

## RESUME



1. Name :Dr.S.Sobana
2. Date of Birth :04.06.1967
3. Permanent Address :NO 14, Elegant Flat, 61 Gandhi Road,  
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4. Address for correspondence : NO 14, Elegant Flat, 61 Gandhi Road,  
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5. Passport Number :F0086737
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7. Community Category : BC,OBC(outside TN)
8. Caste (Name) :Vokkliga Gowder

### 11. EDUCATIONAL BACKGROUND:

S.No.	Type of Qualification		School/ Institute/ University	Major Subject	Year of Pass	% of marks/ CGPA	Mode
	Level	Title					
1.	Secondary	X	Govt High School, Pannaipuram	General	1982	84%	Regular
2.	Higher Secondary	XII	Alvernia Matriculation School, Coimbatore- 641045	Mathematics, Physics and Chemistry	1984	76%	Regular
3.	U.G.	B.E.	Tamilnadu College of Engg/ Bharathiar University, Coimbatore- 641659.	Instrumentation and Control	April 1988	60%	Regular
4.	P.G	MS	BITS, Pilani	Electronics and Control	1995	7.9	Distance Educatio

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5.	P.G.	M.E	Anna University, Guindy, Chennai-25.	Control and Instrumentation	April 2003	6.7	Regular
6.	Doctoral	Ph.D	Chemical Engg Department, CSIR- CLRI, Chennai-20/ Anna University, Guindy, Chennai- 25.	Process Control (Identification, Modeling and Control of Continuous Desalination Process Using Reverse Osmosis)	Nov 2013	NA	Part Time

### 12. EMPLOYMENT DETAILS (Starting from the latest):

No.	Name of the Employer	Type of Job (Teaching/ Research/ Industry)	Date of		Position
			Joining	Leaving	
1.	Easwari College of Engg, Affiliated to Anna University.	Teaching	June 2007	Till Date	Asst Prof(SI.Grade)
2.	Jerusalem Engg College Affiliated to Anna University	Teaching	Jan 2006	Jan 2007	Asst Prof
3.	Sathyabama University	Teaching	May 1996	Oct 2005	Asst Prof, Sr .Lecturer
4.	Arulmigu Kalasalingam College of Engg Affiliated to Madurai Kamaraj University	Teaching	July 1990	May 1996	Lecturer

### 13. Anna University Supervisor with the reference number: 2330223

Serial No	Name of the student	Reg.No	Year of Admission	Research Area
1.	Indumathy.M	1524399828	August 2015	Modeling, Identification and Control of Diary Process Industry

2.	Kavin.F	1514399799	August 2015	Modeling, Identification and Control of Beverage Process Industry
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14. Organized MOES sponsored “National conference on Water treatment, Reuse, Modeling and Control of desalination process” on 24<sup>th</sup> and 25<sup>th</sup> September 2014 in EIE Department of Easwari Engg College, Chennai.

15. Resource person for Anna University sponsored FDTP on 9/12/2014 AN and 11.12.2014 AN at Sri Ramakrishna Engg College,Coimbatore.

**16. MAJOR DUTIES HANDLED IN THE PREVIOUS COLLEGE FROM 2007- 2015:**

**(a)Department level Duties:**

- a. Department R&D in-charge from 2012 to 2015
- b. Process Control Lab In charge from 2007 to 2015
- c. Department Cycle test, Class test coordinator from 2011 to 2015
- d. Class coordinator from 2007 to 2011.
- e. Class Chair person from 2007to2015.
- f. Symposium organizer in the year 2010.
- g. Helped to organize seminar, workshop and conference from 2007 to 2015
- h. Department Discipline in charge.
- i. Guided two sets of Students projects per year.
- j. Counselor for the student from 2007 to 2015.

**(b)Institute level Duties:**

- a.NBA Accreditation Department In-Charge
- b.NAAC Accreditation Department In-Charge

- c. Anna University affiliation Department In-Charge
- d. 5S Auditor from 2011-2015
- e. Stock Verification auditor from 2010-2016
- f. Anna University Department news letter In charge from 2011 to 2015.
- g. Science Association member
- h. Convocation committee member
- i. Anna University Department Practical exam In charge

### **17.PROJECTS:**

- a. One project proposal has been submitted for RPS in January 2015.
- b. One project proposal has been submitted to MOWR

