

## FACULTY-PROFILE



**Name** : H. KANAGASABAPATHY  
**Designation** : Professor & Head  
Department of Mechanical Engineering  
P.S.R. Engineering College, Sivakasi,  
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**Date of Birth** : 22-08-1964

**Highest Qualifications** : M.E., Ph.D - Mechanical Engineering

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### ACADEMIC CREDENTIALS :

Degree	Programme/ Specialization	Class & Percentage Marks/CGPA*	Month & year of passing	University
Ph.D.	Torospherical Heads with Knuckle of Variable Thickness	Awarded	Apr 2010	Manonmaniam Sundaranar University
M.E.	Analysis and Design of Process Equipments	I Class & 71.5%	Feb 1994	University of Allahabad
B.E.	Mechanical Engineering	I Class & 67%	April 1986	Madurai Kamaraj University
Diploma	Indust. Safety	First Class	Dec 2002	Annamalai University
H.S.C.	Maths, Physics & Chemistry	I Class & 71.25%	March 1982	Board of Hr.Secondary Education
S.S.L.C.	Maths and Science	I Class & 73.2%	April 1980	Board of Secondary Education

## RESEARCH ACTIVITIES:

**Area of Ph.D.** - "Torispherical Heads with Knuckle of Variable Thickness" completed during 2010 from Manonmaniam Sundaranar University Tirunelveli.

**Area of Specialization:** FEA, Pressure vessels, Composite Materials

### Ph.D. Scholar details :

- Total Ph.D. Scholars registered - 10
- Scholars completed their Ph.D. - 4
- Number of scholars submitted thesis and evaluation report received - 2
- Number of scholars pursuing - 4

## EMPLOYMENT DETAILS:

Name of the company/ organisation	Position	From	To	Total no of Experience
P.S.R Engineering College	Professor & Head	May 2019	Till Date	
National Engineering College	Professor	Aug 2012	30.05.2019	6 Years 9 months
National Engineering College	Associate Professor (Senior)	1st Nov 2011	July 2012	9 Months
National Engineering College	Associate Professor	1st June 2009	31 Oct 2011	2 Years 5 Months
National Engineering College	Assistant Professor	14 <sup>th</sup> June 2004	30 <sup>th</sup> May 2009	5 Years
National Engineering College	Senior Lecturer	1 <sup>st</sup> July 1999	13 <sup>th</sup> June 2004	5 Years
National Engineering College	Lecturer	July 1992	30 <sup>th</sup> June 1999	6 Years
National Engineering College	Associate Lecturer	Jan. 1990	July 1992	2 Years 6 Months
MSPVL Polytechnic College, Pavorchatram	Associate Lecturer	20 <sup>th</sup> June 1988	Jan. 1990	1 Year 6 Months
Cordite Factory, Aruvankadu	Practical Trainee.-	05.05.87	05.05.88	1 year

• **JOURNAL PUBLICATION (INTERNATIONAL AND NATIONAL)**

Sl.No	Title of the Article	Title of the Publisher	Month & Year
1.	Vibrations of an orthotropic shallow spherical shell on a Pasternak Foundation	Composite Structures	Volume 31, 1995. Pp 135-142.
2.	Large deflection of an orthotropic shallow spherical shell on a Pasternak Foundation	International Journal of Pressure Vessels and Pipings	Volume 62, 1995. Pp 117-122
3	Large deflection of an orthotropic shallow Cylindrical shell on a Pasternak Foundation	Composite Structures	Volume 31, 1995. Pp 31-37.
4	Vibrations of an orthotropic shallow spherical shell on a Kerr Foundation	International Journal of Pressure Vessels and Pipings	Volume 64, 1995. Pp 17-24
5	Orthotropic shallow spherical shell on a Kerr Foundation	ASME Journal of Pressure Vessel	Volume 119, Feb 1997. pp 131-133.
6	Design of bucket Elevator for conveying powdered Material as an alternate Pneumatic in a cement industry.	Journal of Cement Energy and Environment	Volume 6, No2, April-June 2002. Pp 19-22
7	Stress analysis at Knuckle of variable thickness in Torispherical end vessels using Axisymmetric shell finite element,	Journal of Structural Engineering,	Volume 35, No 2, 2008. Pp 102-107.
8	Estimation of Stresses at Knuckle of Variable Thickness in Torispherical Heads.	International Journal of Applied Engineering Research	Volume 4, No 5, 2009. Pp 789-804.
9	Parametric Analysis of Cotton Shell and Palmyra Palm Fruit Bunch for Bio Oil in Fixed Bed Pyrolysis System	International Journal of Applied Environmental Sciences	Volume 9, Number 5, 2014, pp:2427-2436
10	Flash pyrolysis of Palmyra palm (Borassus flabellifer) using an electrically heated Fluidized bed reactor	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	, VOL. 38, NO. 12, 2016, pp1699–1705
11	Production and Characterization of phenolic compounds by flash pyrolysis of Palmyra palm	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Volume 38 Number 15, 2016 pp. 2161-2169
12	Production and Upgradation of Cotton Shell Pyrolytic Oil for Biofuel from Flash Pyrolysis by Fluidized Bed Reactor	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	Volume 85, Number 3, 2015, Pp:457–462
13	Cotton shell utilization as a source of biomass energy for bio-oil by flash pyrolysis on electrically heated fluidized bed reactor	Journal of Material Cycles and Waste Management	Volume 18, Number 1, 2016, pp:146-155
14	Dry sliding wear behaviour of al 7075 t6 coated by plasma Spray process	Advanced Materials Research	Vols. 984-985 (2014) pp 551-556

