



## Dr. K. BALASUBRAMANIAN

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### Professional Summary

**Experience:** Twenty Four years (Teaching)

**Publications:** International Journal: 35 (published); 3 (submitted)

**Conferences:** 45

#### Academic Qualifications:

Degree	Branch	Institution/ University	Year of Passing	Class
Ph.D.	Mechanical Engineering	NIT, Trichy / Anna University, Chennai	April 2008	I
M.E.	Production Engineering	Thiagarajar College of Engg., Madurai / Madurai Kamaraj University	December 1998	I
B.E.	Mechanical Engineering	Arulmigu Kalasalingam College of Engg., Krishnankoil / Madurai Kamaraj University	April 1996	I
M.B.A.	( Part Time)	Manonmaniam Sundaranar University	December 2010	I
PGDAL &LL	(Part Time)	Madurai Kamaraj University	December 2010	i

#### Teaching Experience:

Institution	Post held	Period of Service		Duration	
		From	To	Year	Month
Bharath Institute of Higher Education and Research, Chennai	Professor & Head	August 2017	Till now	3	0
Kalasalingam Academy of Research and Education, K.Koil	Professor cum Dean	September 2015	June 2017	1	9

Veltech Engineering College, Avadi, Chennai.	Principal	July 2014	June 2015	1	-
Dr.MGR Educational and Research Inst. Univ., Chennai	Professor cum Dean	May 2010	June 2014	4	2
Raja Rajeswari Engg. College, Adayalampattu, Chennai	Professor cum Vice Principal	Oct. 2005	April 2009	4	7
	Principal	May 2009	April 2010		
Sethu Inst. of Tech., Kariapatti.	Asst.Professor	Sep. 1999	Sep. 2005	6	1
Arulmigu Kalasalingam College of Engg., K. koil	Lecturer	Sep. 1998	June 1999	-	10
J.J.College of Engg. & Tech., Trichy	Lecturer	Sep. 1996	July 1997	-	11
<b>Total</b>				<b>24</b>	<b>04</b>

#### **International Collaboration:**

1. **MoU's signed** (through my initiation) between
  - Kalasalingam Academy of Research and Education, Krishnan koil with Universiti Putra Malaysia, Malaysia in 2017.
  - Bharath Institute of Higher Education and Research, Chennai with Universiti Putra Malaysia, Malaysia in 2019.
2. **International Workshop organized** in 2017 at UPM, Malaysia and 2018 at Bharath Institute of Higher Education and Research, Chennai.
3. **Invited Talk delivery** at Universiti Putra Malaysia, Malaysia in 2018
4. **Invited Talk Delivery** at Universiti Tun Hussein Onn Malaysia in 2020.
5. **Coordinator for Malaysia- India Student Inbound Mobility Program** three times arranged at Universiti Putra Malaysia, Malaysia during 2018 and 2019.
6. Served as **Judge** in **1<sup>st</sup> International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)** held at Universiti Putra Malaysia, Malaysia.
7. Served as **Session Chair** at the **international conference on Structural Engineering and Construction Management** during December 2017 held at Srilanka.

