathi Erode on

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27	Renewable Energy- An overview	The national seminar sponsored by MNRE on Sustainable Technologies for future- Vision 20	29.12.2009	Oxford Engineering College, Trichy on
28	Research opportunities for Chemical Engineers	IGuest lecture IChE Students chapter – SVCE student chapter	16.12.2009	SVCE, Sriperumbudur
29	Research opportunities for Chemical Engineers	Special lecture	9.1.2010	Adhiyamaan College of Engg, Hosur on
30	Process control and automation	FDP programme	19.3.2010	Erode Sengunthar college of Engg., Thudupathi, Erode
31	“Entrepreneurship – An overview	Enrepreneurship development cell Inauguration	30.08.2010	Erode Sengunthar college of Engg., Thudupathi, Erode
32	Technology day address	Technology day celebrations	11.05.2011	BHEL, Trichy
32	Prospects in the field of Green energy	Workshop on Green Energy and prevention of Nuclear hazards	28.02.2013	SASTRA university
33	Role of a Chemical Engineer	Special lecture in CAPE 2013	18.10.2013	SASTRA university
34	FRUGAL ENGINEERING	Special lecture	23.09.2014	Saranathan College of Engg in 2013
35	CO ₂ sequestration	Key Note address	08.01.2014	Erode Sengunthar college of Engg., Thudupathi, Erode
36	Scale up of fine chemicals and bulk drugs	PANACEA'14	25.3.2014	Anna Univ., Trichy
37	Transfer proceses and role of Chemical engineers	Special lecture in Bridge course	7.7.2015	Chemical Engg dept., CIT Coimbatore
38	Engineering counseling	Special Lecture	May 2015.	Institution of Engineers (I), Tiruchirappalli local center

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39	Charged Ultrafiltration membranes for desalination applications	Invited talk	12.2.2015	Indo-French workshop , “Sustainable water purification Technologies” on” held at Karaikudi from 11.2.2015 to 13.2.2015
40	Curriculum development	Special talk	March 2015	Chemical Engg Dept. at NIT-Trichy
41	Writing Paper	special talk	21.1.2016	NIT-Trichy, Organised by Humanities department
42	Ideal gases and Material balances	FDP program	23.1.2016	Anna Univ., Chennai
42	Options and need for Alternatives to energy	Utilization techniques of renewable energy sources	06.06.2016 and 09.06.2016	NIT-T
43	Energy and Material balances and Process Economics	Conceptual mechanisms of transport operations in Chemical and bio-chemical processes	22.8.2016 - 27.8.2016	NIT-T
44	Bio-Diesel an alternative fuel	Green and Sustainable Technologies for zero emissions-	21.09.2016	SSN College of Engg- one day national workshop
45	Bio-mass - An Alternate fuel	Workshop on Biofuels and Combustion research	26.09.2016 to 1.10.2016	NIT-T
46	Energy and Environment-Future perspective	The National science day celebrations held at Saranathan College of Engineering, Tiruchirappalli	28.02.2019	Saranathan College of Engineering, Tiruchirappalli

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member (Fellow)	Institution of Engineers (I)	F/017549/4
Life member	Indian society for	LM3133

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	Technical Education	
Life member	Indian Institute of Chemical Engineers	LM 24493 since 2001
Life member	National Society for Fluid Mechanics and Fluid Power	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	One month , 2006	TEQIP sponsored training of Chromatographic separations at NTU, Singapore
Dubai	3 days, 2013	Education fair to highlight DASA Admission process

21. Publications

(A) Refereed Research Journals:

International Journals

S.N o.	Author(s)	Title of Paper	Journal	Vol (No)	Page numbers	Year	Impact factor of the journal (optional)
1.	Anantharaman,N S. Sundaram S.H. Ibrahim	Fluidised bed drying of Agro-products	Bio-Process Engineering	23	411-413.	2000	
2.	Baskar, R.,Anantharaman ,N.,J.S. Babu S. Sundaram	L-glutamic acid production in a novel three phase fluidized bed reactor using coimmobilized bio- catalyst	Biomed Sci Instrum	37	457-62	2001	
3.	S.K. MasudHossain, Manas Das , S.H. Ibrahim, N. Anantharaman,	Studies on biobleaching of Kraft pulp using PhanerochaeteChrysosporium,	Indian Journal of Chemical Technology	10	166-174	2003	0.491
4.	Bhuvaneshwari, S., K..M. MeeraSheriffa	Separation of L-Glutamic acid by emulsion liquid	Journal of scientific and	62	329-333.	2003	0.381

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	Begum, P. Sivashanmugam, N. Anantharaman,	membrane extraction	Industrial research				
5.	Kumaresan.T, K.M. MeeraSheriffa Begum, P. Sivashanmugam, N. Anantharaman, S. Sundaram.	'Experimental studies on treatment of distillery effluent by Liquid Membrane Extraction'	Chemical Engineering Journal	95	199- 204	2003	5.31
6.	S.K. MasudHossain, S.H. Ibrahim, Manas Das, N. Anantharaman	"Studies on Biohydrometallurg ical Leaching of copper glance (Cu ₂ S) ore using <i>Thiobacillusferroo xidans</i> ,	Indian Chemical Engineer,	45(4)	232- 237	2003	
7.	S.K. MasudHossain, Manas Das S.H. Ibrahim, K.M.M. Sheriffa Begum, N. Anantharaman,	Studies on Biohydrometallurg ical Leaching of Iron sulphide ore using <i>Thiobacillusferroo xidans</i> ,	Indian Journal of Chemical Technology,	11	116- 120.	2004	0.491
8.	Venkatesan. S. K.M. MeeraSheriffa Begum, P. Sivashanmugam, N. Anantharaman	Extraction of L- Glutamic acid by emulsion liquid membrane,	Journal of Indian Chemical Society	81	1-3.	2004	
9.	S M Hossain, M. Das, K M M Begum, N. Anantharaman	Bioleaching of Zinc sulphide (ZnS) Ore Using <i>Thiobacillusferroo xidans</i>	Institution of Engineers (I) Journal – Chemical Engineering Division	85	7-11.	2004	
10.	KaruppanMuthu kumar, P. ShunmugaSunda ram, N. Anantharaman, C. Ahmed Basha	Treatment of Textile dye waste water by using an electrochemical bipolar disc stack reactor	Journal of Chemical technology and Biotechnolo gy	79	1135- 1141	2004	2.738

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11.	S.K. MasudHossain, N. Anantharaman	Effect of Glucose on Biological pulping of Lignocellulosic Agro residue using <i>Tremetesversicolor</i>	Journal of the University of Chemical technology and Metallurgy	40(1),	41-46	2005	
12.	S.K. MasudHossain, N. Anantharaman	Studies on Copper (II) Biosorption using, <i>Thiobacillusferrooxidans</i> ,	Journal of the University of Chemical technology and Metallurgy,	4(3),	227-234	2005	
13.	S.K. MasudHossain, Manas Das, N. Anantharaman	Studies on Chromium Biosorption using <i>Thiobacillusferrooxidans</i> ,	Indian Chemical Engineer	47 (1),	50-55.	2005	
14.	S.M. Hossain, M.Das, K.M.M. S. Begum and N. Anantharaman,	Studies on Biodegradation of Cyanide (AgCN) using <i>Phanerochaete chrysosporium</i>	IE (I) Journal.CH,	85	45-49	2005	
15.	S.K. MasudHossain and N. Anantharaman,	Effect of Glucose on lignin biodegradation of lignocellulosic agro-residue using, <i>LentinusCrinitus</i> .	Bulgarian Chemistry and Industry,	76,	50-54.	2005	
16.	S.K. MasudHossain and N. Anantharaman,	Activity enhancement of ligninolytic enzymes of <i>Trametesversicolor</i> with bagasse powder	African Journal of Biotechnology	5(1),	189-194	2006	
17.	S.K. MasudHossain and N. Anantharaman	Studies on Bacterial growth and Arsenic (III) Biosorption using <i>Bacillus Subtilis</i> ,	Chem.BioChem. Eng. Q	20 (2),	209-216	2006	

