

FACULTY PROFILE

Personal:

Name : **Dr.H.M.Kadlimatti**
Associate Professor

Date of Birth : **1st June 1970**

Address : C-10, Basaveshwar Engineering College
Staff Quarters, GRBC Post, Vidyangiri
Bagalkot-587102, Karnataka

Phone : 08354 – 234397 (Dept)

E-Mail : hmkadlimatti@gmail.com



Education:

Qualification	Institute/University	Specialization	Year of award	Remarks
Ph.D.	NITK, Surathkal	Value added products from waste	2019	
M.Tech.	NITK, Surathkal	Industrial Pollution Control	2006	First Rank
B. E	Mysore University	Mechanical Engineering	1993	First Class With Distinction

Awards:

1. Recipient of **First Rank at M.Tech. degree (Industrial Pollution Control)** by Padmabhusan Dr. G. Madhavan Nair, Chairman, ISRO, Govt. of India at the 4th Convocation of NITK Surathkal held on 24-02-2007.



2. Appreciation letter from the Administrative officer B.V.V.Sangha Bagalkot on account of obtaining First Rank at M.Tech. degree
3. Certificate of Appreciation by Prof. Ashok Jhunjhunwala Chairman, QEEE Committee Indian Institute of Technology Madras, Chennai for being the part of QEEE programme, A MHRD initiative.
4. Certificate of Appreciation by B.E.C. Bagalkot for serving as a Resourceful facilitator during HRD training programme for First Year B.E. students.
5. Certificate of Appreciation as a tax payer in "Bronze" category in recognition of the contribution of taxes towards the building of India by Central Board of Taxes, Ministry of Finance, Government of India.
6. Recipient of "**Letter of Award**" by Dr. Akash Chakraborty, Associate Editor-Applied Sciences & Engineering, Springer (India) Pvt. Ltd. New-Delhi for winning "**Best Paper**" at the International Conference on "Energy and Environment: Global Challenges" held at NIT Calicut, Kerala during 9-10 March 2018.

Achievements:

VTU e-Shikshna Faculty Advisory Board recommended as one of the "**Course Experts in Heat Transfer (17ME63)**" subject for live transmission of classes under e-Shikshna programme-3 starting from February 2020.

Awarded Research Paper(s):

1. Research paper titled "**Physicochemical and Thermochemical Characterization of Food Waste-A Potential Biomass Resource for Biofuels**" has been adjudged as "**Best Research Paper**" of the International Conference on "Energy and Environment: Global Challenges" held at NIT Calicut, Kerala during 9-10 March 2018.

Awarded Projects (UG):

2. Project titled "**Mechanical Behavior of Wood Plastic Composites**" adjudged as '**Outstanding Projects of the year 2016 and selected for the Best Project Award**' at the 39th series State level SPP at Vijayapur jointly organized by KSCST IISc Campus Bengaluru and BLDECET Vijayapur during 19-08-2016 to 20-08-2016.

1. Project titled "**Mechanical Behavior of Wood Plastic Composites**" awarded with the '**Third Prize**' at the 12th series Shruti State level Project seminar cum exhibition held at CMR Institute of Technology Bangalore during 6-8 May 2016.

List of Publications:

National Conference(s):

3. **H.M.Kadlimatti**, Gangamma s, Varghese S.K. Flow Controlled Condensation Aerosols of Dioctylphthalate (DOP). Proceeding of the National Conference on Recent Advances in Mechanical and Materials Engineering, 30-31 October 2014, Basavakalyan Engineering College, Basavakalyan, Karnataka, India.

2. **H.M.Kadlimatti**, Gangamma s, Varghese S.K. Aerosol Generator. Proceeding of the National Conference on Environmental Conservation (NCEC-2006) 1-3 September 2006, BITS Pilani, Rajasthan, India.

1. **H.M.Kadlimatti**, Gangamma s, Varghese S.K. Design and Testing of Condensation Aerosol generator-Preliminary Results. Proceedings of the National Conference on Synergic Solutions for Sustainable Development, 28-30 December 2005, NITK Surathkal

International Conference(s):

3. **H.M.Kadlimatti**, Rajmohan B., and Saidutta M.B. "**Physicochemical and Thermochemical Characterization of Food Waste-A Potential Biomass Resource for Biofuels**". Proceedings of the International Conference on "Energy and Environment: Global Challenges", NIT Calicut, Kerala, 9-10 March 2018.

2. **H.M.Kadlimatti**, Gavish Vastrad. Kiran B. Channi, sangmesh P. Suligavi and Vishal Sarikdar. "Safflower Seed Husk Reinforced Plastics (SRP)". Proceedings of the International Conference on Advances in Mechanical Engineering Sciences, 21-22 April 2017, P.E.S. Engineering College Mandya, Karnataka, India.

1. **H.M.Kadlimatti**, Gangamma S, Varghese S.K. Aerosol. Generation of Monodisperse Aerosols through Condensation Nuclei control. Proceedings of the 15th International Conference on Modelling, Monitoring and Management of Air pollution, 23-25 April 2007, Algarve, Portugal, Europe.

International Journal Publication(s):

4. **H.M.Kadlimatti**, Rajmohan B. and Saidutta M.B. "Bio-oil from Microwave assisted Pyrolysis of Food Waste - Optimization using Response Surface Methodology. **Biomass and Bioenergy (Elsevier)** journal accepted this research article for publication on 21-01-2019.