15	Evaluation of corrosion behaviour for aluminium alloy 7075 in 5% NaCl Solution under slightly varying temperature	Advanced Materials Research	Vols. 984-985 (2014) pp 557-563
16	“Condition monitoring of Self aligning carrying idler (SAI) in belt-conveyor system using statistical features and decision tree algorithm.”	International Journal of Measurement	Vol. 58 (2014): pp 274-279
17	Heat transfer analysis on briquetting machine die using ANSYS,	International journal for applied engineering research.	Vol. 10 No.24 (2015), pp: 21025-21029
18	Static Multiple, Distributed Piezoelectric Actuator Structural Deformation and Bending Analysis Using COMSOL	Materials Today: Proceedings	5 (2018) 11516–11525
19	Analysis Of Perforated Piezoelectric Sandwich Smart Structure Cantilever Beam Using COMSOL	Materials Today: Proceedings	5 (2018) 12025–12034
20	optimization of parameters of cantilever beam using novel bio-inspired algorithms: a comparative approach”,	Journal of Computational and Theoretical Nano science	Vol. 15 (2018), pp: 66-77,
21	Conversion of cotton residues to bio-oil and chemicals through flash pyrolysis in a fluidised bed reactor	Int. J. Energy Technology and Policy,	Vol. 14, No. 1, 2018 pp 20--33
22	Fault diagnosis of self-aligning troughing rollers in belt conveyor system using k-star algorithm	Measurement , Elsevier	Vol.133 (2019) pp: 341–349
23	Influence of abrasive water jet machining parameter on performance characteristics of AA7075-ZrSiO4-hBN hybrid metal matrix composites	Materials Research Express	Vol. 5 (2018)
24	Flash Pyrolysis of Lemon Grass ( <i>Cymbopogon flexuosus</i> ) for Biooil Production in an Electrically Heated Fluidized Bed Reactor	Waste and Biomass Valorization, Springer.	Vol.9 pp.1037–1046 (2018)
25	Fault Diagnosis of self aligning troughing rollers in a belt Conveyor system using an artificial neural network and Naïve Bayes algorithm.	Emerging trends in Engineering for Society, Energy and Environment, Taylor & Francis Group, London,	(2018) ISBN 978-0-8153-5760-5 pp. 401-408
26	Combination of Agricultural Waste and Saw Dust into Biomass Material for Briquette	Indian Journal of Ecology (2019) 000-000	Vol.46(1) ( accepted)
27	“Multi-Component Fault Diagnosis Of Self Aligning Troughing Roller (Satr) In Belt Conveyor System Using Decision Tree – A Statistical Approach”,	Journal of Faculty of Mechanical Engineering (2019),	(Accepted for Publication).