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18.	S. Saravanan, K.M. Meera Sheriffa Begum, N. Anantharaman,	Removal of Hexavalent Chromium by Liquid Membrane technique,	Journal of the University of Chemical technology and Metallurgy,	41 (3),	333- 342.	2006	
19.	S.K. MasudHossain, M. Das and N. Anantharaman,	Studies on Bacterial growth and Lead Biosorption using <i>Escherichia Coli</i> ,	Institution of Engineers (I) Journal - Chemical Engineering Division,	87 (1),	9-14.	2006	
20.	S.K. MasudHossain and N. Anantharaman,	Studies on Bacterial growth and Lead (IV) Biosorption using <i>Bascillusubtilis</i> ,	Indian Journal of Chemical Technology,	13	591- 596.	2006	0.491
21.	Ramesh Babu R, N.S. Badrinaryana, K.M. MeeraSheriffa Begum and N. Anantharaman,	Electrocoagulation technique for the treatment of Tannery effluents	Journal of the University of Chemical technology and Metallurgy,	42 (2)	201- 206	2007	
22.	Raja.T, Kalaichelvi.P. and Ananthraman.N,	“Development of CFD model for optimum mixing in jet mixed tanks”	Journal of Scientific & Industrial Research ,	66	522- 527	2007	0.385
23.	S.M Hossain, N. Anantharamanan d M. Das,	Studies on Lignin biodegradation of wheat straw using <i>Trametesversicolo</i> rand <i>LentinusCrini</i> <i>tis</i> ,	Institution of Engineers (I) Journal - Chemical Engineering Division	87(2),	42-50.	2007	
24.	N.S Bhadrinarayana, C. Ahmed Basha N. Anantharaman	Electrochemical Oxidation of Cyanide and Simultaneous Cathodic Removal of Cadmium Present in the Plating Rinse Water,	<i>Industrial & Engineering Chemistry Research</i> ,	46	6417- 6424	2007	2.567
25.	S.Nithya,	Model based	<i>Sensors &</i>	84(10)	1677-	2007	

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	Abhay Singh Gour, N.SivaKumaran, T.K.Radhakrishnan N.Anantharaman	Controller design of shell and tube Heat exchanger	<i>Transducers Journal</i>		1686		
26.	P.GaneshPrasadh, S.Venkatesan, K.M.MeeraS.Begum N. Anantharaman	Pertraction of zinc and copper by Emulsion liquid Membrane Technique and Emulsion formation using Computational Fluid Dynamics	<i>Chem. Engg. and Tech.,</i>	30 (9),	1212-1220	2007	2.38
27.	Arulmozhi Muthukumarasamy, K.M. MeeraSheriffa Begum N. Anantharaman	Removal of Chromium (VI) ions by Foam separations: Aqueous and Industrial Effluent”,	<i>The International Journal of Environmental Cultural, Economic & Social sustainability</i>	4(2)	69-76.	2008	
28.	S.Nithya, Abhay Singh Gour, .SivaKumaran,N and N.Anantharaman	Measurement and control of Process using soft computing,	<i>Instrumentation Science & Technology,</i>	36 (2)	194–208	2008	0.525
29.	C.AhmedBasha, N.S. Bhadrinarayana, N. Anantharaman, K.M.Meera S. Begum,	Heavy metal removal from copper smelting effluent using electrochemical cylindrical flow reactor	<i>Journal of Hazardous Materials</i>	152	71-78	2008	4.836
30.	M.Arulmozhi, M.JaleelRahman , K.M.MeeraS.Begum N.Anantharaman	Removal of Heavy metal ions from aqueous and Industrial effluent by Foam Separation	Water Digest	4	73-76.	2008	

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31.	S.Nithya, N.SivaKumaran, N.Anantharaman	Intelligent Controller Implementation FOR nonlinear Chemical process”,	International Journal of Applied Engineering Research,	3(4),	491- 503.	2008	
32.	S.Nithya, N.SivaKumaran, T.Balasubramani an N.Anantharaman	Design of Controller for Nonlinear Process Using Soft Computing,	<i>Instrumentat ion Science & Technology</i>	36 (4)	437- 450.,	2008	0.525
33.	S. M. Giriraj Kumar; R. Sivasankar; T. K. Radhakrishnan; V. Dharmalingam; N. Anantharaman,	<u>Particle Swarm Optimization Technique Based Design of Pi Controller for a Real-Time Non- Linear Process</u>	<i>Instrumentat ion Science & Technology.</i>	36 (5)	525- 542.	2008	0.525
34.	S. M. Giriraj Kumar; R. Sivasankar; T. K. Radhakrishnan; V. Dharmalingam; N. Anantharaman	Genetic Algorithms for Level Control in a Real Time	Process, <i>Sens ors & Transducers</i> ,	97 (10)	22-33	2008	
35.	S.M. Giriraj Kumar, R. Jain, N. Anantharaman, V. Dharmalingam and K.M.M. Sheriffa Begum,	Genetic Algorithm Based PID Controller Tuning for a Model Bioreactor	<i>Indian Chemical Engineer</i>	50(3),.	214- 226	2008	
36.	S. Shanmugapriya. M.Premalatha and N.Anantharaman	Feasibility studies on solar photodegradation of Phenol,	International Journal of Applied Engineering Research,	3(10)	1329- 36.	2008	
37.	Raja	An Experimental	International	3(10)	1337-	2008	

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	Thiruvengadam, P. Kalaichelvi. and N. Ananthraman	and CFD Investigation of the Effect of Nozzle Inclination and Twisting in a Double Jet Mixed Tank,	Journal of Applied Engineering Research,		52		
38.	Hossain, S Masud; Anantharaman, N	Effect of wheat straw powder on enhancement of ligninolytic enzyme activity using Phanerochatechrysosporium	<i>Indian Journal of Biotechnology</i>	7(4).	502-507	2008	0.287
39.	Hossain, SkMasud; Anantharaman, N; Das, Manas	Anaerobic biogas generation from sugar industry wastewaters in three-phase fluidized-bed bioreactor	<i>Indian Journal of Chemical Technology,</i>	16(1)	58-64.	2009	0.491
40.	H. Prasad raju, SkMasudHossain, N Anantharaman and Manas Das	Biodesulphurisation of natural gas in three phase fluidized bed bioreactor using Thibacillusdentrificans	<i>Journal of Scientific and Industrial Research,</i>	68,.	406-411	2009	0.385
41.	S. Jaganathan, K.M.MeeraSheriffa begum, and N. Anantharaman	Aerobic Pollution Abatement of Pulp mill Effluent with the White Rot fungus Phanerochaetechrysosporium in Three-phase Fluidized Bed Bioreactor"	<i>Chemical Engineering Research Bulletin</i>	13	13-16,	2009	
42.	K. Sivaguru, K.M.MeeraSheriffa begum, N. Anantharaman	Hydrodynamic studies on three-phase fluidized bed using CFD analysis	<i>Chemical Engineering Journal</i>	155	207–214,	2009	5.31
43.	G.	Characteristics,	<i>J. Applied</i>	10	1–11.	2009	

