

CURRICULUM VITAE



Dr.M.RAMARAO M.E,(Energy).,M.B.A., Ph.D .,

(MECHANICAL ENGINEERING)

No-45 Rani Nagar palipadi.

Vandigate,Lalpurampost-608602,

Chidambaram-t.k,

Cuddalore,

Tamilnadu,India

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PERSONAL PROFILE

Father Name	:MADHIALAGAN.G
Mother name	: Kasthuri.M
Date of Birth	: 13-02-1983, Age: 35
Marital status	: Married, Children-2
Sex	: Male
Religion	: HINDU

Nationality : INDIAN

Language Known : Tamil, English, (Speak and Write)

Passport number : G6276411

DATE OF ISSUE-05-12-2007

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Aadhaar No : 555967612346

Pan Number :AOBPR7760R

OBJECTIVE

- To be employed in a technically sound and challenging position that would utilize my education and skills

ACADEMIC QUALIFICATIONS

Degree	Specialization	Year of Passing	Full time / Part time / Distance Education	Agg. % / CGPA	Name of the Institution studied	Name of the Board / University
X – Std	GENERAL	1998	FT	67.8	N.L.C High School Neyveli,Block-26	State Board
XII – Std	GENERAL	2000	FT	60.6	N.L.C Higher Secondary School Neyveli, Block-10	State board

TECHNICAL QUALIFICATIONS

Diploma	MECHANICAL	2004	FT	60.7	Raja Desingh,PolytechnicCollege,Gingee	Dote
TECHNICAL	ITI(NCVT)M.M.V	2002	FT	80.7	Govt.ITI Chidambaram	Ncvt

PROFESSIONAL QUALIFICATIONS

UG	MECHANICAL	2008	FT	65	V.R.S College Of Engineering And Technology, Villupuram	Anna university
PG	ENERGY	2012	FT	8.40	Annamalai university, Chidambaram	Annamalai University
PhD	ENERGY	2017	FT	AWARD	Annamalai university, Chidambaram	Annamalai University
M.B.A	PERSONNEL	2010	DDE	50	Alagappa University	Alagappa University

OTHERS QUALIFICATIONS

DIPOLMA COURSE	DIS	2010	DDE	55	Vinayaga mission University salem	Vinayaga mission University
PG-DIPOLMA	PGDMM	2012	DDE	60	Annamalai university, Chidambaram	annamalai university

EXPERIENCE**1. ENGINEERING COLLEGE EXPERIANCE**

Sl.No.	Name of the concern	Position	Period	
			From	To
1.	Annai Teresa College Of Engineering, Thirunavalur, Ulundurpet	Assistant Professor	2-07-2012	30-05-2013

Sl.No.	Name of the concern	Position	Period	
			From	To
2.	K.K.C College of engineering and technology	Head Of Department	1-06-2013	30-12-2013
3.	Annamalai university, Chidambaram, Tamilnadu	Research Scholar	Jan 2014	Dec 2016
4	Holly marry institute of technology college of science Hyderabad	Assistant Professor	Feb2017	Sep2017
5	Holly marry institute of technology college of science Hyderabad	Associate Professor	Oct2017	Till date

2.Polytechnic Experience

S.No.	Name Of The Concern	Position	Period	
			From	To
1	Sri Annamalai Polytechnic College,PadurUlundurpet	Lecturer	23-09-2009	16-08-2010
2	National institute of polytechnic	Head Of Department	August2011	March2012

3.Industry Experience

Sl.No.	Name of the concern	Position	Period	
			From	To
1	Saraswathi engineering construction pvt,ltd,neyveli	Mechanical Supervisor	3-05-2004	24-6-2005

CENTRAL GOVERNMENT SPONCERED PROJECTS

S.No	Name of the Central government Sector	Title of the Project	Amout	Status
1.	Department of Science and Technology(DST) – FIST 2017	Experimental Analysis of Heat Transfer Effect of Nano Fluids Under Solar Energy Radiation.	3,41,83,000	Under review
2.	ATAL Incubation Centre	Design, Fabrication and Marketing of Bio Gas Plant	10,00,00,000	Under review

NATIONAL -INTERNATINAL /SEMINAR PRESENTATION

- Recent developments of Hydrogen Engine in Automobiles at 30 th AUGUST Annamalai university sponsors by UGC
- BIO- FUEL and its application in IC engine at 05-06 MARCH 2011 Annamalai University sponsored by DRDO

NATIONAL -INTERNATIONAL /WORKSHOP/ SHORT TERM TRAINING/ CONFERENCE SEMINAR PRESENTATION

1. Recent developments of Hydrogen Engine IN Automobiles at 30 th AUGUST Annamalai university sponsors by UGC
2. BIO- FUEL and its application in Ic engine at 05-06 MARCH 2011 Annamalai university sponsored by DRDO
3. One Day Short Term Training Programmed On Technical Advancement CAD/CAM/CAE Automation Technologies M/S Trident Tech labs Pvt Ltd Chennai Conducted By V.R.S College Of Engg&Tech 08 FEBRUARY,2013
4. Two Day Short Term Training Programmed On bio-fuel engine and its application-BEF 2013 Conducted By Annamalai University 21-22 FEBRUARY,2013