**PUBLICATION IN INTERNATIONAL AND NATIONAL LEVEL  
CONFERENCES**

Sl.No	Title of the Paper	Title of the Conference	Organizer	Month & Year
1	Alternate Fuel for IC Engines – Methanol	NSMTA-2002	Rajarambabu Institute of Technology, Islampur, MS.	Aug 1-2,
2	Value Engineering- A Situational case study	BIT, Mesra	BIT, Mesra, Ranchi.	July 26-27,2003
3	Performance Analysis of Bio-Fuel in SI Engines	RAME-2004	K.K.Wagh College of Engineering, Nashik,MS.	17-18 Jan 2004
4	Role of Safety Audit in Safety Management	Annamalai University	Annamalai University, Chidambaram	28-29 Feb 2004
5	Performance study of on a Two wheeler engine using Methanol as Fuel.	TIME-2004	Kakatiya Institute of Technology and Science, Warangal.	27 Dec 2004. pp 26-28
6	Finite Element Analysis of stresses at juncture in thin cylindrical shell with hemispherical dome.	International conference EAST–2005	Noorul Islam College of Engineering, Kumaracoil.	pp. 1068-1084 , 16-17 Dec 2005
7	Minimization of stress concentration at Knuckle in Torispherical ends by using finite element method	National Conference - Product Life Cycle 2007	Kongu college of Engineering, Perundurai, Erode	2 & 3 March 2007 1.9-D22
8	Minimization of stress concentration at Knuckle in Torispherical ends by using finite element method using two node axisymmetric shell elements	National Conference MSME-2007	Panimalar Engg.College, Chennai	16 <sup>th</sup> March 2007 pp.33-39
9	Stress analysis at variable thickness in Torispherical End Vessels using axisymmetric shell finite elements.	International Conference on ICADEM,	Sethu Institute of Technology, Kariapatti Tamilnadu, India	2007
10	Minimize the stress concentration at knuckle in torispherical end vessels using axisymmetric shell element	2 <sup>nd</sup> international Conference (RAMPT'09)	National Engineering college, K.R.Nagar, Kovilpatti. Tamilnadu, India.	2007
11	Parametric analysis on flash pyrolysis of cotton shell wastes for bio oil in fluidized bed reactor	International Conference on Energy and Sustainability in Engineering Systems (ICESSES– 2014)	Coimbatore Institute of Technology, Coimbatore	16th, 17th & 18th December 2014
12	. "Fault diagnosis of Self Aligning carrying Idler (SAI) in Belt-Conveyor System	International Conference on Computational	Vels University, , Chennai, India	Vol. 2. No. ISBN -

	using Statistical Features and Support Vector Machine."	Intelligence & Advanced Manufacturing Research. (ICCIAMR)		978-81-924031-
13	Heat transfer analysis on briquetting machine die using ANSYS	International conference on advances in design & manufacturing 2014(ICAD&M'14).	National Institute of Technology, Tiruchirappalli	2014
14	Studies on Physical and chemical properties of sawdust briquette	National conference on Renewable energy Innovations for Rural Development (REIRD14) Dindhugal	Gandhigram Rural university, Dindicul ,	2014
15	An Illustrative model for the computation of course outcome attained	17 <sup>th</sup> ISTE TN & P Section annual convention & conferment of Life Achievement Awards -2014	National Engineering College, K.R.Nagar, Kovilpatti-628503	07 <sup>th</sup> and 8 <sup>th</sup> Nov. 2014
16	Vibration based fault detection and condition monitoring using Decision Tree Algorithm for training carrying idlers in Belt-Conveyor System."	International Conference on Mechanical Engineering Design 2016	SSN College of Engineering, Chennai, India	April 2016
17	"Multi Component Fault Diagnosis of Induced Draft Fan by Statistical Features and Decision Tree Algorithm (IDF) in Coal based Thermal power Generation System."	International Conference on Mechanical Engineering Design, 2016	SSN College of Engineering, Chennai, India	April 2016
18	Condition Monitoring of Induced Draft Fan (IDF) installed in Coal based Thermal power Generation plants by Statistical Features and Decision Tree Algorithm	National Conference "Recent Trends In Automotive Manufacturing In Industries-2016" (Rtami-2k16 )	Saveetha School of Engineering. Chennai	April 2016.
19	Multi Component Fault Diagnosis of Induced Draft Fan by Statistical Features and Decision Tree Algorithm (IDF) in Coal based Thermal power Generation System	National conference on 'Recent Advances in Mechanical Engineering' (RAIME-2016)"	National Engineering college Kovilpatti conducted on,	1 <sup>st</sup> April 2016.
20	Application of Decision Tree Algorithm for classification and identification of faults in drive pulley of centrifugal discharge belt bucket elevator	International Conference on Recent Trends in Engineering Technology	St Joseph Institute of Technology, Chennai	April 2016.