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	Arthanareeswaran, N. Anantharaman M. Raajenthiren,	Performance of Blend CA/SPEEK Ultrafiltration Membranes Prepared by Phase Inversion Method using PEG 600 as an Additive	<i>Membrane Science & Technology</i>				
44.	K.M.MeeraSheriffa begum, and N. Anantharaman,	Removal of Chromium(VI) Ions from Aqueous Solutions and Industrial Effluents Using Magnetic Fe ₃ O ₄ Nanoparticles”	<i>Adsorption Science & Technology,</i>	27(7),	701-722	2009	0.633
45.	S.M.Girirajkumar Atal.A.Kumar N.Anantharaman	Speed Control of a Real Time D.C. Shunt Motor Using SA Based Tuning of a PID Controller,	International Journal of Computer Applications	5(11),	20-26.	2010	
46.	S.M.Girirajkumar Atal.A.Kumar N.Anantharaman	Tuning of a PID Controller for a Real Time Industrial Process using Particle Swarm Optimization	IJCA International Journal of Computer Applications	1 (7),	35-40	2010	
47.	Kuppusamy Vaithilingam Selvakumar, C. Ahmed Basha, Harinarayan Janardhana Prabhu, Anantharaman Narayanan, Jayanthi Nagarajan	Electro Oxidation and Biodegradation of Textile Dye Effluent Containing Procion Blue 2G Using Fungal Strain PhanerochateChrysosporium MTCC 787,	<i>International Journal of Chemical Reactor Engineering</i> Volume	8	A147	2010	0.759
48.	S.M Giriraj Kumar, Bodla	Design of Controller using	<i>International Journal of</i>	6(2),	20-25.	2010	

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	Rakesh N.Anantharaman	Simulated Annealing for a Real Time Process,	<i>Computer Applications</i>				
49.	S. M. GiriRajkumar, Atal. A. Kumar, N. Anantharaman	Application of Genetic Algorithm for Tuning of a PID Controller for a Real Time Industrial	Process, <i>Sensors & Transducers Journal</i>	121	56-67	2010	
50.	M. Arulmozhi; K. M. Meera S. Begum; N. Anantharaman	Continuous Foam Separation Of Heavy Metal Ions From Electroplating Industrial Effluent,	<i>Chemical Engineering Communications</i>	198(4)	541 - 551	2011	1.433
51.	Harsha P. Srivastava, G. Arthanareeswaran, N. Anantharaman, Victor M. Starov,	Performance and properties of modified poly (vinylidene fluoride) membranes using general purpose polystyrene (GPPS) by DIPS method,	<i>Desalination</i>	283	169-177,	2011	4.412
52.	Dhanuskodi, R., A. Arunagiri, A., and N. Anantharaman, N.	Analysis of Variation in Properties and its Impact on Heat Transfer in Sub and Supercritical Conditions of Water/Steam”,	<i>International Journal of Chemical Engineering and Applications</i>	2(5)	320-325,	2011	
53.	Harsha P. Srivastava, G. Arthanareeswaran, N. Anantharaman, Victor M. Starov,	Performance of modified poly(vinylidene fluoride) membrane for textile wastewater ultrafiltration,	<i>Desalination</i>	282	87-94,	2011	4.412

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54.	SkMasudHossain, N Anantharaman Manas Das,	Bioethanol fermentation from untreated and pretreated lignocellulosic wheat straw using fungi <i>Fusariumoxysporum</i> ,	Indian Journal of Chemical Technology,	19	63-70.	2012	0.491
55.	P. Asaithambi , Lakshminarayana Garlanka, N. Anantharaman Manickam Matheswaran	Influence of Experimental Parameters in the Treatment of Distillery Effluent by Electrochemical Oxidation	<i>Separation Science and Technology</i> Cent. Eur. J. Eng.	47 (3),	470-481	2012	1.083
56.	Shanmugam Senthilkumar, Muthiah Perumalsamy, Harinarayan Janardhana Prabhu, Chiya Ahmed Basha,	Response surface optimization for efficient dye removal by isolated strain <i>Pseudomonas</i> sp,	Central European Journal of Engineering	2(3)	425-434	2012	
57.	K.M.MeeraSheriffa begum, S. Venkatesan N. Anantharaman,	Emulsion liquid Membrane pertraction of metal ions from Aqueous solutions and Electroplating effluent using Rotating Disc Contactor	Chemical Engineering Communications	199	1575-1595	2012	1.433
58.	SkMasudHossain, N. Anantharaman Manas Das,	Bioethanol Fermentation from Untreated and Pretreated Bagasse Using <i>Fusariumoxysporum</i>	Indian Chemical Engineer	53(1)	18-32	2011	
59.	Arulgnanaraj Rathinam, Ravichandran K S, Anantharaman	Anfis approach to the working of a compost-Heat Extractor	<i>International Journal of Environment and Waste Management</i>	11(1)	13-26	2013	

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	Narayanan, MeeraSheriffa K M,		t,Inderscienc e Publications				
60.	Atulji Srivastava, Shameek Ghosh, N. Anantharaman, and V.K. Jayaraman,	Hybrid biogeography based simultaneous feature selection and MHC class I peptide binding prediction using support vector machines and random forests	<i>Journal of Immunologi cal Methods</i>	387	284– 292.	2013	1.858
61.	Natarajan Girish, Subramania Pillai Niju, Khadhar Mohamed MeeraSheriffa Begum Narayanan Anantharaman,	Utilization of a cost effective solid catalyst derived from natural white bivalve clam shell for transesterification of waste frying oil	<i>Fuel,</i>	111	653- 658	2013	3.611
62.	V.Archana, K.M.Meera S.Begum N.Anantharaman ,	Studies on removal of phenol using ionic liquid immobilized polymeric micro- capsules	<i>Arabian Journal of Chemistry</i>	9	371- 382	2016	3.613
63.	Dhanuskodi, R., A. Arunagiri, A., and Anantharaman, N.	Review of the wall temperature prediction capability of available correlations for heat transfer at supercritical conditions of water	<i>Journal of Energy,</i> 2013			2013	
64.	M. Arulmozhi; K. M. Meera S. Begum; N. Anantharaman,	Continuous Foam Fractionation Of Chromium (Vi) Ions From Aqueous And Industrial Effluents	Desalination and Water Treatment	53	1664– 1674	2015	1.272

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65.	S. Niju, K.M. Meera Sheriffa Begum and Narayanan Anantharaman,	“Preparation of Biodiesel from Waste Frying Oil Using a Green and Renewable Solid Catalyst Derived from Egg Shell”	<i>Environmental Progress & Sustainable Energy</i>	34	248–254	2015	1.631
66.	S Niju, K M Meera S Begum, N Anantharaman,	Modification of egg shell and its application in biodiesel production.	Journal of Saudi Chemical Society	18,	702-706.	2014,	1.978
67.	S. Niju, K.M. Meera Sheriffa Begum, N. Anantharaman,	Enhancement of biodiesel synthesis over highly active CaO derived from natural white bivalve clam shell,	Arabian Journal of Chemistry	9(5)	633–639	2016,	3.613
68.	Ronnie Kiran Mathew, K.M. Meera Sheriffa Begum, N. Anantharaman,	Hydrodynamic studies on fluidized beds with internals: Experimental and ANN approach	<i>Powder Technology,</i>	264	423–429.	2014	2.759
69.	Y.L. Thuyavan, N. Anantharaman, G. Arthanareeswaran, A. F. Ismail,	Adsorptive Removal of Humic Acid by Zirconia Embedded in a Poly (ether sulfone) Membrane,	Ind. Eng. Chem. Res.	53,	11355–11364	2014	2.567
70.	Y. Lukka Thuyavan, N. Anantharaman, G. Arthanareeswaran, A. F. Ismail,	Modification of polyethersulfone using sericin and polyvinylpyrrolidone for cadmium ion removal by polyelectrolyte-enhanced ultrafiltration	Desalination and Water Treat.	56	366-378	2014	1.272