8. Contributed as **Panel Judge for the Best Paper Award in AEROTECH –VI Conference at Malaysia** during 2016.

### **Research Articles Publication:**

#### **International Journals**

1. Analysis of Mechanical Properties of Natural Composites by Experimental with FEA – Materials Today: Proceedings 2020.
2. Influence of Sequential Positioning of Fibre Mats in Enhancing the Properties of Natural Fibre Mat Hybrid Composite - Materials Today: Proceedings 2020.
3. Sleeve synchronizer induction hardening process parameter optimization For better hardness and case depth using Taguchi, Grey Relational Analysis and RABAL Algorithm – International Journal of Recent Technology and Engineering, Volume-7 Issue-6S2, 2019, pp. 601-607.
4. Hybrid Fibre composites: An Overview, International Journal of Recent Technology and Engineering, Volume-7 Issue-6S2, 2019, pp. 559-600.
5. Optimal Sequence Identification in Parallel Flow Line Environment Using Heuristics, Lecture Notes in Mechanical Engineering, Springer, 2018, pp.209-217.
6. Stress Analysis of SIC Reinforced Polyester Nano Composite Spur Gear, International Journal of Engineering & Technology, Vol.7 (4.19) (2018) pp.305-308
7. Investigations of the mechanical properties of bi-layer and tri layer fiber reinforced composites, IOP Conf. Series: Materials Science and Engineering 152 (2016) 012050.
8. Application of heuristics for parallel flow line scheduling problem, Indian Journal of Science and Technology, 2016, Vol. 9, issue 4.
9. Machining analysis of natural fibre reinforced composites using fuzzy logic, IOP Conf. Series: Materials Science and Engineering 152 (2016) 012051.
10. New Algorithm (RABAL) to address confounding problems in Taguchi parameter Design – A Practical Study, International Journal of Applied Engineering Research, Vol.11, No.1 (2016), pp. 239-243.
11. Analysis of Bending Behavior of Laminated Composite Beam, 2015, Journal of Material Science and Engineering, vol. 786, pp. 421-42.
12. Fuzzy based optimization of thrust force and torque during drilling of natural hybrid composite, Applied Mechanics and materials, 2015, pp. 265-269.
13. Design and Analysis of external expansion collet with hydraulic movement, International journal of applied engineering research, 2015, vol.10, pp. 138-141.
14. Investigation on carbon nanotubes over review on other heat transfer nano fluids, International journal of Applied Engineering Research, 2015, vol.10, pp. 112-116.
15. New Algorithm to Address Confounding Problems in Taguchi Parameter Design – A Practical Study, Indian Journal of Science and Technology, Vol. 8(35), 2015.
16. Defect reduction in Ring Blank Casting through Design of Experiments, International Review of Mechanical Engineering, Vol. 9 no.6, 2015.
17. Analysis of Crown Shrinkage in Gravity Die Cast Aluminium Alloy LM 13 Piston, Indian Journal of Science and Technology, Vol. 8 (35), 2015.
18. Process optimization for pore defect in casting – A review, Journal of Applied Mechanics and Materials, 2015, pp.581-585.

19. A Review on Valuable Trends of Product Data Management (PDM) Occupied in New Product Development (NPD), *Applied Mechanics and Materials*, 2015, Vol. 786, pp. 262-268.
20. Optimization of Pore Defects in Casting Process - A Study, *International Journal of Applied Engineering Research*, Vol. 10, No.62 (2015), pp.104-108.
21. Parameter Optimization for Insert blowhole defect in Piston Die casting through DOE, *International Journal of Applied Engineering Research*, 2015, vol.10, pp. 23513-23522.
22. Application of Metaheuristic Approach in Parallel Flow Line Scheduling, *International Journal of Applied Engineering Research*, Vol. 10 No.09 (2015), pp.22843 – 22851.
23. Application of parallel flow line scheduling using GA, *Applied Mechanics and Materials*, 2015, pp. 349-353.
24. Reverse Engineering and Structural analysis of radiator Fan Blades, *Journal of Applied Mechanics and Materials*, Vol.786, (2015), pp.404 - 408.
25. Minimization of Tardiness and Earliness of Jobs in Parallel Flow Line Environment, *International Journal of Applied Engg. Research*, Vol.10 No.62 (2015) pp.53 – 56.
26. Drilling performance investigations on hybrid composites by using D-optimal design, *International Review of Mechanical Engineering*, 8(5), 2014: 952-961.
27. Optimization Studies on Thrust Force and Torque during Drilling of Natural Fiber Reinforced Sandwich Composites, *Jordan Journal of Mechanical and Industrial Engineering*, 8(6), 2014: 297-304.
28. Static Analysis of Fan Blade Using Reverse Engineering and Ansys, *International Journal of Applied Engineering Research*, Volume 9, Number 24 (2014) pp. 30651-30660.
29. Multi –Objective optimization problems in Taguchi parameter design – A Literature review, *Journal of Applied Mechanics and Materials*, vol. 813-814, pp.1188-1192.
30. Optimization of Process parameters in Sleeve Synchronizer Groove turning (Hard turning) for better surface finish and Productivity using TGRA – A Practical Investigation, *International Journal of Applied Engineering Research*, Volume 9, Number 24 (2014) pp. 27243-27254.
31. Parallel Flow Line Machine Scheduling With Setup Times Using Local Search Heuristics, *International Journal of on Mechanical & Automobile Engineering*, (2009) Vol. 1, No.1, pp.37-48.
32. Performance comparison of New heuristic with Genetic algorithm In Parallel Flow Line Set Up, *International Journal of Applied Management and Technology*, 2008, vol.6, No.3, pp.143– 157.
33. Parallel flow scheduling to minimize maximum tardiness, *International Journal of Applied Management and Technology*, 2006, vol. 4, No.2, pp.140 – 148.
34. Search heuristics for multiple parallel flow line scheduling, *International Journal of Applied Management and Technology*, 2005, vol. 3, No.1, pp.109 – 119.
35. Parallel Job scheduling using genetic algorithm, *International Journal of Advanced Manufacturing Technology*, (2005), pp. 1047-1052.

