

**Curriculum Vitae**  
**Dr. M.S.N.MURTY**  
**Professor**

**CONTACT INFORMATION:**

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Department of Chemical Engineering  
G V P College of Engineering  
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**Date of Birth:** 29/04/1967

**EDUCATION:**

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<b>Ph. D</b>	S V University	2010
<b>M. Tech</b>	Andhra University	1991
<b>B. Tech</b>	Andhra University	1989

**EMPLOYMENT:**

Organisation Name(s)	Designation	Scale of Pay	From	To
AP PAPER MILLS, RJY	Sr.PROCESS I/C	Consolidated Pay	1991	1999
MVGRCE, VZM	ASST.PROF	8000-275-13500	1999	2000
GMRIT, RAJAM	ASST.PROF	8000-275-13500	2000	2005
GMRIT, RAJAM	ASSOC.PROF	12000-420-18300	2005	2007
GVPCOE, VIZAG	Sr.ASST.PROF	10000-325-15200	2007	2009
GVPCOE, VIZAG	ASSOC.PROF.	15600-39100	2009	2012
GVPCOE, VIZAG	ASSOC.PROF.	37400- 67000	2012	2015
GVPCOE, VIZAG	PROFESSOR	37400- 67000	2015	Till date

**Details of Doctoral Thesis with Publications :**

Item	Description
Area of thesis work	Mass Transfer in Three phase fluidization
Title of thesis	Ionic mass transfer studies in three-phase Fluidized beds in the presence of disc Promoters
Supervisor	Dr. G.Prabhakar, Professor, SV University , Dr. P.Venkateswarlu , Professor, Andhra University
Year of award of Ph.D	Nov.2010
No. of papers published	International Journals: 2 National Journals : 1
	1. M.S.N. Murty, K.V. Ramesh, G. Prabhakar, P. Venkateswarlu, Ionic mass transfer studies in three-phase fluidized beds in the presence of disc promoter, Chemical Engineering Communications ,198 (8) 1018-1032 (2011). (Taylor & Francis).
	2. M.S.N. Murty, K.V. Ramesh, G. Prabhakar, P. Venkateswarlu, Phase holdups in three-phase fluidized beds in the presence of disc promoter, Experimental Thermal and Fluid Science ,35 (2011) 338-346. (Elsevier).
	3. G.V.S. Sarma, M.S.N. Murty, K.V. Ramesh, G.M.J. Raju, Wall-to-bulk mass transfer in gas-liquid upflow bubble column with disc promoter, Journal of Energy Heat and Mass Transfer, 33, 233-249 (2011). (IITM).

**Positions held:**

- Nodal officer -Procurement -TEQIP-II (Sept-2011- Till date)
- Dept PG coordinator ( 2010 to till date)
- Overall coordinator for GVP Foundation day celebrations - Dec 2012
- In-charge Head, Department of Chemical Engineering, GMR Institute of Technology, Rajam, for a period of Three months during sept 2006- Nov 2006.

**Lectures/Chaired Sessions/Invited Talks**

- Delivered lectures on Unit operations in Chemical Process Industries to Vasudha Pharma / Macred India Ltd., Employees.

## RESEARCH AREAS:

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Three-phase fluidization, Mass transfer , Process Design

## PH.D GUIDANCE

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Recognized as Co-supervisor by Andhra University and JNTU-K Kakinada

## M.TECH DISSERTATIONS

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### AWARDED: ( 4 )

1. S. Suresh, "Studies of mass transfer in concurrent gas liquid upflow bubble column using hourglass promoters" ( Project work AU) (2012). *Paper published in Journal of The Institution of Engineers (India) Series E.*
2. J.Divya, "Roll of Talc particle size influence in paint formulations ( Project work at R&D" , Golcha, Jaipur), A paper presented at CHEMICON-2013, International Chemical Engineering conference held at Institute of Chemical Technology, Mumbai, 27-30, Dec-2013
3. P.Satish Kumar, "Study of effective parameters for enrichment of Talc with column floatation" (Project work at R&D, Golcha, Jaipur), A paper presented at CHEMICON-2013, International Chemical Engineering conference held at Institute of Chemical Technology, Mumbai, 27-30,Dec-2013
4. M.Siva Prasad, Pilot Plant Studies On Dearomatization Of Kerosene, did project work at Chennai Petroleum Corporation , Chennai

### Registered for the current academic year 2015-16: (1)

1. M. Brahmaiah, (2014 admitted batch) Pilot Plant Studies On End point reduction of h: LVGO feed stock ( Currently doing project work at Chennai Petroleum Corporation Chennai

## PUBLICATIONS

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### International Journals : 11