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71.	Deepa Aravind, Ronnie Kiran Mathew, K.M. Meera S Begum and Anantharaman Narayanan	Studies on Fluidized Beds Using Disk Type Internals And Modeling By ANN,	<i>Indian Chemical Engineer,</i>	57 (2),	164– 176	2015	
72.	S. Niju, K. M. Meera S. Begum N. Anantharaman ,	Continuous flow reactive distillation process for biodiesel production using waste egg shells as heterogeneous catalysts	<i>RSC Adv.</i>	96	54109- 54114	2014	3.289
73.	S. Niju, M Muhammed Niyas, K.M. Meera Sheriff Begum, N. Anantharaman,	KF-impregnated clam shells for biodiesel production and its effect on a diesel engine performance and emission characteristics	<i>Environment al Progress & Sustainable Energy</i>	34	1166– 1173	2015	1.631
74.	Sneha E. Mahesh, Anand Ramanathan, K.M. Meera S. Begum and Anantharaman Naryanan,	Biodiesel production from waste cooking oil using KBr impregnated CaO as catalyst .	<i>Energy Conversion and Managemen t</i>	91,	442- 450	2015	4.801
75.	Y.L. Thuyavan, N. Anantharaman, G. Arthanareeswara n, A.F. Ismail, R.V. Mangalaraja,	Preparation and characterization of TiO ₂ -sulfonated polymer embedded polyetherimide membranes for effective	<i>Desalination</i> .	365	355– 364.	2015	4.412

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		desalination application					
76.	R. Dhanuskodi, R. Kaliappan, S. Suresh, N. Anantharaman, A. Arunagiri, J. Krishnaiah,	Artificial Neural Networks model for predicting wall temperature of supercritical boilers,	Applied Thermal Engineering	90(5),	749–75	2015,	3.043
77.	Y. Lukka Thuyavan, N. Anantharaman, G. Arthanareeswaran, A.F. Ismail,	Impact of solvents and process conditions on the formation of polyethersulfone membranes and its fouling behavior in lake water filtration	<i>Journal of Chemical Technology and Biotechnology</i>	91, (10)	2568–2581	2016 DOI 10.1002/jctb.4846	2.738
78.	Tushant Ghode, K.M. Meera S. Begum, Anand B.Desamala, Anantharaman Narayanan	A comparative study of ANN and CFD modeling for pressure drop prediction in a fluidized bed with internals.	Indian Chemical Engineer			Article in press	
79.	Y. Eswararao, S. Niju, K.M. Meera Sheriffa Begum, N. Anantharaman S.Malik Raj,	Transesterification of jatropha oil using a mixture of natural shells as solid catalyst,	Biofuels,			Article in press	
80.	P.A. Anjana, S. Niju, K.M. Meera Sheriffa Begum, N. Anantharaman, R. Anand & D. Babu	Studies on biodiesel production from Pongamia oil using heterogeneous catalyst and its effect on diesel engine performance and emission characteristics	Biofuels			Article in press	

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81.	P.A. Anjana, S. Niju, K. M. Meera Sheriffa Begum, N. Anantharaman	Utilization of limestone derived calcium oxide for biodiesel production from non-edible pongamia oil	Environmental Progress & Sustainable Energy	35	1758–1764	2016	1.631
82.	Aniket Shrikant Ambekar, R. Sivakumar, N. Anantharaman and M. Vivekenandan	CFD simulation study of shell and tube heat exchangers with different baffle segment configurations	Applied Thermal Engineering	108,	999-1007	2016	3.043
83.	S. Santhosh Raaj , S. Arumugam , M Muthukrishnan, S. Krishnamoorthy , N. Anantharaman	Characterization of coal blends for effective utilization in thermal power Plants,	Applied Thermal Engineering,	102	9–16	2016	3.043
84.	S. Niju, K.M.Meera Sheriffa Begum and N. Anantharaman	Clam Shell Catalyst for Continuous Production of Biodiesel,	International Journal of Green Energy	13	1314-1319	2016	1.793
85.	D.K Singh, S . Suresh, H Singh, B.A.J Rose , S. Tassou, and N. Anantharaman	Myo-inositol based nano-PCM for solar thermal energy storage	Applied Thermal Engineering	110	564-572	2017	3.043
86.	Sai Vijaya Krishna Malluri, K. M. Meera Sheriffa Begum, and Anantharaman N	Hydrodynamic studies in Fluidized bed with internals and modeling using ANN and ANFIS	Powder Technology	307	37–45.	2017	2.759
87.	S. Niju, J. Indhumathi, K. M. Meera Sheriffa Begum & N Anantharaman,	Tellina tenuis: a highly active environmentally benign catalyst for the transesterification process	Biofuels	8(5)	565-570	2017	

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

88.	B.A.J. Rose; H. Singh, Ph.D.; N. Verma; S. Tassou; S. Suresh; N. Anantharaman; D. Mariotti; P. Maguire	Investigations into nanofluids as direct solar radiation collectors	Solar Energy journal	147	426-431	2017	
89.	A.V. Karthikeyani , N. Anantharaman , K.M. Prabhu , L. Kumaresan , C. Alex Pulikottil and S S V Ramakumar	In situ FCC gasoline sulfur reduction using spinel based additives, • August 2017, DOI: 10.1016/j.ijhydene .2017.08.006	International Journal of Hydrogen Energy	42	26529 –544	2017	
90.	Y. Eswararao, S. Niju, K.M. Meera Sheriffa Begum, N. Anantharaman	Investigation of boiler scale deposits as heterogeneous base catalyst for biodiesel production from jatropha oil	Biofuels	https://doi.org/10.1080/17597269.2017.1387745		2017	
91.	Lukka Thuyavan Yogarathinam, Arthanareeswaran Gangasalam, Ahmad Fauzi Ismail, Sivasamy Arumugam, Anantharaman Narayanan	Concentration of whey protein from cheese whey effluent using ultrafiltration by combination of hydrophilic metal oxides and hydrophobic polymer	Journal of Chemical Technology & Biotechnology	93(9) pp.	2576-2591(16)		
92.	A.V. Karthikeyani , N. Anantharaman , K.M. Prabhu	GASOLINE SULFUR REDUCTION ADDITIVES – MODEL COMPONENT STUDY	Petroleum Science and Technology	Volume 36, 2018 - Issue 14	Pages 1051-1057	2018	
93.	Femina A and	Leached	GREEN	8	281-	(2019)	

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	Anantharaman N	compounds from the extracts Of pomegranate peel, green coconut shell and karuvelam wood For the removal of Hexavalent Chromium	Processing and Synthesis		287		
94.	G. Shanthi , M. Premalatha, , N. Anantharaman	Effects of L-amino acids as organic nitrogen source on the growth rate, biochemical composition and polyphenol content of Spirulina platensis	Algal Research	Volume 35	Pages 471-478	Nov. 2018	
95.	A.V.S.L.Sai Bharadwaj, Madhu Singh, S Niju, K.M.Meera Sheriffa Begum, N Anantharaman	Biodiesel Production from Rubber Seed Oil Using Calcium oxide derived from Eggshell as Catalyst – Optimization and Modeling studies	GREEN Processing and Synthesis	Vol: GPS 8.	430-442	2019	
96.	Bharadwaj A. V. S. L. Sai, Niju S., Begum K. M. Meera & Anantharaman N	Optimization and modeling of biodiesel production using fluorite as a heterogeneous catalyst.	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	https://doi.org/10.1080/15567036.2018.1549165. Vol 41:15	1862-1878	2019	
97.	Femina Abdul Salam, Anantharaman Narayanan	Biosorption - a case study of hexavalent chromium removal with raw pomegranate peel	Desalination and Water Treatment	doi:10.5004/dwt.2019.23554 Vol 156	278-291	2019	

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

98.	A.V.S.L. Sai Bharadwaj, Niju S, K. M.Meera S Begum & Anantharaman N	Free fatty acid optimization and modeling of biodiesel production from high viscous rubber seed oil– A comparative study of RSM and ANN	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	https://doi.org/10.1080/15567036.2019.1668504		23-9-2019	
99.	Vivekanandan, M, Premalatha, M and Anantharaman, N	Erosion Reduction and Enhancement in Performance of A Novel Cyclone Separator Using CFD Analysis	Journal of Engineering Technology	Vol:8 SI	129-138	2019	
100	Vivekanandan, M, Premalatha, M and Anantharaman, N	Hydrodynamics Studies on Loop Seal in CFBC Boiler using CFD Analysis	Chemical Product and Process Modeling (CPPM)				
101	A.V.S.L. Sai Bharadwaj, Niju S, K. M.Meera S Begum & Anantharaman N	Biodiesel Production from Rubber Seed Oil using Calcined Eggshells Impregnated with Al ₂ O ₃ as Heterogeneous Catalyst- A comparative study of RSM and ANN optimization	Brazilian Journal of Chemical Engineering			24/7/2019 (Accepted)	
102	A.V.S.L.Sai Bharadwaj, S Niju, K.M.Meera Sheriffa Begum, N Anantharaman	Performance and Evaluation of Calcined Limestone as Catalyst in Biodiesel Production from High Viscous Non-Edible Oil	Environmental Progress & Sustainable Energy	e13342. https://doi.org/10.1002/ep.13342		2019	