### **18. LIST OF PUBLICATIONS: (Annexure are from ANNA UNIVERSITY Annexure list) -International Journal**

1. Rames, C. Panda and **Sobana, S.** “Design of a PID controller from a predictive control algorithm”, Chemical Product and Process Modelling, Vol. 4, No.1, Article 29, 2009. **(Annexure-II)**
2. **Sobana, S.**, Srinivasan, A. and Rames C. Panda, “ Controlling a pH process using feedback and double controller scheme”, Sensors and Transducers Journal, Vol. 108, No.9, pp. 89 - 101, 2009.ISSN:1726-5479 ,
3. **Sobana, S.** and Rames C. Panda, “Control of pH process using double controller scheme”, Nonlinear Dynamics, Vol. 67, issue 3, pp.2267-2277 2011. Impact factor: 3.009 **(Annexure-I)**
4. **Sobana, S.** and Rames C. Panda, “ Review on modeling and control of desalination process using reverse osmosis”, Rev. Environ Sci and Biotechnology, Vol.10, No.2, pp. 139 - 150, 2011. Impact Factor: 2.263. **(Annexure-I)**
5. **Sobana, S.** and Rames C. Panda, “Identification, modeling and control of continuous reverse osmosis desalination system”, : A Review, Separation Science and Technology, Vol.46,No.4, pp. 551 - 560, 2011. Impact factor: 1.088. **(Annexure-II)**

6. **Sobana, S.** and Rames C. Panda, “Development of a transient model for the desalination of sea/brackish water through reverse osmosis”, *Desalination & Water Treatment*, Vol 51, pp. 2755-2767, 2013. Impact factor:0.987 (**Annexure-I**)
7. **Sobana, S.** and Rames C. Panda, “Parameter estimation of reverse osmosis process model for desalination”, *International Journal of Computer and Technology*, Vol 11, No 6, pp. 2668-2681, Nov, 2013. *ISSN: 2277-3061*
8. **Sobana, S.** and Rames C. Panda “Modeling and Control of Reverse Osmosis Desalination Process using Centralized and Decentralized Techniques”, *Desalination*, Vol 344, pp 243-251,2014. Impact factor: 3.481 (**Annexure-I**)
9. **Sobana.S** and Rames.C.Panda, “Statistical regression and modeling analysis for reverse osmosis desalination Process”, *Desalination*, Vol.351,pp 120-127, October 2014. Impact factor: 3.481. (**Annexure-I**)
10. T. Narayani, Rames C Panda, **Sobana S.** and C. Muralidharan “Online Monitoring of Temperature Using Wireless Module in a Rotating Drum-Applicable to Leather Industries”, *Sensors & Transducers*, Vol. 190, Issue 7, July 2015, pp. 47-52. Impact factor: 0.705

#### **19. International Conferences (Paper presented):**

1. **Sobana, S.** and Rames C. Panda, “Controlling a pH process using double controller scheme”, *TIMA - 2009*.
2. **Sobana, S.** and Rames C. Panda, “Mathematical modeling of desalination process using reverse osmosis”, *CHEMCON-2010*.
3. **Sobana.S**, Indumathy.M and R.C.Panda, ”Parameter estimation, modeling and control of flow temperature cascade process” , *Race -2015*.
4. Shobana.R., R.C.Panda and **Sobana.S** ”Estimation and control of temperature in nitration process” in *TIAR -2015*.
5. Poornima.R, Narayani.T, **Sobana.S**, Malathy.S and R.C.Panda” Estimation and Control of Dicumyl Peroxide Reaction Process-*TIAR-2015*

#### **20.National Conference: (Paper presented)**

1. **Sobana.S** Poornima.R and R.C.Panda , ”Design of experiment, ANOVA and MANOVA modeling of reverse osmosis desalination process”. In National conference on Water Treatment, Reuse, Modeling and Control of Desalination Process” on 24<sup>th</sup> and 25<sup>th</sup> September 2014.
2. **Sobana.S**, AR. AanandSundar and R.C.Panda, ”Identification and modeling of continuous desalination process using forward osmosis” ”. in National conference on

Water Treatment, Reuse, Modeling and Control of Desalination process” on 24<sup>th</sup> and 25<sup>th</sup> September 2014.

