

**Dr. C. AHILAN**  
**PROFESSOR AND HEAD**  
 Department of Mechanical Engineering

**Educational Qualifications:**

Name of the Degree	Specialization / Branch	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
B.E	Mechanical Engineering	April 1997	PSG College of Technology	Bharathiyar University	71.12	FC
M.Tech	Manufacturing Technology	June 2007	NIT, Trichy	NIT, Trichy	8.7	FCWD
PhD	Production Engineering	February 2012	NIT, Trichy	NIT, Trichy	Awarded	Awarded

**Experience**

Name of the College / Industrial	Designation	Date of Joining	Date of Relieving	Experience		
				Years	Months	Days
<b>Teaching</b>						
Oxford Engineering College, Trichy	Professor	02-02-2011	Till now	2	10	-
National Institute of Technology, Trichy	Teaching Research Assistant	16-08-2001	30-03-2006	4	5	15
<b>Experience</b>				<b>7</b>	<b>3</b>	<b>15</b>
<b>Research</b>						
National Institute of Technology, Trichy	Project Assistant	31-03-2006	31-07-2007	1	4	-
National Institute of Technology, Trichy	Research Scholar	01-08-2007	01-02-2011	3	6	-
<b>Experience</b>				<b>4</b>	<b>10</b>	<b>-</b>
<b>Industry</b>						
Sivasakthi Pattern Works(P) Ltd, Gobichettypalayam.	Development Engineer	02-06-1997	31-07-2001	4	2	-
<b>Experience</b>				<b>4</b>	<b>2</b>	<b>-</b>
<b>Total Experience</b>				<b>16</b>	<b>3</b>	<b>15</b>

Seminars/Workshops Attended : 20

Membership : IWS Life Member

Subject Interest : Tool Engineering and Design  
Manufacturing Processes  
Applied Hydraulics and Pneumatics  
Energy Management

## **Research Publications**

### **International Journals**

1. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2009) Multi-objective optimization of CNC turning process using grey based fuzzy logic. *International Journal of Machining and Machinability of Materials*, **5**, 434-451. © 2012 Inderscience Enterprises Ltd. **(Annexure II)**
2. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2010) Application of Taguchi based grey relational analysis in multi-objective optimization of turning process. *Advances in Production Engineering and Management*, **5**, 171-180.
3. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2010) Grey based fuzzy logic approach in optimization of CNC turning process with multiple performance characteristics. *Journal of Machining and Forming Technologies*, **3 (3-4)**, 231-250. © 2004 - 2012 Nova Science Publishers.
4. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2010) Design and implementation of an intelligent controller for a split air conditioner with energy saving. *Journal of Advances in Modeling – Series C: Automatic Control (Theory and Application)*, Association for the Advancement of Modeling and Simulation techniques in Enterprises (AMSE), **65 (1)**, 21-40.
5. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2011) Online performance assessment of heat exchanger using artificial neural networks. *International Journal of Energy and Environment (IJEE)*, **2 (5)**, 829-844. ©2011 International Energy & Environment Foundation.

6. **Ahilan, C.,** S. Kumanan, N. Sivakumaran and J.Edwin Raja Dhas (2013) Modeling and prediction of machining quality in CNC turning process using intelligent hybrid decision making tools. *Applied Soft Computing*,**13**, 1543–1551 © 2012 Elsevier B.V.**Impact**

**Factor:2.65(Annexure I)**

### **International Conferences**

1. **Ahilan, C.,** S. Kumanan, R. Tamilselvan and N. Sivakumaran (2008) Multiobjective optimization of CNC turning process using Grey based Taguchi Method. *Proceedings of second International and 23rd AIMTDR conference*, IIT Madras, India, Dec 2008, 849-854.

2. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2009) Design and implementation of fuzzy logic controller for an air conditioner with energy saving. *7th Global Conference on Sustainable Manufacturing GCSM*, IIT Madras, India, Dec 2009, 57-62.

3. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2010) Modeling and analysis of cutting parameters influence on power consumption and surface roughness for CNC turning of AISI304. *2nd International Conference on Production and Industrial Engineering, CPIE*, NIT Jalandhar, India, Dec 2010, Article M003,1-6.

4. **Ahilan, C.,** S. Kumanan and N. Sivakumaran (2011) Prediction of shell and tube heat exchanger performance using artificial neural networks. *International Conference on Advanced Computing and Communication Technologies ACCT 2011*, RG Educational Society, Rohtak, India, Jan 2011, 307-312.