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

National :

S. No.	Author(s)	Title of paper	Journal	Vol. (No),	Page	Year
1.	Anantharaman, N G.R.Padmanabhan	Some Aspects on Viscosity of solutions	Acta Ciencia Indica,	13(4),	126-132.	1987
2.	Govinadarajan, S, N. Anantharaman S. Krishnamoorthy	Synthesis and Characterisation of Alkyd resins of Karanja and Neem oil	Research and Industry	37	. 100-105.	1992
3.	Anantharaman, N.,MeeraSheriffa Begum, K.M., MasudHossain S.K. Ibrahim, S.H	Viscosity correlations for alcohols	Journal of Current Sciences	2 (1)	1-4.	2002
4.	Mahalakshmi, S., N. Anantharaman S.Sundaram	Studies on vapour pressure of solutions	Journal of Current Sciences	2 (1)	83-86,	2002
5.	Senthil, N., Balachandar, P., MeeraSheriffa Begum K.M., Anantharaman, N	Software Package for design of Distillation column using VB- 6.0	Journal of Engineering Today	4(6),	12-27,	2002
6.	Anantharaman, N., R.A. Karthik	Petroleum Marketing Strategy in an age of uncertainty and cut-throat competition	Journal of Engineering Today	4(6)	47-59.	2002
7.	Balachandar, P., Senthil, N., MeeraSheriffa Begum, K.M., Anantharaman,N	Design of Distillation column by McCabe – Thiele method using C- language	Journal of Engineering Today	4(6),	81-102,	2002
8.	S.K. MasudHossain, N. Anantharaman, S.H. Ibrahim,	Alcohol fermentation from starchy raw material (Potato) in CSTR.	Journal of Current Sciences	2(2),	279-282,	2002

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

9.	S. K. MasudHossain, N. Anantharaman and S.H. Ibrahim, K.M. M. Sheriffa Begum	Studies on lignin Biodegradation of Bamboo-An eco friendly pulping process.	Eco. Env. & Cons.	9(1)	7-14	2003
10.	S.K. MasudHossain, K.M.M. Sheriffa Begum, S.H. Ibrahim N. Anantharaman.	Studies on Biodegradation of Polychloro Biphenyl (Benzopyrine) using PhanerochaeteChrysosporium	Indian Journal of Environmental Protection	23(4),	422-427	2003
11.	S.K. MasudHossain, S.H. Ibrahim, Manas Das, N. Anantharaman,	Studies on lignin biodegradation of Bagasse using P-chrysosporium	Journal of Industrial pollution control			2003
12.	S.K. MasudHossain, S.H. Ibrahim, Manas Das , N. Anantharaman	Studies on Biopulping of Jute stick using PhanerochaeteChrysosporium	IPPTA Journal	16(2),	47-56.	2004,
13.	S.K. MasudHossain, N. Anantharaman and Manas Das	Municipal waste water treatment Synthetic Polyelectrolytes and Graft poly electrolyte onto starch ,	Chemical Engineering world,	39(5).	64-70.	2004,
14.	S.K. MasudHossain, N. Anantharaman	Studies on Lignin Biodegradation of Rice Straw Using <i>Tremetes Versicolor</i> & <i>Lentinus Crinitus</i> .	Chemical Engineering world	39(9)	64-70,	2004,
15.	S.K. MasudHossain N. Anantharaman,	Studies on Rheological Behaviors of Sulphur Vulcanised Natural rubber ,	Chemicals Product finder,	23(5)	158-161.	2004

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

16.	S.K. MasudHossain N. Anantharaman,	Studies on Biological Pollution Abatement of Petrochemical Industry waste water	Indian Journal of Environment al Protection	24(11)	,845- 848.	2004
17.	S.K. MasudHossain N. Anantharaman	Studies on Biotechnological Pulping of Wheat straw using <i>Tremetes Versicolor</i> & <i>Lentinus Crinitus</i>	Chemical Engineering world,	9(12)	126-130,	2004,
18.	S.K. MasudHossain N. Anantharaman	Biodesulphurisation of Coal using <i>Thiobacillus Ferroxidans</i> Strain M-1	Chemical Engineering world,	40(1)	101-104.	2005
19.	S.K. MasudHossain, N. Anantharaman,	Studies on Arsenic (III) Biosorption Using <i>T hiobacillusferrooxi dans,</i>	Indian J. Environment al Protection	25(1)	76-80.	2005.
20.	S.K. MasudHossain and N. Anantharaman,	Aerobic Biodegradation of Trichlorophenol using <i>PhanerochaeteChry soporium,</i>	Chemical Engineering world	40(5)	88-91.	2005
21.	S.K. MasudHossain and N. Anantharaman,	Effect of silane coupling agent on Rheological Properties of clay filled styrene Butadiene filled styrene butadiene rubber	Chemical Engineering world	40(6).	66-70.	2005
22.	S.K. MasudHossain and N. Anantharaman,	Bio-pulping of Agro-residue wheat straw using <i>PhanerochaeteChry soporium,</i>	Chemical Engineering world	40(11)	59-62.	2005
23.	S.K. MasudHossain and N. Anantharaman,	Effect of glucose on biological pulping,	Chemical Engineering world	40(12)	150 - 155.	2005

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

24.	S.K. MasudHossain and N. Anantharaman	“Comparison Studies on biological pulping of lignocellulosic agro-residue using <i>Tremetesversicolor</i> and <i>Lentinuscrinitus</i> ”,	Process and Plant Engineering	24(2),	41-46,	2006
25.	S.K. MasudHossain and N. Anantharaman,	Bio-accumulation of Cadmium (II)	Chemical Engineering world,	41 (6),	78-82.	2006
26.	K. Sivaguru, S.K. MasudHossain, K.M.MeeraSheri fafbegu, and N. Anantharaman,	Aerobic Pollution Abatement of Dairy effluent treatment Using <i>Candida haemuloni</i> , in three phase fluidized bed bio-reactor,	Indian Journal of Environmental Protection	26 (9),	788-793,	2006
27.	,K. Sivaguru, S.K. MasudHossain, K.M.MeeraSheri ffa begum, and N. Anantharaman,	Waste-Management – Dairy effluent treatment Using <i>Candida haemulonii</i>	Chemical Engineering World	41(11),	58-61.	2006
28.	S.K. MasudHossain and N. Anantharaman	Aerobic biological pollution abatement of sugar industry waste waters with phanerochatechryso sporium	Process and Plant Engineering	24(4)	72-76,	2007
29.	Raja.T, Kalaichelvi.P. and Ananthraman.N,	CFD Simulation And Experimental Validatation Of Jet Mixer With Conical Bottom	Process & Plant Engineering	25(1),	27-32.	2007
30.	S.M.GirirajKumar, N.Anantharaman , V.Dharmalingam , K.M.MeeraSheri ffa Begum,	Performance Improvement in a Model Bioreactor using Genetic Algorithm	Journal of Current Sciences,	10 (2),	479-484,	2007