1. G. V. S. K. Reddy, **M. S. N. Murty**, B. Srinivas, K. V. Ramesh , " Liquid-Wall Mass Transfer in Homogeneous Flow with Coaxially Placed String of Hemispheres" **Journal of The Institution of Engineers (India): Series E Chemical and Textile Engineering**, .95(2) 69–74, DOI 10.1007/s40034-014-0040-2, (2014) (ISSN 2250-2483) (Springer).
2. B. Niranjana Rao, B.S.G. Ramaprasad, **M.S.N. Murty**, and K.V. Ramesh "Mass Transfer at the Confining Wall of an Electrochemical Cell in the Presence of Angled Disc Promoter" **American Journal of Heat and Mass Transfer (Columbia International Publishing)**, 1 ( 3) 113-129 (2014)

3. B.S. Subramanyam, **M.S.N. Murty**, B. Surendra Babu, K.V. Ramesh, "Wall-to-Bed Mass Transfer in a Three-Phase Fluidized Bed with Twisted Tape as Internal", **Journal of The Institution of Engineers (India): Series E Chemical and Textile Engineering**, DOI 10.1007/s40034-014-0035-z, 95(1) 49–56 (2014)(Springer).
4. S. Suresh, **M.S.N. Murty**, B. Srinivas, K.V. Ramesh, Wall-to-bulk mass transfer in concurrent gas liquid upflow bubble column using hourglass promoters, **Journal of The Institution of Engineers (India) Series E**, 94(2) 91-96 (2013) (ISSN 2250-2483) (Springer).
5. B.S. Subramanyam, **M.S.N. Murty**, B. Surendra Babu, K.V. Ramesh, Wall-to-bed mass transfer in a fluidized bed with twisted tapes, **Advanced Chemical Engineering Research**, 2(2) 27-34 (2013).
6. G.V.S. Sarma, **M.S.N. Murty**, K.V. Ramesh, G.M.J. Raju, Wall-to-bulk mass transfer in gas-liquid upflow bubble column with disc promoter, **Journal of Energy Heat and Mass Transfer**, 33, 233-249 (2011). (IITM).
7. **M.S.N. Murty**, K.V. Ramesh, G. Prabhakar, P. Venkateswarlu, Ionic mass transfer studies in three-phase fluidized beds in the presence of disc promoter, **Chemical Engineering Communications**, 198 (8) 1018-1032 (2011). (Taylor & Francis).
8. **M.S.N. Murty**, K.V. Ramesh, G. Prabhakar, P. Venkateswarlu, Phase holdups in three-phase fluidized beds in the presence of disc promoter, **Experimental Thermal and Fluid Science**, 35 (2011) 338-346. (Elsevier).
9. K.V. Ramesh, G.M.J. Raju, **M.S.N. Murty**, C. Bhaskara Sarma, Wall-to-bulk mass transfer in a two-phase up-flow bubble column with a composite promoter, **Indian Chemical Engineer**, 51 (3) 215-227 (2009). (Taylor & Francis).
10. K.V. Ramesh, G.M.J. Raju, **M.S.N. Murty**, C. Bhaskara Sarma, Wall-to-bed mass transfer in three-phase fluidized beds in the absence and presence of a composite promoter, **Chemical Engineering Journal**, 152 (1) 207-211 (2009). (Elsevier).
11. P. Venkateswarlu, S.V. Naidu, D. Subba Rao, **M.S.N. Murty**, Performance Characteristics Of Ring Promoter In Homogeneous Flow Of The Electrolyte And In Fluidized Beds, **Chemical Engineering Communications**, 194, 1094–1110(2007) ISSN-0098-6445((Taylor & Francis).

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#### **National Journals : 09**

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1. Y.V.S.S.S.Kiran, P.U.R.Vital, K.Sarat Chandra, **M.S.N. Murty**, K.V. Ramesh, "Water flow split in commercial T-junctions with outlet ends open to atmosphere", **Chemical Technology an Indian Journal (TSI)**, 9(6) 205-211 (2014) ISSN : 0974 - 7443
2. A. Thriveni, B. Swathi, K. Sivadhanya, **M.S.N. Murty**, K.V. Ramesh, Gas holdup in a gas-liquid upflow bubble column in the presence of doublecone promoter, **Chem Xpress ( Global Scientific Inc)**, 6(4) 108-115 (2014) (ISSN(Print) : 2320 -1967)
3. K. Ashok Kumar, **M.S.N. Murty**, B. Srinivas, K.V. Ramesh, Mass transfer at the confining wall of an electrochemical cell with homogeneous flow in the presence of hourglass promoter, **Chemical Technology: An Indian Journal**, (In Press)