3. **H.M.Kadlimatti**, Rajmohan B. and Saidutta M.B. "Microwave assisted Pyrolysis of Food Waste - Optimization fo Fixed carbon content using Response Surface Methodology. **Biofuels (Taylor and Francis)** journal accepted this research article for publication on December 28- 2018.

2. **H.M.Kadlimatti**, Gavish Vastrad. Kiran B. Channi, sangmesh P. Suligavi, Vishal Sarikdar. "Safflower Seed Husk Reinforced Plastics (SRP)". International Journal of Engineering Research in Mechanical and Civil Engineering, Vol 2. Issue 4, April 2017.

1. **H.M.Kadlimatti**, Gangamma S, Varghese S.K. Generation of Monodisperse Aerosols through Condensation Nuclei control. Transaction of Wessex Institute of Technology, London, UK, on '**Ecology and Environment**' Vol 101,pp 505-511,2007.

Book(s) published:

Condensation Aerosol Generator-A New Way to Aerosol Research. Lambert Academic publishers, Germany, April 2012.



An important element of aerosol technology is the production of test aerosols for calibrating instruments, conducting aerosol research, developing and testing air cleaning and air sampling equipment. Monodisperse aerosols are used to calibrate particle size measuring instruments and to determine the effect of particle size on sampling devices. A monodisperse aerosol is usually defined as an aerosol that has a geometric deviation of less than 1.2. In aerosol research, monodisperse test aerosols of known size, shape and density are highly desirable because most aerosol properties depend strongly on particle size, which is best controlled by using monodisperse aerosols. Tests made with a series of monodisperse aerosols, each having a different particle size, permit the evaluation of the effect of particle size on aerosol properties or the performance of instruments like impactor. Test aerosols also used for various types of inhalation studies like animal exposure to toxic substances, respiratory deposition in humans or animals and the administration of therapeutic aerosols.

H. M. Kadlimatti

Condensation Aerosol Generator

A New Way to Aerosol Research



H. M. Kadlimatti

H.M.Kadlimatti is presently working as Associate Professor in Mechanical Engineering at Sasveshwar Engineering College, Bagalkot, Karnataka, India. He completed his B.E. degree in Mechanical Engineering from the University of Mysore and M.Tech in Industrial Pollution Control with First Rank from NITK Surathkal, India.



978-3-8465-4314-6



Subjects taught:

Sl.No.	Name of subject	UG/PG
01	Heat and Mass transfer	UG
02	Power Plant Engineering	UG
03	Fluid Machinery	UG
04	Applied Thermodynamics	UG
05	Fluid Mechanics	UG
06	Elements of Mechanical engineering	UG

Areas of in Interest/ Research:

- Title of Ph.D. thesis : Microwave assisted pyrolysis of food waste to biochar and biofuels
- Title of M.Tech. thesis : Design and testing of Condensation Aerosol Generator
- Areas of interest : Heat transfer, pollution control and Value added products from waste

List of Projects guided, Sanctioned and Funded by Karnataka

State Council for Science and Technology, IISC Campus,

Bangalore:

Sl. No	Title of the project	SPP Series and Year	Remarks
05	Mechanical Behavior of Wood Plastic Composites Amount:Rs.5000.00	39 th series 2016	Selected for state level presentation held at BLDECET Vijayapur- 19-20 August 2016
04	Pollution Control issues of Sugar Industries of North Karnataka-A Case study. Amount: Rs.2000.00	30 th series 2007	
03	Analysis of variation of temperature profiles over heated horizontal cylinder	2000-2001 24 th Series	Selected for State level exhibition at SLNCE Raichur-21-22 December 2001
02	Determination of Convective Heat Transfer Coefficients for different Reynolds numbers	1997-1998 21 th Series	
01	Design and testing of portable solar drier	1996-1997 20 th Series	Selected for State level exhibition at SMVIT Bangalore-26-27 December 1997

Membership(S) of Professional Bodies:

Sl. No.	Type of Membership and number	Name of society
01	Life-LM24460 Since 1997	Indian Society for Technical Education
02	Life-LMC1083 Since 2008	Combustion Institute – Indian Section

Guest Lecture(s) Delivered:

Sl. No	Topic	Institute/College	Date
01	Monodisperse Aerosols	B.V.V.S. Polytechnic	10-09-2008

Administrative Responsibilities:

Sl. No.	Nature of work (Chairman, coordinator, member etc.)	Worked for (University, college, etc.)	Year
01	Director, B.E.C. Employees Co-Operative Credit Society	College	1999-2001
02	Coordinator, Mechanical Engineering Association	Department	2003-2004
03	Coordinator, UG Projects	Department	2006-2007
04	BEC Autonomous Member, Board of Examinations	Department	2007-2009
05	Coordinator, Department Library	Department	2008-2012
06	Department Coordinator, KSCST Projects	Department	2008
07	Coordinator, BEC Autonomous Valuation Centre	College	2009
08	Coordinator, BEC Autonomous Valuation Centre	College	2014
09	Board of Studies member (BOS)	Department	2018-
10	Board of Examination Coordinator	Department	2019-