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

31.	M. Arulmozhi, K.M. MeeraSheriffa begum N.Anantharaman	Foam separation of copper(II) from aqueous solutions	<i>Journal of Environmental research and development,</i>	2(2),	217- 226.	2007
32.	S.M.GirirajKumar, R.Sivasankar, RajniJain, N.Anantharaman , V. Dharmalingam,	Design of Simulated annealing Based Controller for a Mechanical System”, Manufacturing Technology Today	A Journal of Central Manufacturing Technology Institute(CMITI)			2007
33.	Nithya, S T. Balasubramanian , K.M. MeeraSheriffa Begum and N. Anantharaman,	Analysis study of FLC based Chemical Process using simulations,	<i>Process and Plant Engineering</i>	25(6),	59-61.	2007
34.	S.Nithya, Abhay Singh Gour, N.SivaKumaran, T.K.Radhakrishnan ,T.Balasubramanian N.Anantharaman	Design of Intelligent Controller for Non- Linear Processes,	<i>Asian Journal of Applied sciences,</i>	1(1),	33-45,	2008
35.	S. Shanmugapriya. M.Premalatha and N.Anantharaman	Solar photocatalytic treatment of Phenolic waste water- potential, challenges and opportunities,	ARPJ journal of Engineering and applied sciences	3(6),	36-41.	2008
36.	S.Nithya, N.Sivakumaran, T.Balasubramanian and N.Anantharaman	Model Based Controller Design For A Spherical Tank Process In Real Time	<i>IJSSST</i>	9(4)	25-31,	2008
37.	R. Arul Gnanaraj, K.M.MeeraSheriffa Begum and N. Anantharaman	Thermal characteristics of Press Mud Compost bed	<i>Process and Plant Machinery</i>			2009.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

38.	N. Balaji, K. M. MeeraSheriffa Begum, N. Anantharaman and M. S. Uddin,”	Adsorption and desorption of l-phenylalanine on nano-sized magnetic particles	<i>ARPN Journal of Engineering and Applied Sciences</i>	4,(8)	39-44.	2009
39.	S.K. MasudHossain and N. Anantharaman,	Effect of silane coupling agent on Rheological Properties of clay filled Polypropylene rubber,	<i>Process and Plant Engineering ,</i>	27(3),	22-25.	2009
40.	S.Nithya, N.SivaKumaran, T.K.Radhakrishnan and N.Anantharaman ,	Design of Control of Non-Linear Processes	<i>The Icfai University journal of Electrical and Electronics Engineering</i>	3(1)	66-79.	2010
41.	S. M Girirajkumar, BodlaRakesh, N. Anantharaman,	Design of controller for a pressure process using particle swarm optimization techniques.	<i>J. Curr. Sci.</i>	15 (2),.	349 - 358 .	2010
42.	Nithya, S. Sivakumaran,N. Balasubramanian, T. Anantharaman, N.	Intelligent controller Design for nonlinear processes using genetic Algorithm	The IUP journal of Mechanical Engineering	4(1)	7-24.	2011
43.	GiriRajkumar, S.M., Kumar Atal, A., Anantharaman, N,	Application of Simulated Annealing for Tuning of a PID Controller for a Real Time Industrial Process	Journal of computer science and control systems,	2(4)	29-34.	2011
44.	Dhanuskodi, R., A. Arunagiri, A., and Anantharaman, N.	Emission reduction potential of supercritical boilersin India	<i>TERI Information Digest of Energy and Environment</i>	12(1),	11-16,	2013.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

45.	Gokul V. Mahajan*, Femina A., K.M. Meera Sheriffa Begum and N. Anantharaman	Preparation and characterization of micro porous activated carbon prepared from prosopis juliflora with chemical and thermal activation,	Research Journal of Engineering Sciences, January ()	Vol. 6(1),	1-4	2017
46.	Masud Hossain S K and Anantharaman N,	Modelling of Pb(IV) adsorption on activated mustard oil cake carbon in fluidized bed reactor	Process & plant Engineering,	35(1) A-J	49-54	2017

(B) Conferences/Workshops/Symposia Proceedings

CONFERENCES

1) International

S.No.	Author(s)	Title of Abstract/Paper	Name of the Conference,	Venue	Year
1.	Anantharaman, N S.H. Ibrahim	Fluidised bed Drying of Mustard seeds'	<i>International symposium on Recent advances in Particulate science and Technology</i>	IIT Madras	1980
2.	Srikala, R., Divya Mishra, N .Anantharaman S.Sundaram	Comparative study of Fluidised bed and Infra red drying of Mustard seeds	<i>International Symposium on Recent advances in Bio-Technology, a, June</i>	Andhra University, Visakhapatnam, Indi	1993.
3.	Baskar,R, N. Anantharaman, J. Sarat Chandra Babu S. Sundaram	L-Glutamic acid production in a Novel Three phase fluidized bed reactor using coimmobilized Bio-Catalyst	<i>38th International ISA Biomedical Sciences Instrumentation Symposium ,</i>	Colorado,	2001
4.	Sridhar, T, P. Siva Shanmugam, K.M. MeeraSheriffa	Process Integration Study of Ammonia Plant	<i>International Symposium on recent trends in Heat and Mass transfer,</i>	IIT Guahathi	2002.

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	Begum N. Anantharaman				
5.	Hossain SKM, Anantharaman N	studies on tri-chlorophenolbiodegradation using <i>P. chrysosporium</i> , <i>Water and Wastewater: Perspectives of Developing Countries (WAPDEC)</i>	International Water Association, UK, department of Civil Engg, ,IIT NewDelhi,.	IIT Delhi	2002
6.	Raja. T, Kalaichelvi.P , Ananthraman .N Sundaram .S	Experimental Studies on A liquid jet mixed tank,” Presented at Reactions 2005	An International Technical Symposium organized by the Department of Chemical Engineering,.	St. Peter's Engineering College	2005
7.	S.M.GirirajKumar, R.Sivashankar, N.Anantharaman	Evolutionary Methods Based Design for Improving Controller Performance in First-order systems with Large Dead times	Proceedings of Fifth International Conference on Trends in Industrial Measurements and Automation(TIMA),	TIMA Tamilnadu	2007
8.	M. Arulmozhi, K.M. MeeraSheriffa begum N.Anantharaman	Foam separation of TributylPhosphate	Cleaner technologies and Environmental Management,	PEC, Pondicherry,.	2007
9.	S.M. GirirajKumar, R. Sivashankar and N.Anantharaman	Evolutionary Methods Based Design for Improving controller Performance in First order systems with large Dead times	Trends in Industrial Measurements and Automation(TIMA),	TIMA Tamilnadu	2007
10.	S.M.GirirajKumar ,N.Anantharaman	Particle Swarm Optimization (PSO) based	International Conference on Recent Advancements and	RACE	2007

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	,V.Dharmalingam ,R.Balasubramanian	approach for PID parameter tuning in a Model Bioreactor	Applications of Computer in Electrical Engineering (RACE) 2007		
11.	S.M.GirirajKumar, N.Anantharaman, V.Dharmalingam , K.M.MeeraSherifa Begum R.Balasubramanian	Optimization of PID tuning parameters using Particle Swarm Optimization(PSO) for a Higher Order System	International conference on Modelling and Simulation (CITICOMS),	CIT, Coimbatore, TamilNadu, India,	2007
12.	S.Nithya, Abhay Singh Gour, N.SivaKumaran, T.K.Radhakrishnan N.Anantharaman,	Control of Heat Exchanger using Genetic Algorithm	International Conference on Modeling and Simulation CITICOMS ,	CIT, Coimbatore, TamilNadu, India,	2007
13.	Raja. T, Kalaichelvi.P , Anantharaman .N	A simulation study on optimum orientation of the nozzles in a double jet mixed tank with hemispherical bottom	International Conference on Modeling and Simulation CITICOMS2007"	CIT, Coimbatore, TamilNadu, India,	2007
14.	S.Nithya, Abhay Singh Gour, N.SivaKumaran, T.K.Radhakrishnan N.Anantharaman	Predictive Controller Design of Shell and Tube Heat Exchanger	International Conference on Intelligent and Advanced Systems, ,	MALA YSIA	2007
15.	S.M.GirirajKumar ,N.Anantharaman , V.Dharmalingam ,Asha Sunil	Design of PID controller for a model bioreactor based on Particle Swarm Optimization techniques	Proceedings of International Conference on Sensors and Related Networks, Dec 2007		2007
16.	Nithya, S. Gour, A.S. Sivakumaran, N. Radhakrishnan,	Intelligent controller implementation in real time for a nonlinear process	<i>Industrial Electronics, 2008. ISIE 2008. IEEE International Symposium on</i> June 30 -July 2, 2008	IEEE	2008