4. K. Sudha Rani, **M.S.N. Murty**, B. Srinivas, K.V. Ramesh, Wall-to-bed mass transfer and bed porosity in liquid-fluidized beds in the presence of hourglass promoter, **International Journal of Futuristic Science Engineering and Technology**, 1(4) 303-310 (2013).
5. B.S. Subramanyam, **M.S.N. Murty**, B. Surendra Babu, K.V. Ramesh, Studies on pressure drop and bed porosity in liquid fluidized beds with twisted tape internals, **The IUP Journal of Chemical Engineering**, 3(3) 30-43 (2011).
6. B.S. Subramanyam, **M.S.N. Murty**, B. Surendra Babu, K.V. Ramesh, Mass transfer at the confining wall of an electrochemical cell in the presence of twisted tapes, **The IUP Journal of Chemical Engineering**, 3(1) 23-34 (2011).
7. G.N. Ravi Shankar, **M.S.N. Murty**, G.M.J. Raju, K.V. Ramesh, Effect of viscosity on wall-to-bed mass transfer in a three-phase fluidized bed, **The IUP Journal of Chemical Engineering**, 2(4) 7-20 (2010).
8. **M.S.N. Murty**, K.V. Ramesh, G.M.J. Raju, Y.S.P. Narayana Rao, A Simplified Correlation for Forced Convective Heat Transfer in Tape Generated Swirl Flow of Air, **The IUP Journal of Chemical Engineering**, 1(2) 7-21 (2009).
9. K.V. Ramesh, K. Sarath Chandra, **M.S.N. Murty**, C. Bhaskara Sarma, Parametric effect of a helicoidal tape promoter on gas and liquid holdups of a three-phase fluidized bed, **The IUP Journal of Chemical Engineering**, 1 (1) 22-38 (2009).

#### **International Conferences: 11**

1. **M. S. N. Murty**, M. Ramya Sree, V. Kasiviswanatham and M.V.S.Sairam, "Gas Leak Detection and Monitoring System for Process Safety and Hazard Protection using WSN", CHEMCON 2015, 27th – 30th December, 2015, IIT Guwahati
2. G. Ravi Teja, T. N. S. S. Bhasker, **M. S. N. Murty** and G. Murali Dhar, "FSM-16 Ordered Mesoporous Material Supported Hydrotreating Catalysts: Promotional and Temperature Programmed Desorption Studies", CHEMCON 2015, 27th – 30th December, 2015, IIT Guwahati
3. L. Udaykiran, A. Kavya, M. Kiran Kumar, V. Sree Kavya and **M. S. N. Murty**, "Facile Recovery and Characterization of Chitin from Crustacean Shells", CHEMCON 2015, 27th – 30th December, 2015, IIT Guwahati
4. D. Tarun Kumar, P. Vasu, Ch. Sridhar, , **M.S.N. Murty**, 'Recovery of Chitin and Chitosan from shrimp shells', CHEMICON-2014, International Chemical Engineering conference held at University Institute of Chemical Engineering & Technology, Panjab University, 27-30 Dec 2014
5. B. S. Subramanyam , **M. S. N. Murty**, B. Surendra Babu, K. V. Ramesh, "Wall to Bulk Mass Transfer in a Gas-Liquid upflow Bubble column with loose fit Twisted tapes, Int. Conf. on Advances in Chemical Engineering and Technology, ICACE TKMCE '14 , Kollam, Kerala (pp 82–85) 16-18 Oct 2014 (Elsevier). ISBN 9789351072843
6. Ch. Sridhar, David Kumar, **M.S.N. Murty**, 'Recovery of Chitin and Chitosan from shrimp shells', EBIO-2013, An International conference on Environmental Biotechnology and biodiversity held at AU, Visakhapatnam, 3-4, March, 2014

7. P.Sateesh Kumar, **M.S.N.Murty**, Ch.Suresh, J.Divya Lakshimi, 'Beneficiation of talc from pulverized talc mineral by using column flotation' CHEMICON-2013, International Chemical Engineering conference held at Institute of Chemical Technology, Mumbai, 27-30, Dec-2013
8. Joga Divya Lakshmi, Ch.Suresh , **M.S.N Murty** , P.Sateesh Kumar, ' Role of the talc particle size influence in paint formulations', CHEMICON-2013, International Chemical Engineering conference held at Institute of Chemical Technology, Mumbai, 27-30,Dec-2013
- 9 Dr **M S N Murthy**, Dr M V S Sairam, Dr N Bala Subrahmanyam, Prof. G Tirumala Rao, 'Measurement of gaseous quantities for process safety and hazard protection using fuzzy modeling' CHEMICON-2013, International Chemical Engineering conference held at Institute of Chemical Technology, Mumbai, 27-30,Dec-2013
- 10 Prof G. Tirumala Rao, Dr. M.V.S Sairam, Dr. **M.S.N Murty**, M. Yerranna Babu, "Gas Leak Detection and Monitoring System using WSN", CHEMICON-2012, International Chemical Engineering conference held at NIT, Jalandhar, 27-30,Dec-2012
- 11 N.Usha rani , B.Mohana Sree, **M. S. N. Murty**, G.Muralidhar, "Nano Structured as supporters for Hydrotrating catalysts-An overview". CHEMICON-2010, International Chemical Engineering conference held at Annamalai Nagar, Tamilnadu, 27-30, Dec-2010