		(ICRTET-2016)”		
21	Application of Decision Tree Algorithm for classification and identification of faults in Self Aligning Training idlers (SAT) in bulk material handling Belt Conveyor Systems”	International Conference on Futuristic Engineering, Science and Technology - ICRTET 2016)”	Agni College of Technology Chennai	May 2016
22	Mechanical Characterization of fiber reinforced with Nano composite plates	National Conference on “Recent advancements in Mechanical Engineering” (NCRAME’16 )	VV College of Engineering, Thisayanvilai	April 2016.
23	“Static Multiple, Distributed Piezoelectric Actuator Structural Deformation and Bending Analysis using COMSOL”, ,	ICMMM - 2017,	VIT Vellore	9-11 March 2017.
24	“Analysis of Perforated Piezoelectric Sandwich Smart Structure Cantilever Beam using COMSOL”,	ICMMM - 2017,.	VIT Vellore,	9-11 March 2017
25	2018,’ Fault diagnosis of self-aligning troughing rollers in a belt conveyor system using an artificial neural network and Naive Bayes algorithm’,	Proceedings of the International Conference in Emerging Trends in Engineering, Science and Technology (ICETEST 2018),	Vol. 02, pp. 401-408, CRC Press 401 ISBN: 978-0-8153-5760-5 (Hardback) ISBN: 978-1-351-12414-0 (eBook)	
	Fault Diagnosis of self aligning troughing rollers in a belt Conveyor system using an artificial neural network and Naïve Bayes algorithm.	Emerging trends in Engineering for Society, Energy and Environment, Taylor & Francis Group, London,	(2018) ISBN 978-0-8153-5760-5 pp. 401-408	

### **FACULTY DEVELOPMENT PROGRAMMES ORGANIZED**

1. Two day Work shop on “**INDUSTRIAL SAFETY ENGINEERIG-2004**” for X-Zone Anna University, Chennai, Final year students in Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti on 22<sup>nd</sup> and 23<sup>rd</sup> Jan 2004
2. One day Work shop on “**TIME – MANAGEMENT**” organized by ISTE Staff Chapter, National Engineering College, K.R.Nagar, Kovilpatti on 30 Aug. 2008- Resource person: Mr.P.Tenzing, M.B.A, Excel Trainer, HRD consultant.

3. One day Work shop on “**DESIGN OF EXPERIMENTS**” organized by ISTE Staff Chapter, National Engineering College, K.R.Nagar, Kovilpatti on 1<sup>ST</sup> November 2008- Resource person: Prof. Murugan Professor CIT Coimbatore.
4. One day Work shop on “**INSTITUTIONAL SELF ASSESSMENT**” organized by ISTE Staff Chapter, National Engineering College, K.R.Nagar, Kovilpatti on 4<sup>th</sup> April 2009
5. Two days Work shop on “on “**CAN BUS IMPLEMENTATION PRACTICE FOR MECHANICAL ENGINEERS**” organized by Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti on 25<sup>th</sup> and 26<sup>th</sup> July 2013
6. Coordinator - Faculty development program on “**ENGINEERING MECHANICS**” Centre for faculty development, Anna University organized by Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti on 16<sup>th</sup> to 24<sup>th</sup> Dec 2013
7. Coordinator – **Faculty Development program ‘Advance modeling’ (CATIA V5 Training)** by **Adroit CAD Solutions Pvt. Ltd., Chennai**. Organized by Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti on 10.06.2015 to 12-06-2015
8. Coordinator – FDP- one day workshop on “**Active And Blended Teaching Methodology**” by Dr. A. Arockiarajan, Professor, Department of Applied Mechanics, IIT-Madras, Chennai, organized by Department of Mechanical Engineering, National Engineering College, K.R.Nagar, and Kovilpatti on 13.06.2015.
9. Coordinator - One day workshop on “**SECRET OF SUCCESS TO IMPROVE EMPLOYABILITY SKILLS**” of our final year Mechanical and Electrical Engineering students on 18.09.2017. Mr.Nargunam, Managing Director, Excel Die Casting, Chennai