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	T.K. Balasubramanian, T. Anantharaman, N.				
17.	Nithya, S. Vijayarekha, K. Sivakumaran, N. Balasubramanian, T. Anantharaman, N,	Controllers implementation based on softcomputing for non-linearprocess	Industrial Electronics, 2008. IECON 2008. 34th Annual Conference of IEEE 10-13 Nov. 2008 .	IEEE	2008
18.	G. Arthanareeswaran, M. Raajenthiran, N. Anantharaman	Performance Enhancement of PSf/SPEEK blend membranes for ultrafiltration applications: Role of PEG 600 as an additive	ICOM 2008	Hawali USA	2008
19.	RadheShyamTahkur, DebjyotiSen, Anantharaman, N Arthanareeswaran G	Effect of Inorganic particle on the performance of Polyether sulfone-cellulose acetate blend ultrafiltration membranes	The International conference on Membrane Science and Technology (MST 2009)	Kuala Lumpur, Malaysia	2009
20.	S.Nithya, N.Sivakumaran, T.K.Radhakrishnan and N. Anantharaman	Soft computing Based Controllers Implementation for Non-linear Process in Real Time	World Congress on Engineering and Computer Science 2010 WCECS 2010,	San Francisco, USA	2010
21.	DamarlaPavanKumar, Ch.NarasimhaReddy, K.M.MeeraSherifaBegum, N. Anantharaman	Experimental Studies on fluidized bed drying of raggi with internals and optimization of process parameters	CHEMCON 2010,.	Annamalai University,	2010
22.	M.Arulmozhi*, K.M.MeeraS.Begum, N. Anantharaman	Continuous Foam Fractionation Of Chromium (Vi) Ions	CHEMCON 2010,	Annamalai University,	2010
23.	Harsha P. Srivastava,	Synthesis and Characterization of	Recent and Emerging Advances in Chemical	IIT Madras	2010

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	G. Arthanareeswaran N. Anantharaman	PVDF-atactic PS Blend, Recent and Emerging Advances in Chemical Engineering (REACH)	Engineering (REACH), Department of Chemical Engineering, Indian Institute of Technology Chennai, Chennai,		
24.	Kalaichelvi P, Raja T, Shanawaskhan C, Anantharaman N	Mixing Characteristics Of A Double Jet Mixer With Hemispherical Bottom Using Toluene As Working Fluid	37 th National and 4 th International conference, FMFP 2010,	IIT Madras	2010
25.	Harsha P. Srivastava, G. Arthanareeswaran and N. Anantharaman	Study of crystallinity and phase behavior of PVDF-GPPS blends membranes from X-ray Diffractometry and fourier Transform Infra Red Spectroscopy (in ATR mode)	Indian Chemical Engineering Congress (CHEMCON-2010).	Annamalai University,	2010
26.	Harsha P. Srivastava, G. Arthanareeswaran and N. Anantharaman	Preparation and Characterization of General purpose Polystyrene (GPPS) by immersion precipitation method	Indian Chemical Engineering Congress (CHEMCON-2010)	Annamalai University,	2010
27.	Harsha P. Srivastava, G. Arthanareeswaran and N. Anantharaman	Preparation and Characterization of Poly (styrene-acrylonitrile) (SAN) Membrane by Immersion Precipitation Method	Indian Chemical Engineering Congress (CHEMCON-2010)	Annamalai University,	2010
28.	N. Anantharaman, Emin P. Mathew and	Hydrodynamics studies in a fluidized bed with	International conferece on Recent Advanres In	IICHe Kochi regional	2011

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

	K.M.MeeraS.Begum	disc promoters	Chemical Engineering And Trechnology, RACET 2011,	centre, Kochi, India,	
29.	K.M.MeeraS.Begum V. Archana and N.Anantharaman	Preparation and Characterization of RTIL encapsulated polymer microspheres for phenol recovery	International conference on Recent Advances In Chemical Engineering And Technology, RACET 2011, IChE Kochi regional centre, Kochi, India, 10-12, March 2011.	IChE Kochi regional centre, Kochi, India,	2011
30.	Harsha P. Srivastava, G. Arthanareeswaran and N. Anantharaman	Preparation and Characterization of Modified Styrene and its Copolymer Membranes	INDO-UK workshop on current developments and treatments on wastewater in India 2011 at National Institute of Technology, Tiruchirappalli, 29-31 August 2011.	National Institute of Technology, Tiruchirappalli, 2	2011.
31.	Harsha P. Srivastava, G. Arthanareeswaran and N. Anantharaman	Performance of modified poly (vinylidene fluoride) membranes synthesized using general purpose polystyrene for textile applications	International Conference on Membranes: Environmental and Biological Applications (ICM-2011)	Mahatma Gandhi University, Kottayam,	2011.
32.	K. Sriram, P. Uma Maheswari, K. M.Meera Sheriffa Begum,* and N.Anantharaman	Antimicrobial property of CuO loaded hydrophobically modified chitosans for skin infective applications	CHEMCON, 2016	A.C.Tech, Anna university, Chennai	2016
33.	Vidya V, Lakshminarsimhan M and Anantharaman N	Simulation of a Scaled Down 250 MWe CFB Boiler using Computational Particle Fluid Dynamics	International conference on advances and challenges for sustainable ecosystem	NIT, Trichy Dec 6-8, 2018	2018

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

		Numerical Model			
34.	Bharadwaj A. V. S. L. Sai, Niju S., K. M. MeeraSheriffa Begum and Anantharaman N	Acid value optimization in biodiesel production from rubber seed oil	International conference on advances and challenges for sustainable ecosystem	NIT, Trichy Dec 6-8, 2018	2018
35.	Vivekanandan M , Premalatha, M and Anantharaman, N	Hydrodynamics Studies on Loop Seal in CFBC Boiler	International conference on advances and challenges for sustainable ecosystem	NIT, Trichy Dec 6-8, 2018	2018

National

S.No.	Author(s)	Title of Abstract/Paper	Name of the Conference,	Venue	Year
1.	Anantharaman, N S.H. Ibrahim	Fluidised bed studies of Food Materials'	37 th Annual session of <i>IChE</i> , , India..	IIT New Delhi	1984
2.	Anantharaman,N , P. Subramanian Vr. Arunachalam	Computer aided drying operation	<i>National Symposium on application of computer in Chemical Engineering</i>	<i>IGCAR KAlpakk am</i>	1986
3.	Govindarajan, S, N. Anantharaman, S. Krishnamoorthy	Synthesis and Characterization of Certain oil modified alkyd resins	25 th Annual <i>convention of Chemists</i> held at Calcutta from 23.12.1988 to 27.12.1988.	<i>Calcutta</i>	1988
4.	Manavalan, I N. Anantharaman	Noise Pollution in Industries the Whys and Why- nots	<i>National Symposium on Environmental studies for sustainable development,</i>	PSG college of Arts and Science, Coimbat ore	1990
5.	Anantharaman, N S. Krishnamoorthy	Technical Education and Industrial Development in backward areas	<i>All-India conference on Technical Education and Industrial development in backward areas</i>	Mohame d Sathak Enginee ring college, Kilakara i, India	1990.
6.	Anantharaman, N H.J. Prabhu	Fluidised bed Anaerobic bio-	<i>All-India seminar on Fluidisation</i>	Instituti on of	1990