5. Two Day Short Term Training Programmed On Industrial safety, health and environment” Conducted By Dr.NavalarNedunchezhiyan college of engineering Tholudur, 15-16 MARCH ,2013
6. Two Day Short Term Training Programmed on international workshop on research methodology and ” Conducted By karpagavinayaga college of engineering and technology Chennai ,Madurandagam Taluk 03, MARCH ,2013
7. **DST-NRDMS** Sponsored training programmed on” geospatial technology-theory and using open source Gis- softer” conducted by department of civil engineering Kalasalingam University .Krishnan Koil from 26-08-2015 to 28-08-2015
8. One Day Workshop on “Solar Energy systems opportunities challenges & deployment” organized by institute for energy studies –IES Anna University Chennai held on 31st august 2015
9. National workshop on solid And E-waste management jointly organized by department of civil engineering and environmental of bit held on 21st February 2015
10. Two days workshop research methods and tools organized by department of mechanical engineering AVC college of engineering Mayiladuthurai From 06-11-2014 to 07-11-2014
11. The ISTE approved short term training Programmed on mat lab applications in science and engineering – MASE”-15 Organized by department of electronics & instrumentation engineering Annamalai University Chidambaram and engineering during 08-06-2015 to 12-06-2015
12. **UGC** sponsored one day workshop on recent trends in vehicle technology by department of automobile engineering MIT campus Chennai held on 28th February 2015
13. 8th -National conference on recent trends in automobile mechanical and civil engineering-RTAMCE-15 held on march 8th 2015 organized by the department of mechanical & civil engineering on has presented a paper experimental investigation of fuel gas behavior of mixed biomass fuel in fluidized bed gasification
14. Xxiv Prof K.S Sonachalam memorial research methodology workshop organized by the department of economics Annamalai University 6th-9th January 2015
15. The **UGC** sponsored two days workshop on green manufacturing concepts –gmc-2015 held during 16 and 17th February 2015 organized by the department of production MIT Chennai .

16. The national level workshop on advanced power electronic converter and its control techniques for renewable energy systems 'organized by department of electrical and electronics engineering **SRM** university on 23-01-2015 to 24-01-2015
17. The national level seminar on advances in biofuels and bioenergy. organized by department of chemical engineering A.C college of technology Anna university,Chennai on 24-10-2016 to 25-10-16
18. ."Experimental Investigation of fuel gas Behavior of Mixed Bio-Mass fuels in Fluidize Bed Gasfication"Proceedings of National Conference On Recent Trends In Automobile Mechanical & Cvil Engineering-RTAMCE-15 ,S.A Engineering College ,Chennai
19. ."Effect of Biomass Blending on Gasification a review" National Conference on Emerging Trends In Mechanical Engineering(NCETME-17), SNS College of Engineering-Coimbatore

RESOURCE PERSON (GUEST LECTURE/VISITING CLASS)

1. Delivered a lecture on Renewable Energy Sources at om murga polytechnic college,kurinjjipadi.
2. delivered a lecture on role of Renewable Energy energy for rural development at ka.so.ka polytechnic college jayankondam.
- 3 delivered a lecture on Energy Conservation and Biomass Gasification technology at modern polytechnic ariyalur.
- 4.visiting class on Saturday and Sunday various subject handled in modern polytechnic college.
5. visiting class on Saturday and Sunday various subject handled in lourdAyyappa institute of engineering and Technology.
- 6.visiting class on Saturday and Sunday First Year Ge 6252 Engineering Graphics handled in vedhantha institute of technology. on 1-10-2016 to30-11-2016

REVIEWED RESEARCH PUBLICATIONS IN INTERNATIONAL JOURNAL

1. **Ramarao M.** and Vivekanandan S. (2016), the Effect of Mixing Ratio on Biomass Classification, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects -Taylor & Francis Publication, Vol.39, No.6, pp.546-554. (Annexure-I)

2. **Ramarao M.** and Vivekanandan S. (2016), Study on the Interaction Response of Biomasses on the Fluidized Bed Co-Gasification A Statistical Approach, Research Journal of Bio-technicalogy, World Research

3. **Ramarao M.** and Vivekanandan S. (2016), Statistical Approach To Predict The Gas Efficiencies Of Biomass Gasification Using Different Biomass, International Journal of Control Theory and Applications, Vol. 9, No.36, pp. 619-639.(Annexure II & Indexed in Scopus).chemical Journals, Vol.12(2), pp.88-100. (Annexure-I)

4. **Ramarao M.** and Vivekanandan S. (2016), Optimization of Fuel Blending Ratio to Enhance the Co-Gasification Performance, International Journal of Engineering Trends and Technology, Vol. 42, No. 7, pp.398-410.

5. **Ramarao M.** and Vivekanandan S. (2016), Evaluation of Carbon Conversion Efficiency of Mixed Biomass Gasification, International Journal of Mechanical Engineering and Technology, Vol. 7, No. 6, pp.565-576. (Indexed in Scopus).