#### **National Conferences : 03**

1. K.Aneesha, Ch.Sai Vams, K.Sundeeep, **M.S.N.Murty**, G.Murali Dhar "Environmental friendly catalyst based on Sulfated Nano Zirconia inside ordered mesoporous SBA-15, presented paper at National Symposium on nvironment(NSE-19) , Mahatma Gandhi University, Kottayam, 11-13, Dec 2014
2. Ravali Sree Boppana, B. Sreenivasulu, **M.S.N.Murty**, K.V.Ramesh, Control of mixed convection in Lid driven enclosures using conductive rectangular fins, Presented paper at National conference on Noval process Developments for Sustainable Industrial Practice, ( NDSIP-14), SVU, Tirupati, 12-13 Dec 2014
3. Prof G. Tirumala Rao, Dr. M.V.S Sairam, **Dr. M.S.N Murty**, M. Yerranna Babu, "Gas Leak Detection System with remote communication to centralized location", Accepted paper at National Symposium on Environment(NSE-18) , JNTU Anatapur, March11-13, 2013

#### **Details of Workshops, Seminars, Training Programmes Attended / Organized:**

1. Attended a International conference CHEMCON-2009 at AU during 26-30 Dec 2009
2. Attended Mission 10X- Faculty Development Program by WIPRO at GVPCOE 21st - 25th June 2010
3. Attended a Training programme on PMSS under TEQIP-II at Nagpur during 29-30 Aug 2011
4. Attended a workshop on PMSS under TEQIP-II at Hyderabad on 26 Mar 2012
5. Attended a workshop on MIS under TEQIP-II at Hyderabad during 14-15 Feb 2012
6. Organized a National workshop on "Advances in Separation Processes" at Dept. of Chemical Engineering, GVPCOE(A) under TEQIP-II , during 12-16 March 2012
7. Attended a FDP programme by TCS on Leadership skills at GVPCOE on 21 Jun 2012

8. Organized a FDP programme on "Finite Element Analysis" at Dept. of Chemical Engineering, GVPCOE(A) under TEQIP-II , during 31 Oct- 3 Nov 2012
9. Attended a Training programme on PMSS under TEQIP-II at OUCE, Hyd , May 2013
10. Organized A Guest lecture on **Fuel Cells** by Dr. Ch.Satyanarayana, Principal Scientist, NCL, Pune at GVPCOE under TEQIP-II , on 25-11-2013
11. Organized A guest lecture on **Bio-fuels** by Dr.Meenakhi Sundaram, Head, R&D, Chennai Petroleum , at GVPCOE under TEQIP-II on 14-12-2013
12. Organized A guest lecture on **Computational techniques for simulation of suspension flow** by Dr.Anugrah Singh, Professor, IITG at GVPCOE ( RAMSA) under TEQIP-II on 24-12-2013
13. A guest lecture was organized on **Membrane Technology: Solving Industrial Problems** by the Dept. of Chemical Engg under TEQIP-II( S.C.1.2) on 27-08-2014
14. A Guest lecture on **Steam reforming of hydrocarbons – an industrial perspective** by Dr. K.K.A. Rashid , Advisor , R&D (formerly Vice President , R & D) Sud Chemie India Ltd, Cochin at GVPCOE under TEQIP-II on 2-3-2015.
15. Attended a work shop on **Academic leadership programme** for TEQIP Institutions (under TEQIP-II, Management capacity enhancement) IIM, Kozhikode, 22-27 June 2015
16. Attended a Guest lecture on **Chemical Engineering Industry- Their process trouble shooting guidance**, by Mr. Norman Lieberman (USA) at HPCL, Visakhapatnam, on 30-10-2015.

### **Memberships Associated:**

1. Life Member of Indian Institute of Chemical Engineers (LM-11003)
2. Life Member of Indian Society of Technical Education (LM-40309)
3. Fellow of Institution of Engineers (India) (F-112713-2)
4. Life member in membrane society ( LM-202)
5. Life member in IQAC

### **COURSES TAUGHT**

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**Post Graduate Level:** Chemical Process Equipment design, Membrane Technology, Chemical Process safety, Petroleum refining & petro chemicals.

**Undergraduate Level:** Mass Transfer I and II, Chemical Pprocess Equipment Design I and II, Membrane Technology.

### **SERVICES**

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#### **PROFESSIONAL SERVICE:**

#### **Reviewed articles for the following Journals and Conferences**

1. Chemical Engineering Communications (Taylor & Francis)

2. Journal of The Institution of Engineers (India) Series E (Springer).