


## STAFF BIO – FORM

Name of the Institution : Sri Sairam Engineering College

Name of the Department: Mechanical Engineering

Staff ID: ET13ME04

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5	Nationality	:	Indian	
6	Community	:	OC	
7	Gender	:	Male	

8	Professional Societies Membership : NIL						
9	Experience in other Institutions:						
	Name of the Organization	Designation	Period		Nature of work	Experience	
			From	To		Years	Month
	Thangavellu Engg. College	Professor	1 <sup>st</sup> March 2012	2 <sup>nd</sup> March 2013	Teaching	1	
	Industrial Experience						
	Hindustan Dorr Oliver	Astt. Manager	1 <sup>st</sup> Mar 1986	31 <sup>st</sup> Oct 1991	Development	5	8
	Enmas Process Tech. (P) Ltd	General Manager	1 <sup>st</sup> Nov 1991	31 <sup>st</sup> March 2012	Development	21	5

	<b>Total Experience (A)</b>					<b>35</b>	<b>4</b>
<b>10</b>	<b>Experience in our Institution:</b>						
	<b>Name of the Organization</b>	<b>Designation</b>	<b>Period</b>		<b>Nature of work</b>	<b>Experience</b>	
			<b>From</b>	<b>To</b>		<b>Years</b>	<b>Month</b>
	Sri Sai Ram Engineering College	Professor	14 June 2013	Continuing	Professor	8	8
						<b>42</b>	<b>1</b>
	<b>Total Experience (B)</b>					<b>42</b>	<b>Years</b>
	<b>Total Experience (as on 01.01.2020)                      Grand Total (A+B)</b>					<b>41</b>	<b>Years</b>
<b>11</b>	<b>Details of Ph.D Guided / Guiding :</b>						
	NIL						
<b>12</b>	<b>Patents Details :</b>						
	NIL						
<b>13</b>	<b>International Conference (s) :</b>						
<b>14</b>	<b>National Conference (s) :</b>						
<b>15</b>	<b>International Journal Publications (Indicate WOS /Scopus Indexed) :</b>						
	Nil						
<b>16</b>	<b>National Publications (Indicate WOS /Scopus Indexed) :</b>						
	1. 'Some Computational Aspects of Radiative Heat Transfer' Sixth National Heat & Mass Transfer Conference. I.I.T. Madras (1981). 2. 'Numerical Comparison of Radiative Heat Transfer Models' , Reg J Energy Heat & Mass Transfer , v 4, n 4 (1982) pp 239 - 248. 3. 'Fluidized Bed Combustion in Energy Saving', Workshop on Fuel Conservation in Combustion Device - I.I.T. Bombay, n6, (1982).						

	<p>4. 'Choice of Particle Diameter in FBC' Reg J of Energy Heat &amp; Mass Transfer, v 11 (1), pp 61 - 66 (1987).</p> <p>5. 'Role of Fluidized Bed Combustion in the Indian Context'. Energy Management , v 11 , n4 , (1987).</p> <p><b>This was rated as a best paper in a seminar organized by NPC and participated among others by BHEL, ISGEC, IGNIFLUID, Thermax, Cethar Vessels and other boiler manufacturers.</b></p> <p>6. 'Parametric Study of Fluidized Bed Coal Combustion', Energy Management , Oct - Dec (1989).</p> <p>7. 'Fluidized Bed Roasting of Chalcopryrite : A Wet Process'. Energy Management , Oct - Dec (1992).</p>
	<p>8. 'Modeling Stream Generators. An objected oriented approach '. First National Conference on Objected Oriented Technology (1997).</p> <p>9. "Synergy between Indian Engineering Institutes and industries", WOSA 2014, S. Vaidyanathan &amp; A. Rajendra Prasad</p> <p>10. "Simulation &amp; Modeling of Pressure Part Scantling As per International Codes"; 2015IEEE International Conference on Computing and Communication Technologies.</p>
<b>17</b>	<b>Programs Organized :</b>
	NIL
<b>18</b>	<b>Programs Attended:</b>
	NIL
<b>19</b>	<b>Funds Received from AICTE,/ UGC / DST/ TNSCST, etc:</b>
	NIL
<b>20</b>	<b>Contribution to the Department :</b>
	NIL
<b>21</b>	<b>Contribution to the College :</b>
	NIL

22	<p><b>Any other relevant information:</b></p> <p><b>Consultancy work:</b></p> <p>Consultancy in <b>technical</b> software development for Thermal systems and <b>development in steam generators</b>, boilers and thermal equipment.</p> <p>A. Major consultancy work done is ;</p> <ol style="list-style-type: none"> <li>1. Software for the design and analysis of scantling of steam generator as per ASME, BS, ISO and IBR. This is one complete package and marketed by self. Written in Visual Basic linking AutoCAD</li> <li>2. Computerization of ASME steam table. This is basically a thermodynamics problem written in Visual Basic and Visual C++</li> <li>3. Software for the design and analysis of steam generator. This is partly in VC++ and partly in Visual Basic and includes software and hardware of boiler. It is a high level expansion of (1) including all aspects of steam generator; viz. combustion, heat transfer, fluid mechanics, engineering, structure and hardware.</li> <li>4. Cycle analysis</li> <li>5. Computerization of PTC 4.0</li> <li>6. Design of steam generator for bio mass. This is a consultancy work from TERI and first of its kind in India. Successfully commissioned in Dec 2003.</li> <li>7. Design and development of FBC boiler for saw dust for paper industry. This project got the award for most efficient and environment friendly award by CII.</li> <li>8. Consultant to Southern Railway for NMR (Nilagiri Mountain Railways) for conversion of their coal fired locomotive to oil fired locomotive. This got the award of best project in Indian Railway in the year 2002.</li> </ol>
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9. Retained as consultant by Enmas Andritz for development of Fluidized Bed combustion systems and Computer Aided Modeling.

10. Developing models both graphic and thermal for boilers.

11. Developing water tube fluidized bed boilers.

12. Solving problems related to 117 TPH, 105 bar AFBC boiler.

**13.** Designing and analysis of high pressure utility boiler and industrial boiler along with a Doosan Babcock licensee. Major activity is technology absorption of DB (UK) and its improvement.

**Invited lectures :**

SL.No.	INSTITUTE	SUBJECTS	HOURS	YEAR
1.	College of Engg, Goa	Steam generators & FBC	10	1986
2.	Institution of Engineers (*)	Fluidized Bed Combustion	2	1987
3.	I.I.T. Madras	Fluidized Bed Drying	6	1989
4.	I.I.T. Bombay	Fluidized Bed Combustion	3	1993
5.	I.I.T. Madras	Steam Generator Design (for PG)	12	1995
6.	National Productivity Council	Solid Fuel Combustion	3	1996
7.	I.I.T. Madras	Steam Generator Design	3	1998

	8	I.I.I. Bombay	Energy Efficient Technology	3	1999
	9	I.I.I. Bombay	General Project	Aug 2004 to Dec 2004	