6. **Ramarao M.** and Vivekanandan S. (2016), Empirical Relationship to predict the Gas Efficiencies of Biomass blends: an optimization study, international journal of chemical sciences, sadguru publications. vol.14, no.4, pp.2476-2504 (Annexure- II)

7. **Ramarao M.** and Vivekanandan S. Dr. V. Suresh P. Senthil kumar D. Jayaprakash, (2016), Effect of Biomass Blending on Gasification a review. Advances in natural and applied science Publication, Vol.11, No.14, pp.300-310 (Annexure-II)

TECHNICAL SKILLS

- Design Software: Auto CAD, Creo(Pro-E Wild Fire), Uni Graphics, CATIA,
- Analysis Software: Ansys 13.0.

SUBJECT HANDLED

- Design of Machine Elements
- Applied Hydraulic and Pneumatic System
- Finite element analysis
- Kinematics of Machinery
- Engineering Mechanics
- Manufacturing Technology – I & II
- Power plant Engineering
- Engineering Graphics
- Fluid Mechanics and Machinery
- Engineering thermodynamics
- Thermal engineering-1&11

ADDITIONAL RESPONSIBILITIES

- Admission Work
- As Exam cell co-coordinator.
- Workshop In charge
- Student Co-Ordinate
- Hostel Warden
- Member of National Service Scheme [NSS].
- Conducting Counseling for new students.
- Analysis Software: Ansys 13.0.

AREA OF INTEREST

- Materials and Manufacturing Process
- Solar System
- Nano fluids
- Biomass/Biogas
- Composite Materials.
- CAD/CAM/CIM/FEA

ACEMEDIC PROJECT WORK:

- Prepared a project, titled “**Mor’s Test (Multi Cylinder Engine)**” [DME Project].

Description: In IC engine are tested to check the performance under various operating condition the test are carried out to compare the result with theoretical result. Here the Morse test is used to find out Performance of multi cylinder Petrol engine.

- Prepared a Project, titled “**Safety Measure in Construction in thermal Power plant**” in Neyveli Lignite Corporation Ltd, Neyveli. [BE project].

Description: The project work is aimed to identification of inherent/latent hazards in various activities to formulate appropriate safety management strategies for a safe, productive and possibility to maintain an accident free environment till the completion of the construction activities of Thermal Power Stations.

- Prepared a Project, titled “**A Study on the Performance Appraisal in T.T.K health care limited, Chennai** [MBA project].

Description: From the study was appraising the performance of individual group and organization is a common practice of all societies while in some instances the appraisal process have structured and formally sanctioned I Other instances they are an integral part of daily activities.

- Prepared a Project, titled “**Performance Evaluation of Spiral Heat Exchanger**” Kongu Engineering college.Erode,Tamilnadu.[M.E Project]

Description: In this work, an attempt has been planned to evaluate the performance of the spiral heat exchanger, water will be used as hot fluid and chemicals are to be used as cold as cold fluid. The performance of the heat exchanger will be Evaluate by varying the various parameters and Thermal modeling of the data for analysis

- Prepared a Project, titled “**EXPERIMENTAL ANALYSIS OF GASIFIED BIOMASS BLENDS**” Annamalai university Chidambaram ,Tamilnadu.[Ph.d Project]

Description:The objective of this work was to assess the combined effects of the biomasses in three combinations such as Combination I includes rice husk (0-30% of total mass), coconut shell (0-60%of total mass) and wheat husk (0-25%of total mass); Combination II includes sugarcane bagasse (0-30%of total mass), coconut shell (0-60%of total mass) and wheat husk (0-25%of total mass); and Combination III includes corn stalk (0-30%of total mass), coconut shell (0-60%of total mass) and wheat husk (0-25%of total mass); in a fluidized gasification process, where the focus was to quantify the relationships between the response variables and vital operating factors. The carbon, hydrogen, oxygen and nitrogen percentage were found by elemental analysis, the volatile matter, fixed carbon and moisture content were found by the proximate analysis. Experiments performed in the fluidized bed gasifier.

REFERENCE

1. Dr. M.KARMEGAM.B.E.M.Sc.(Engg),Ph.D (london).Director of Centre for WaterResource
Anna University Chennai (Rtd) professor cell:9444023510
2. Dr.G.KAMARAJ.M.Sc.(Engg),Ph.D Professor /MechanicalEngineering
Annamalaiuniversity,Chidambaram(Rtd) Cell:9080030254
4. Dr. C.G.SARAVANAN M.E.Ph.D.,Proffessor and H.O.D/ Mechanical Engineering
Annamalaiuniversity,Chidambaram Cell:9843064772
5. Dr. Shanmugasundaram Sakthivel **Scientist-E** and Team Leader,
Centre for Solar Energy Materials, International Advanced Research centre for powder
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E-mail: ssakthivel@arci.res.in Tel : 91-40-24452454 Mobile:9490760104.

Declaration

I hereby declare that the above furnished details are correct and accurate to the best of my
knowledge and belief

PLACE :

DATE:

Yours sincerely,

(Dr.M.RAMARAO)