#### **GUEST LECTURE-ACADEMIC**

1. Guest lecture on “**ENGINEERING DESIGN**” for Mechanical Engineering students, Cape Institute of Technology, Levingipuram, Rajakrishnapuram(po), Radhapuran Taluk, Trinelvei(Dt) on 31 March 2009.
2. Guest lecture on “**FINITE ELEMENT ANALYSIS**” for Mechanical Engineering students, Cape Institute of Technology, Levingipuram, Rajakrishnapuram(po), Radhapuran Taluk, Trinelvei(Dt) on 1 Nov 2010.
3. Guest lecture on “**KINEMATICS OF MACHINES**” for Mechanical Engineering students, S.Veerachamy Chettiar College of Engineering and Technology, Puliankudi, Trinelvei(Dt) on 5<sup>th</sup> August 2012.
4. Resource person for Faculty Development Training Programme on 06.06.2016 in the title of ‘**Govt. Funded Agencies for project**’ of Mharphrem college of Engineering and Technology, Nagercoil.
5. Resource person for Association Inaugural on 26.06.2015 and lecture on ‘**Engineering Mechanics**’ in of Shivanth Adiththananar College of Engineering, Thiruchendur.



6. Resource person for Faculty Development Training Programme on Engineering **Thermodynamics-ME6301** on 06.06.2016 (AN) and 07.06.2016 (FN) in Sri Vidya College of Engineering and Technology, Virudhunagar.
7. Resource person for Faculty Development Training Programme on **Engineering Thermodynamics-ME6301** on 06.06.2016 (AN) and 07.06.2016 (FN) in Sri Vidya College of Engineering and Technology, Virudhunagar.
8. Resource person for two week Faculty Development Training Programme on **Sources of Information** on **NEW GEN EDC, sponsored by DST New Delhi** on 08.12.2016 in National Engineering College, Kovilpatti.
9. Resource person for two week Faculty Development Training Programme on **Sources of Information** on **NEW GEN EDC, sponsored by DST New Delhi** on 12.12.2017 in National Engineering College, Kovilpatti.
10. Resource person for **'Energy Awareness Program in Tamilnadu Match Industry Association, Kovilpatti** on Dec 12, 2017
11. Resource person for Short Term Training Programme on "**Composite Structures: Theory, Manufacturing, Mechanics & FE Modeling**" during May 7-11, 2018 Institute Industry Partnership Cell (IIPC), MSEC association with FRP Institute, Chennai. Lecture on "**Fundamentals of FEA**" on 08.05.2018
12. Resource person for two week Faculty Development Training Programme on **Sources of Information** on **NEW GEN EDC, sponsored by DST New Delhi** on 7.12.2018 in National Engineering College, Kovilpatti.

#### **GUEST LECTURE-INDUSTRY**

1. Training on '**Modeling and Analysis using Finite Element Analysis**' to **MRF Pvt Ltd, Chennai** through Adroit Design Solution, Chennai and on 16-17 and 23-24 sep 2011.
2. Training on '**Modeling and Analysis using Finite Element Analysis**' **Saipem India Projects Pvt Ltd. Chennai** through Adroit Design Solution, Chennai.
3. Training on '**Modeling and Analysis using Finite Element Analysis**' to **CENTRAL WATER COMMISSION New Delhi** through Adroit Design Solution, Chennai. 4-6 July 2014 and 21-22 Non 2014

#### **ORGANIZED NATIONAL /INTERNATIONAL CONFERENCES**

1. Co-ordinator- Two day National Conference on "RECENT ADVANCES IN MECHANICAL ENGINEERING -2009" (RAIME'09) Organised by Department of Mechanical Engineering. National Engineering College, K.R.Nagar, Kovilpatti on **13<sup>th</sup> and 14<sup>th</sup> March 2009**.
2. Co-ordinator- Two day National Conference on "RECENT ADVANCES IN MECHANICAL ENGINEERING -2010" (RAIME'10) Organised by Department of Mechanical Engineering. National Engineering College, K.R.Nagar, Kovilpatti on **26<sup>th</sup> and 27<sup>th</sup> March 2010**.
3. Co-ordinator- Two day National Conference on "RECENT ADVANCES IN MECHANICAL ENGINEERING -2013" (RAIME'13) Organised by Department

