Department of Chemical Engineering

1. Name : Dr. S.Sundaramoorthy
2. Designation : Professor and Head
3. D.O.B : 01 . 09 . 1963
4. Educational qualification : BE, M.Tech, Ph.D.
5. Work Experience
   a. Teaching : 22 years
   b. Research : 04 years
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : Process control
7. Subjects teaching at
   a. Under Graduate Level : Process dynamics and control
      Mass Transfer – I
      Chemical Reaction Engg. - II
   b. Post Graduate Level : Air pollution control
8. Research guidance
   - § Masters : 12 (completed)
   - § Ph.D : 01 (In Progress)

No of papers published in
- National Journals : Nil
- International Journals : 03
- Conferences : 09

9. Projects carried out :

Sponsored Research Projects Carried out

SI. NO	Title of project	Funding Agency	Amount in Ruppees	Status
1.	Development of Hybrid Fuzzy Controllers for complex chemical processes	AICTE, New Delhi	8.8 lakhs	Completed
2	Semibatch membrane seperation process for the treatment of industrial effluents- Experiments, model and optimal control	AICTE, New Delhi	13.6 Lakhs	Ongoing

10. Patents : Nil

11. Technology transfer : Nil

12. Research publications :

- 'Transport Phenomena In Solid State Fermentation: Oxygen Transport In Static Tray Fermentors',P.K.A Muniswaran , S. Sundaramoorthy , N.C.L.N.Charyulu, *Biotechnology. Bioprocess Engineering*, Vol 7,2002, pp 362-366.

- 'Quasilinear fuzzy model based control of pH in a neutralization reactor' , S. Sundaramoorthy, *Proceedings Of International Conference On Trends In Industrial Measurement And Automation*, MIT Chrompet , Chennai, January 1999, pp477 – 484.

- ' Control of pH using fuzzy gain scheduling techniques', S. Sundaramoorthy, K.Srinivasa Rao, *Proceedings of the national seminar on computer applications in chemical engineering*, CIT, Coimbatore, Dec.1997, pp 07-14.

- 'Fuzzy logic and neural controllers in process control', Ch. Durgaprasad Rao, S. Sundaramoorthy, Ramana Vithal, *Proceedings of the international symposium on AI & Expert system in process industries*, IIT, Kharagpur, Dec. 1994 pp 89- 102.

- Self Organising Fuzzy Logic Control of a liquid level process', S. Sundaramoorthy, N.R. Neelakandan, Ch. Durgaprasad Rao, *Proceedings of the American control conference*, San Francisco, June 1993, pp 1150-1153

Conference Presentations

1. 'Phenol recovery by spiral wound reverse osmosis membrane', G.Srinivasan, R.Kirubakaran, S.Sundaramoorthy, D.V.R. Murthy, *Proceedings of the National Conference on Energy Efficiency: The Environmental Solution*, NIT, Tiruchirappalli, December 27-28,2007,pp 179-187

2. 'Experimental studies on the removal of phenol using spiral wound RO membrane', G.Srinivasan, R.Kirubakaran, S.Sundaramoorthy, D.V.R. Murthy, *Proceedings of the National Conference on Current Trends in Chemical and Biochemical Engineering*, S.V.University, Tirupathi, December 13-14, 2007, pp 39-43.

3. 'Performance of spiral wound RO membrane for the treatment of phenolic compounds', G.Srinivasan, G.Janaki, D.V.R.Murthy, S.Sundaramoorthy, *Proceedings of the International Conference on Cleaner Technologies and Environmental Management*, PEC, Pondicherry, India, January 4-6, 2007, pp 138-145

4. 'Recovery of dimethyl phenol using spiral wound RO membrane – experimental and parameter estimation studies', G.Srinivasan, G.Janaki, D.V.R.Murthy and

S.Sundaramoorthy, *Proceedings of National Conference on Recent Advances in Chemical Engineering*, S.V.University, Tirupathi, November 17-18, 2006, pp 67-72.

5. 'Recovery of phenol compounds using spiral wound RO membrane – experimental and parameter estimation studies', G.Srinivasan, R.Gopinathan, A.Saveetha, S.Sundaramoorthy, D.V.R.Murthy, *Proceedings of the National Conference on Environmental Conservation*, BITS, Pilani, India, September 1-3, 2006, pp 39-47.