## 21. Programs Participated:

Serial No.	FDP, Conference, Workshop and Seminar.	
1.	Anna University sponsored FDTP on Process Control from 8.12.2014 to 14.12.2014	Participated
2.	National Instruments Educator’ Day 2013 on 2 <sup>nd</sup> September 2013.	Participated
3.	“DCS and PLC overview” by Yokogawa India Ltd from 29.07.2013 to 02.08.2013.	One week training
4.	Board of Research in Nuclear Science sponsored National Seminar on “Development of Sensors in Industrial Applications “ by EIE Department of Easwari Engg College on 26 <sup>th</sup> and 27 <sup>th</sup> september2013	Participated
5.	Texas Instruments Sponsored “Analog System Design using Texas Instruments Analog System Lab Kit” on 25 <sup>th</sup> and 26 <sup>th</sup> July 2013, conducted by EIE Department of Easwari Engg College.	Participated
6.	MOES sponsored Seminar on “Environment science and engineering” on 10 <sup>th</sup> and 11 <sup>th</sup> January 2013 conducted by EIE Department of Easwari Engg College.	Participated
7.	National Instruments Educator’ Day 2013 on 16 <sup>th</sup> and 17 <sup>th</sup> October, 2012.	Participated
8.	“Internal Auditor, ISO 9001-2008, Quality Management system and Audit training” conducted by Creative Management Consultant on 15 <sup>th</sup> September 2012 conducted by Easwari Engg College.	Training attended

9.	ICMR sponsored National Level Seminar on “Medical Imaging Techniques and Telemedicine” conducted by EIE Department of Easwari Engg College.	Participated
10.	Chemical Engg Department of IIT, Madras organized “Trends in Process Control on 3 <sup>rd</sup> March 2012	Participated
11.	A joint venture of IIT and IIS organized NPTEL Workshop on “System Identification (Part-2)” 4 <sup>th</sup> -6 <sup>th</sup> November 2011 conducted by IIT Madras.	Participated
12.	AICTE sponsored three days National Workshop on “Design and Implementation of Advanced Controllers for Nonlinear Systems using Labview ” by EIE Department of Velammal Engg College on 23 <sup>rd</sup> to 24 <sup>th</sup> June 2011.	Participated
13.	AICTE sponsored National Level Staff Development Programme on “Artificial Intelligence” organized by CSE Department of Easwari Engg College from 26/4/2010 to 09/05/2010.	Participated
14.	CSIR sponsored Workshop on “Intelligent Modeling and Control using MATLAB and LABVIEW” conducted by EIE Department of Easwari Engg College on 28 <sup>th</sup> to 30 <sup>th</sup> June 2010.	Participated
15.	Centre for Faculty Development of Anna University, Chennai organized the faculty development programme on “Process Control” on 1 <sup>st</sup> to 7 <sup>th</sup> December 2008.	Participated
16.	EIE Department of Easwari Engg College and Trident Techlabs Pvt.Ltd Bangalore organized Workshop on “Virtual Instrumentation –LabVIEW based Machine vision and Embedded applications on 8 <sup>th</sup> and 9 <sup>th</sup> February 2008.	Participated

17.	Centre for Faculty Development of Anna University, Chennai organized the faculty development programme on “Computer Networks and Networks Lab” on 19 <sup>th</sup> November to 1 <sup>st</sup> December 2007 conducted by Easwari Engg College..	. Participated
18.	AICTE Sponsored SDP on “Intensive Training on Theory and Practice of VLSI implement of DSP/Image Processing Algorithms” conducted by ECE Department of Easwari Engg College on 10 <sup>th</sup> to 22 <sup>nd</sup> June 2007.	Participated
19.	CSIR Sponsored Seminar on “Neuro-Fuzzy modeling to Process Control Applications” on 17 <sup>th</sup> to 18 <sup>th</sup> November 2006 by Kongu Engg College Perundurai, Erode.	Participated
20.	Centre of Medical Electronics, Anna University Chennai organized “International Conference on Biomedical Engg” on 24 <sup>th</sup> -26 <sup>th</sup> January, 2001.	Participated
21.	CSIR and Sathyabama Engg College organized Workshop on “Interfacing Add-On Cards with PCs” on 6 <sup>th</sup> and 7 <sup>th</sup> August, 1999.	Participated
22.	AICTE-ISTE-QIP-STTP course on “Process Control and Instrumentation: Theory and Lab” conducted by Regional Engg College, Tiruchirappali on 23 <sup>rd</sup> to 28 <sup>th</sup> March, 1998.	Participated

22. Annual professional membership in IET:membership no,1100327670

23. Indian Science Congress Association Membership No:A6459

**24. Reviewer in the following Journals:**

- a. International Journal of electrical Power and Energy System.
- b. International Journal of Environmental Science
- c. International Journal of Desalination and water treatment

(Dr.S.SOBANA)