- of Mechanical Engineering. National Engineering College, K.R.Nagar, Kovilpatti on **22<sup>nd</sup> and 23<sup>rd</sup> March 2013.**
4. Co-ordinator- one day National Conference on “RECENT ADVANCES IN MECHANICAL ENGINEERING -2014” (RAIME’14) Organised by Department of Mechanical Engineering. National Engineering College, K.R.Nagar, Kovilpatti on **20<sup>th</sup> and 21<sup>st</sup> March 2014.**
  5. Co-ordinator- One day National Conference on “RECENT ADVANCES IN MECHANICAL ENGINEERING -2016” (RAIME’16) Organised by Department of Mechanical Engineering. National Engineering College, K.R.Nagar, Kovilpatti on **1<sup>st</sup> April, 2016**

#### **INDUSTRIAL TRAINING:**

- 1) One week industrial training in Excel Hydro-Pneumatics (India), AMRL Sez, NH No 7, Nanguneri, Tamil nadu from 5/02/18 to 10/02/18.
- 2) Industrial Know How at Diamler India Commercial Vehicles Pvt. Ltd., Oragadam, Chennai from 30/07/18 to 01/08/18 and Dynamic Plastics and Assembly, Tirumudivakkam, Chennai from 02/08.2018 to 04/08/2018.

#### **FACULTY DEVELOPMENT PROGRAMMES ATTENDED**

1. National level Seminar on “**Computer Aided Inspection and Advanced Metrology**”, sponsored by University grants commission, Feb.1-2, 1996, MIT Chennai.
2. **Industry Institute Partnership Programme** sponsored by ISTE chapter, Feb.18-20, 1999, Dr.Sivanthi Adithanar College of Engineering, Tiruchendur.
3. State level two days workshop on “**Research and Methods in Technology and Management**” Organised by the ISTE Chapter, May 21-22,1999, Mepco Schlenk Engg. College, Sivakasi.
4. National Level two days Seminar on “**Quality Oriented Technical Education**” Organized by the ISTE Chapter, July 25-26, 2003, National Engineering College, K.R. Nagar, Kovilpatti .
5. Short Term Training Programme (STTP) on “**Pumps and Cavitation**”, Organised by Department of Mechanical Engineering, IIT Madras, Chennai-36, from 19 to 23 Dec 2005.
- 6 International Conference, “**Recent Advances in material processing Technology**”, RAMPT ’05, Feb. 23-25, 2005, Organized by National Engineering College, K.R. Nagar, Kovilpatti.
7. ISTE conference on “**Industrial expectations and Institutional Preparations**”, Jointly organised by ISTE TN&P Section and AnnaUniversity Trichy, ISTE-CON 2008, Sudharsan Engineering college Sathya manglam, Pudukkottai Dt. Tamilnadu , from 13 to 14 August 2008.
- 8 ISTE 11<sup>th</sup> Annual convention and state level seminar on “**Autonomous Technical Institutions and universities in the context of higher level knowledge creation**” Jointly organised by ISTE TN&P Section and Mepco Schlenk Engineering Sivakasi. Tamil nadu , 27<sup>th</sup> September 2008.