6. 'Quasilinear fuzzy model based control of pH in a neutralization reactor', S.Sundaramoorthy, *Proceedings of International Conference on Trends in Industrial Measurement and Automation*, MIT, Chrompet, Chennai, India, January 7-11, 1999, pp 477-484

7. 'Control of pH using fuzzy gain scheduling techniques', S.Sundaramoorthy, K.Srinivasa Rao, *Proceedings of the National Seminar on Computer Applications in Chemical Engineering*, CIT, Coimbatore, India, December 4-5, 1997, pp 07-14

8. 'Fuzzy Logic and Neural Controllers in Process Control', Ch. Durgaprasad Rao, S.Sundaramoorthy, Ramana Vithal, *Proceedings of the International Symposium on AI and Expert System in Process Industries*, IIT, Kharagpur, India, December 15, 1994, pp 89-102

9. 'Self organaizing fuzzy logic control of a liquid level process', S.Sundaramoorthy, N.R.Neelakandan, Ch. Durgaprasad Rao, *Proceedings of the American Control Conference*, San Francisco, California, June 1993, pp 1150-1153

Publications in Refereed International Journals

1. 'Separation of dimethyl phenol using a spiral-wound RO membrane – Experimental and parameter estimation studies', G. Srinivasan, S. Sundaramoorthy, D.V.R. Murthy, *Desalination* (accepted for publication)

2. 'PID controller tuning for desired closed-loop response for SISO systems using impulse response', M. Ramasamy, S.Sundaramoorthy, *Computers and Chemical Engineering, Vol 32*, 2008,pp 1773-1788

3. 'Transport Phenomena in Solid State Fermentation : Oxygen Transport in Static Tray Fermentors', P.K.A. Muniswaran, S.Sundaramoorthy, N.C.L.N. Charyulu, *Biotechnology and Bioprocess Engineering*, Vol 7,2002, pp 362-366

13. Books published with details : Nil

Department of Chemical Engineering

1. Name : G. Srinivasan
2. Designation : Assistant Professor
3. D.O.B : 10 . 08 . 1971
4. Educational qualification : B.E; M.Tech
5. Work Experience
   a. Teaching : 09years
   b. Research : Nil
   c. Industry : 04 years
   d. Others : Nil
6. Area of specialization : Plant Design
7. Subjects teaching at
   a. under graduate level : Heat Transfer, Process Equipment Design, Biochemical Engg, Process Calculations, Industrial Pollution Abatement.
   b. post graduate level : Environmental Biotechnology.
8. Research guidance
   i. Masters : 06
   ii. Ph.D : -
   a. No of papers published in
   b. National Journals : Nil
   c. International Journals : 01
   d. Conferences : 05
9. Research Work : Currently doing Ph.D in Membrane seperation technology at NIT Suratkal as an external part-time candidate
10. Projects carried out :

SI. NO	Title of project	Funding Agency	Amount in Ruppees	Status
1	Removal and Recovery of Toxic contaminants from waste water by Reverse Osmosis	AICTE, New Delhi	4.6 Lakhs	Ongoing

11. Patents : Nil

12. Technology transfer : Nil

13. Research publications : Nil

Conference Presentations

(i) 'Phenol recovery by spiral wound reverse osmosis membrane', G.Srinivasan, R.Kirubakaran, S.Sundaramoorthy, D.V.R. Murthy, *Proceedings of the National Conference on Energy Efficiency: The Environmental Solution*, NIT, Tiruchirappalli, December 27-28,2007,pp 179-187

(ii) 'Experimental studies on the removal of phenol using spiral wound RO membrane', G.Srinivasan, R.Kirubakaran, S.Sundaramoorthy, D.V.R. Murthy, *Proceedings of the National Conference on Current Trends in Chemical and Biochemical Engineering*, S.V.University, Tirupathi, December 13-14, 2007, pp 39-43.

(iii) 'Performance of spiral wound RO membrane for the treatment of phenolic compounds', G.Srinivasan, G.Janaki, D.V.R.Murthy, S.Sundaramoorthy, *Proceedings of the International Conference on Cleaner Technologies and Environmental Management*, PEC, Pondicherry, India, January 4-6, 2007, pp 138-145

(iv) 'Recovery of dimethyl phenol using spiral wound RO membrane – experimental and parameter estimation studies', G.Srinivasan, G.Janaki, D.V.R.Murthy and S.Sundaramoorthy, *Proceedings of National Conference on Recent Advances in Chemical Engineering*, S.V.University, Tirupathi, November 17-18, 2006, pp 67-72.

(v) 'Recovery of phenol compounds using spiral wound RO membrane – experimental and parameter estimation studies', G.Srinivasan, R.Gopinathan, A.Saveetha, S.Sundaramoorthy, D.V.R.Murthy, *Proceedings of the National Conference on Environmental Conservation*, BITS, Pilani, India, September 1-3, 2006, pp 39-47.