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		methanation-A review'	<i>Technology applications and</i>	Engineers (I), Coimbatore center at CIT Coimbatore	
7.	Balasubramanian, N N. Anantharaman	Fluidised bed drying of granular materials'	<i>IChE '95 annual conference</i>	<i>IGCAR Kalpakkam</i>	1995
8.	Mahalakshmi, N. Anantharaman and S. Sundaram	Studies on Vapour pressure of Solutions'	<i>CHEMCON-98, 51st Annual session of IChE</i>	Andhra University, Visakhapatnam	1998
9.	Anantharaman, N and S. Sundaram	Comparative study of drying of Raagi in Fluidized bed and Infra-red dryer	<i>CHEMCON-98, 51st Annual session of IChE</i>	Andhra University, Visakhapatnam	1998
10.	Karthik Narayanan and N. Anantharaman	RTD studies on Semifluidisation	<i>CHEMCON-99, 52nd Annual session of IChE</i>	Panjab University, Chandigarh	1999
11.	Raghunath, K., N. Anantharaman, P. Shunmugasundaram and S. Sundaram	Studies on Vapor pressure of Solutions	<i>CHEMCON-2000 53rd Annual session of IChE</i>	Science city, Calcutta,	2000
12.	Rajkumar, P. Vaidyanathan, J. Sarat Chandra babu and N. Anantharaman	Experimental Studies on Hydrodynamics of Three Phase fluidization	<i>CHEMCON-2000 53rd Annual session of IChE</i>	Science city, Calcutta,	2000
13.	Anantharaman, N, P. Sivashanmugam, K.M. Meera Sheriffa Begum and T. Mohan Rao	Studies on Treatment of Dairy waste water using Three-Phase fluidisation	<i>CHEMCON 2001, 54th Annual session of IChE.</i>	Chennai	2001
14.	Sridhar, T, P. Siva Shanmugam, K.M.	Process Integration Study of Ammonia Plant	<i>International Symposium on recent trends in Heat and</i>	IIT Guwahati	2002

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	MeeraSheriffa Begum and N. Anantharaman		<i>Mass transfer</i>		
15.	S. K. MasudHossain, N. Anantharaman and S.H. Ibrahim	Studies on lignin biodegradation of Bagasse using <i>P.chrysosporium</i> ,	<i>CHEMCON 2002</i> ,	Osmania university, Hyderabad, .	2002
16.	S. K. MasudHossain, and N. Anantharaman	Studies on aerobic biodegradation of aromatic amine (aniline) using <i>P.chrysosporium</i>	National coference on Biological treatment of Waste water and waste air.	RRL, Tiruvan andapur am,	2003
17.	L. Gurunathan, K.M. MeeraSheriffa Begum and N. Anantharaman	Fluidized bed drying with internals	CHEMCON 2003	RRL, Bhubane shwar	2003
18.	S. Saravanan, K.M. MeeraSheriffa Begum, N. Anantharaman, P. Siva Shanmugam and K.C. Velappan	Removal of Chromium (VI) from aqueous solutions by Emulsion liquid membrane	CHEMCON 2003	RRL, Bhubane shwar	2003
19.	R.ArulGnanaraj,N .Anantharaman and K.M.MeeraSheriffa Begum	Experimental Study on Composting of Press Mud	<i>CHEMCON 2005</i> ,	Delhi	2005
20.	S.M.GirirajKumar ,R.Sivashankar, N.Anatharaman,V .Dharmalingam	Design of controller for a Linear System based on Genetic Algorithm	<i>Proceedeings of National Conference on Recent Trends in Mechanical Engineering(RTME)</i> ,	Trichira palli,	2007
21	S.M.GirirajKumar ,R.Sivashankar, N.Anatharaman, V.Dharmalingam, R.Balasubramanian	Genetic Algorithm based design for improving controller performance in a higher order system	Proceedings of National Conference on Soft Computing Techniques in Process Control and Instrumentation	(AICTE sponsored), Chennai, India	2007
22	S.M.GirirajKumar ,	Stability Improvement of a	Proceedings of National Conference	Trichira palli,	2007

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	N.Anatharaman, V.Dharmalingam, Rajni Jain	FOPTD Process based on Genetic Algorithm	on Innovative Techniques in Advanced Electrical Engineering, (ITAE)		
23	S.M.GirirajKumar , Rajni Jain, N.Anatharaman and V.Dharmalingam	Design of Genetic Algorithm Based Controller for a Mechanical Modeled System	Proceedings of Emerging Trends in Mechanical Engineering (ETME-07),	Trichirappalli,	2007
24	M.JaleelRAhman, K.M. MeeraSgeriffa Begum and N. Anantharaman	Removal of Heavy metal ions from Aqueous and Industrial Effluent by Foam separation,	CHEMCON 2007		
25	S.Nithya, N.SivaKumaran, T. Balasubramanian and N.Anantharaman	IMC based controller design for a spherical tank process in real time	National Conference on Advanced Techniques in Instrumentation, control & communication Engineering,		2008.
27	S.ShanmugaPriya, M. Premalatha and N.Anantharaman	Feasibility studies on Solar Photo Degradation of Phenol	2 nd National conference on Advances in Energy conversion Technologies.		2008
28	N.Samsudeen, N.Anantharaman and Pol.Raviraj	CFD simulation studies on Performance of Rectangular Coil Heat Exchanger	AIP Conference proceeding,		2010
29	Vidya V, Lakshmi narsimhan M and Anantharaman N	Modelling of solids distribution in a CFB riser with pant-leg structure using Eulerian-Lagrangian method	National convention of chemical engineers and national seminar on biodegradable materials in chemical and pharmaceutical industries	IE(I) TN state centre , Chennai October 25-26, 2018	2018

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(B) Books & Monographs

Books:

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
V. Venkataramani and Dr.N.Anantharaman	Process calculations	Prentice Hall of India (P) Ltd., New Delhi	2003 – I Ed	ISBN-13: 978-8120323193
V. Venkataramani and N.Anantharaman K.M. Meera Sheriffa Begum	Process calculations	PHI Learning Private Ltd, Newdelhi	2011	ISBN: 978-81-203-4199-9
N.Anantharaman and K.M. Meera Sheriffa Begum	Elements of Mass Transfer Part – I	PHI Learning Private Ltd, New Delhi,Newdelhi	2005	ISBN-10: 8120327284 ISBN-13 : 9788120327283
N.Anantharaman and K.M. Meera Sheriffa Begum	Mass Transfer – Theory and Practice	PHI Learning Private Ltd, New Delhi,Newdelhi	2011	ISBN: 978-81-203-4169-2
N.Anantharaman	Know Cricket – Play Cricket	M/s. Sura Books (P) ltd, Chennai	1993 1994 and 2000	I Ed. ISBN : 81-85629-68-4 II Ed and III Ed 81-7254-050-7

Book Chapters

Author(s)	Title of Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Hossain. S. M, N. Anantharaman & Ibrahim. S. H	Biotechnological Applications in Environmental management Ed R K Trivedy and Sadhana Sharma (Studies on Aerobic biodegradation of aromatic amine (aniline) using <i>Phanerochaetechrysosporium</i> .)	M/s. BS Publications, Hyderabad, India	2004	ISBN: 8178000903

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	& (Studies on aerobic biodegradation of trichlorophenol using <i>Phanerochaetechryso sporium</i>)			
Anupama, R , Niju, S, Meera Sheriffa Begum K.M. and, Anantharaman, N	Advances in Bioprocess Technology Ed Ravindra , Pogaku (Agro-Residues as Fuel and as a Feedstock for Other Products)	Springer publishers	2015	ISBN: 978-3-319-17914-8
S Niju ,KM Meera S Begum and N Anantharaman	Energy Science and Technology Vol. 7: Bioenergy Ed: Ram Prasad, Sri Sivakumar and Umesh Chandra Sharma (Production of Biodiesel from Waste Frying Oil Using Heterogeneous Catalyst)	M/s. Studium Press LLC Houston, USA	2015	ISBN: 978-1-626990-68-5