- 9 One day work shop on **“Safety, Health and Environment”** organized by Department of Atomic Energy, Heavy Water Plant, Tuticorin on 16 February 2009.
- 10 Short Term Training Programme (STTP) on **“Introduction to Smart Materials and Structures”**, Organised by Department of Applied Mechanics IIT Madras, Chennai-36, from 4<sup>th</sup> to 8<sup>th</sup> Jan. 2011.
- 11 Two days Short term Course on **“ Corrosion Control and Surface Engineering” (CC & SE 2012)** conducted by the Centre of excellence in Corrosion and Surface Engineering (CECASE), National Institute of Technology, Thiruchirapalli on 18<sup>th</sup> and 19<sup>th</sup> Oct 2012
- 12 Short Term Training Programme (STTP) on **“Introduction to Smart Systems”**, Organised by Department of Applied Mechanics IIT Madras, Chennai-36, from 25<sup>th</sup> to 29<sup>th</sup> Jan. 2013.
- 13 National Level two days Workshop on **“Recent Advances in Welding of Dissimilar Materials”** CSIR Sponsored and Organized by Department of Mechanical Engineering, National Engineering College, K.R. Nagar, Kovilpatti on 19<sup>th</sup> and 20<sup>th</sup> April 2013.
- 14 Three days work shop on **‘Quality Initiatives in Technical & Higher Educational Institutions (In compliance with NBA & NAAC Accreditation)’** organised by Engineering Staff College of India, Autonomous Organ of Institution of Engineers,( India) , Hyderabad-32 from 11<sup>th</sup> to 13<sup>th</sup> Feb. 2014.
- 15 **‘Work shop for Training of Evaluators / Resource persons on outcome based Accreditation Phase –I and Phase-II’** organised by NBA and national Engineering college on March 5<sup>th</sup> and March 14<sup>th</sup> to 16<sup>th</sup> 2014
- 16 **‘Work shop for Training of Evaluators / Resource persons on outcome based Accreditation Phase –I and Phase-II’** organised by NBA and national Engineering college on June 7<sup>th</sup> and June 14<sup>th</sup> to 16<sup>th</sup> 2014
- 17 National Conference on **‘Sustainable Institute Industry Partnership SIIP-2014’** organised by society for Educational and entrepreneurship Development, Chennai 25<sup>th</sup> and 26<sup>th</sup> August 2014 in IIT Madras, Chennai.
- 18 State level two days workshop on **“Research methodology with RStudio”** organised by Madurai School of Management, Vadipatti, Madurai, 12 – 13 March 2016.
- 19 All India Seminar on **“Boiler tube failures-Causes, Effects and remedial measures” on 27 and 28 May 2016**,organized by ‘The Institution of Engineers (India)’, Tiruchirapalli local centre, at hotel Femina, Tiruchirapalli.
- 20 Short term course titled on: **Active flow control : Concepts and Applications” under Global Initiative Academic Networks (GIAN) on March 12 – 17, 2018** organized by Motilal Nehru National Institute of Technology, Allahabad and Sponsored by Ministry of HRD, Government of India.
- 21 AICTE approved FDP (FDP101x) on **Foundation Program in ICT for Education [Part I] and [Part II]** on two week FDP is split into two components as follows: -(i) Online activities on 8 March 2018 to 12 April 2018 and (ii) Face to Face interaction at Remote Centers: 11, 17 March 2018 conducted by Indian Institute of Technology, Bombay.

- 22 Two-Week AICTE approved FDP on 'Pedagogy for **Online and Blended Teaching-Learning Process (FDP201x)**', scheduled from 3 May to 30 May 2018 conducted by Indian Institute of Technology, Bombay.

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

1. Life member in ISTE (LM 21041)
2. Life member in National Safety council (LM-TN-105)
3. Life member of the Indian society of criminology (K074-LM 1146)
4. Life member in The Institution of Engineers (India)(M-135990-2)
5. Nodal Officer for Engineering Council, New Delhi
6. Member in The Indian Ecological Society (IES)

### **CONSULTANCY:**

- 1) Submitted the consultancy report on “Design and characterization of valves” to Excel Hydro-Pneumatics (India), , AMRL Sez, NH No 7, Nanguneri, Cost of the project Rs. 2.1 Lakhs.
- 2) Consultancy work under progress on ‘Woven Sack Hot Air Sealing of polypropylene bags for M/S. Venbro Ploymers, Erode, Tamilnadu. Cost of the project Rs. 25,000/-.
- 3) Conducted energy audit in Kavitha Match Industry, Kovilpatti, associated with TRY CAE Industrial Engineering Pvt. Ltd.

### **FUNDED PROJECT:**

Rs. 6.25 Lakh Fund Sanctioned from MSME New Delhi for “**Eco Friendly Activated Carbon and Charcoal Production Unit**”. Concept, Prototype model and Process verified

### **ACADEMIC ACTIVITIES**

- Executive member in Parent Teachers Association for five years from 2010-11 to 2014-15
- Member in board of studies in mechanical engineering Department from 2011-2012 onwards.
- Served as a chief Superintendent in Anna university examinations for six Semesters from 2010 -11 to 2012-13