Publications in Refereed International Journals

1. 'Separation of dimethyl phenol using a spiral-wound RO membrane – Experimental and parameter estimation studies', G. Srinivasan, S. Sundaramoorthy, D.V.R. Murthy, *Desalination* (accepted for publication)

14. Books published with details : Nil

Department of Chemical Engineering

1. Name : Garlapati Chandrasekhar
2. Designation : Assistant Professor
3. D.O.B : 27 . 08 . 1974
4. Educational qualification : M.Tech ; (Ph.D)
5. Work Experience
   a. Teaching : 08years
   b. Research : Nil
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : Process Engg. and Super Critical Extraction
7. Subjects teaching at
   a. under graduate level : Mass Transfer and Transport Phenomena
   b. post graduate level : Nil
8. Research guidance
   i. Masters : 03
   ii. Ph.D : -

   No of papers published in
   a. National Journals : Nil
   b. International Journals : Nil
   c. Conferences : Nil
9. Projects carried out : Nil
10. Patents : Nil
11. Technology transfer : Nil
12. Research publications : Nil
13. Books published with details : Unit operations in chemical Engg: Theory & Problems, Published by " Pearson education Asia (Singapore) Pvt Ltd.

Department of Chemical Engineering

1. Name : R.Sridar
2. Designation : Lecturer
3. D.O.B : 27 . 02 . 1976
4. Educational qualification : M.Tech
5. Work Experience
   a. Teaching : 06 years
   b. Research : Nil
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : Petroleum Refining and Petrochemicals
7. Subjects teaching at
   a. under graduate level :
      i. Momentum transfer, Chemical Engg. Thermodynamics, Chemical Reaction engg. , Biochemical engg, Petroleum refining , petrochemical technology.
   b. post graduate level : Nil
8. Research guidance
   i. Masters : 03
   ii. Ph.D : -
      1. No of papers published in
      2. National Journals :
      3. International Journals :
      4. Conferences :
9. Projects carried out : Setting up Petroleum products testing laboratory for the Government of Pondicherry.
10. Patents : Nil
11. Technology transfer : Nil
12. Research publications : Nil
13. Books published with details : Nil

Department of Chemical Engineering

1. Name : Mrs K. Priya
2. Designation : Lecturer
3. D.O.B : 16 . 09 . 1980
4. Educational qualification : B.Tech ; M.E
5. Work Experience
   a. Teaching : 4 years
   b. Research : Nil
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : Biochemical Engineering
7. Subjects teaching at
   a. under graduate level : Transport Phenomena, Mechanical operations, Elements of Biotechnology, Chemical Engg. Thermodynamics , biochemical engineering,chemical process industries.
   b. post graduate level : Nil
8. Research guidance
   a. Masters : Nil
   b. Ph.D : Nil

No of papers published in
   a. National Journals : Nil
   b. International Journals : Nil
   c. Conferences : Nil

9. Projects carried out : Nil
10. Patents : Nil
11. Technology transfer : Nil
12. Research publications : Nil
13. Books published with details : Nil

Department of Chemical Engineering

1. Name : Ms T. Pallavhee
2. Designation : Lecturer
3. D.O.B : 13 . 05 . 1982
4. Educational qualification : B.Tech ; M.Tech
5. Work Experience
   a. Teaching : 2 years 8 months
   b. Research : Nil
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : Environmental Engineering
7. Subjects teaching at
   under graduate level : Process Engg. Economics, Mass transfer II, New separation techniques

   post graduate level : Environmental Biotechnology, Air Pollution Control .
8. Research guidance
   a. Masters : Nil
   b. Ph.D : Nil

No of papers published in
a. National Journals : Nil
b. International Journals : Nil
c. Conferences : Nil

9. Projects carried out : Nil
10. Patents : Nil
11. Technology transfer : Nil
12. Research publications : Nil
13. Books published with details : Nil

Department of Chemical Engineering

1. Name : Ms S. Usha
2. Designation : Lecturer
3. D.O.B : 08 . 02 . 1982
4. Educational qualification : B.Tech ; M.Tech
5. Work Experience
   a. Teaching : 2 years 8 months
   b. Research : Nil
   c. Industry : Nil
   d. Others : Nil
6. Area of specialization : -
7. Subjects teaching at
   i. under graduate level : Energy Technology and Management, Risk and Safety Management in Process Industries, Petroleum Refining and Petrochemical Technology, Polymer Science and Technology, Pollution Control and Safety in Process Industries.
   ii. post graduate level : -
8. Research guidance
   a. Masters : 01
   b. Ph.D : Nil

No of papers published in
   a. National Journals : Nil
   b. International Journals : Nil
   c. Conferences : Nil

9. Projects carried out : Nil
10. Patents : Nil
11. Technology transfer : Nil
12. Research publications : Nil
13. Books published with details : Nil