- Served as a External chief Superintendent in Anna university of technology examinations in Infant Jesus College of engineering and technology during 2001– Dec.
- Member in Department Discipline committee.
- Conducted Value Added courses to students: Unigraphics, NDT, Solid work software workshops and Industrial drawing readings.
- Introduced Industry Related Elective course in curriculum.
- Started New Product development Cell in Department.
- Class coordinator for third year students during 2011-2012 academic year.
- Served as tutor for 20 students in department.
- Class in-charge for the 2001-2005 batch of students. Maintained the test marks and attendance and sending the same to their parents were effectively carried out
- Class Co-ordinator for the 2006-2010 Mechanical Engineering Students. The general discipline and academic activities are continuously monitored.
- The preparation of the Department Time table for the staff members and coordinated with the staff, as time table in-charge for the two academic years 1998-2000..
- Actively involved in the development and of maintenance of various laboratories like Heat and mass transfer, steam and IC Engines and Fuels laboratories from June 1999 to June 2004 as an in-charge. During the above period, some of the equipments were added to these laboratories. In particular, Computerized I.C. Engine had been added up in IC Lab. Replaced the analog instruments into digital instruments in IC Engine Lab. Prepared the laboratory Manuals for all four labs.
- While the department has been assigned the task of framing syllabus for B.E. (Mechanical Engineering) by M.S. University, Tirunelveli, I myself contributed by framing syllabus for the subjects like Theory of Machines-I & II and other related subjects and few of the laboratory works-Year 1995 -2000.
- The various association activities were planned and conducted effectively for the benefit of students of Department of Mechanical Engineering for the academic year 1998-1999 as an Association in-charge.
- Metallurgy, Metrology, Instrumentation and dynamics laboratories were under my control during the period of June 1995 to June 1999. During this period, Mechanical Engg. Department went for an accreditation by NBA and came out successfully. Many advanced equipments like digital gauges, Pressure test rig, different types of comparators and floating carriage micrometers had been added. Prepared the laboratory Manuals for all four labs
- LPG Refrigeration test rig was successfully fabricated and installed in the I.C. Engines Laboratory as it is one of the equipment required to be installed as per Anna University curriculum during the year 2003-2004.
- A student project has been successfully carried out with hydrogen as fuel for Two wheeler four stroke Engine during the year 2005-2006.

## **ADMINISTRATIVE ACTIVITIES:**

- Member in college Student's Grievance cell. From 2016-17 to 30.4.2019.
- Co-ordinator- Job Mela on 17.12.2016 in National engineering college organized by Thoothukudi District Collectorate, Thoothukudi-12000 people participated -105 company participated. 1750 people got job immediately.
- Served as a associate warden in college boys hostel for five years from 2010-11 to 2014-15. Mechanized cooking systems in hostel Kitchen.
- Mechanical department alumni coordinator- inviting alumni to college, arrange alumni get together in college and alumni interaction with students.
- In charge of Department Placement – arranging the industrial training, provide the core industry placement, conducting mock interview, mock test and mock group discussion.
- Industry institute interaction cell coordinator in department level from last five years.
- Assisting to HOD in all Administrative work departments.
- Served as a secretary in ISTE staff Chapter -2011-2012- conducted three programs.
- Served as NBA coordinator for ECE branch Accreditation. And also the in charge of NBA coordinator in department from 2011-12 to 2012-13 for preparing the SAR
- Served as an Assistant Transport Officer for the institution for more than 5 academic years and actively involved myself in maintaining and running the Institution transportation vehicles. Gained hands on experience in managing the non teaching staff involved in the transportation department for smooth operation.
- Served as Resident tutor in Boys hostel from June 1990 -1992.
- Actively involved myself as a committee convener in the organization of International conferences RAMPT'05 and also assigned the position of Public relation committee convener.
- Actively involved myself as a committee convener in the organization of International conferences IRIS'06 and also assigned the position of Public relation committee convener
- Actively involved myself as a committee convener in the organization of International conferences Icon ADELCO'07 and also assigned the position of Public relation committee convener for the forthcoming conference
- Actively involved myself as a committee convener in the organization of International conferences RAMPT'09 and also assigned the position of Accommodation committee convener
- Contributed significantly for National conferences NACOOE'03, RAIME'04, NACOOE'04, RAIME'06, RAIME'07, and RAIME'08, organized by the Department of Mechanical Engineering as a committee convener.
- Contributed significantly for National conferences RAIME'08, organized by the Department of Mechanical Engineering as a Editor of the Conference proceedings

- Purchase and regular maintenance of Water coolers, Aqua-guard units and window air conditioners were executed by me during the year 1999-2004. First year computer and English laboratories were air-conditioned during the above tenure of in-charge.
- Setting the entire laboratory setup for Plumbing exercise for the first year students.
- Effectively managed the sanitary workers in Housekeeping work and maintenance of college overhead tanks during the year 1996-1999.

A handwritten signature in blue ink, consisting of stylized initials and a long horizontal line extending to the right.

Dr. H.KANAGASABAPATHY,