### **National Conference**

1. “Location Selection Through AHP “ National Conference on Modeling and Analysis of Production Systems at National Institute of Technology, Tiruchirapalli on 22-23, January 2004, Page 271 – 276.

2. "Supplier Performance Measurement Using Fuzzy Logic Approach – Case Study presented at the National Conference on "Modern Trends in Management" in Gogte Institute of Technology, Belgaum on 21 – 22 May 2004.
3. "Supply chain Entity Optimization by Lotfi Approach" presented at the First National Conference on "Development and Challenges in Manufacturing Engineering – 2004"(NCDCM – 2004), in Manipal Institute of Technology, Manipal on 18 – 20 march 2004.
4. "Supplier Selection Through AHP – A Case Study" Second National Conference on Computer Integrated Design and Manufacturing at Amirta Institute of Technology, Coimbatore on 28-29, November 2003, Page 250 - 257.

### **International Conferences**

1. 'Analysis of Mechanical Properties of Natural Composites by Experimental with FEA' 2<sup>nd</sup> International conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), **BITS, Dubai Campus, UAE** on November 20-22, 2019.
2. 'Influence of Sequential Positioning of Fibre Mats in Enhancing the Properties of Natural Fibre Mat Hybrid Composite' 2<sup>nd</sup> International conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), **BITS, Dubai Campus, UAE** on November 20-22, 2019.
3. 'Analysis of Natural Fibre mat and Fibre Hybrid Composite' 2<sup>nd</sup> International conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), **BITS, Dubai Campus, UAE** on November 20-22, 2019.
4. 'Evaluation of Thermal Properties of Natural Fibre Woven Mat & Fibre Hybrid Composites' Wood and Bio Fibre International Conference 2019 (WoBIC 2020), **Universiti of Putra Malaysia, Malaysia on 5-6, December 2019.**
5. 'Evaluation of Mechanical properties of Natural Fibre Mat and Fibre (NFMF) Hybrid Composites by experimental and FEA' Wood and Bio Fibre International Conference 2019 (WoBIC 2019), **Universiti of Putra Malaysia, Malaysia on 5-6, December 2019**
6. 'Evaluation of Mechanical Properties of Natural Fiber Mat/ Fiber (NFMF) Hybrid composites' Wood and Bio Fibre International Conference 2019 (WoBIC 2019), **Universiti of Putra Malaysia, Malaysia on 5-6, December 2019.**
7. 'Opportunities of Bio derived composites for food packaging – A Review' 1<sup>st</sup> **International Conference on Safe Biodegradable Packaging Technology 2018, SafeBioPack 2018, 23- 25 July 2018, Universiti Putra Malaysia, Malaysia.**
8. 'Exploring Optimal Sequences in Parallel Flow Line Environment with the aid of computationally efficient Heuristic Algorithms' International Conference on AUTOMOTIVE SYSTEMS, AGRICULTURAL EQUIPMENTS AND MANUFACTURING-ICAAM 2017, Kalasalingam University, 24-25 March, 2017.
9. Presented in an **international conference on Structural Engineering and Construction Management** during December 2017 held at **Srilanka.**
10. New Algorithm Development for Sleeve Synchronizer Gear Hobbing Process Parameter Optimization, International Conference on "Recent Innovations in Science, Engineering, Technology and Management held at PSR Engineering College, Virudhunagar during April 2016.
11. 'Machining Analysis of Natural Fiber Reinforced Composites using Fuzzy Logic' International conference '**AEROTECH VI - Innovation in Aerospace**

**Engineering and Technology, Universiti Putra Malaysia, Kuala Lumpur, Malaysia** during 8-9, November 2016.

12. "Fuzzy based optimization of thrust force and torque during drilling of natural hybrid composites", International conference on sustainable energy resources, materials and technologies, SSN College of Engineering, 8 January 2015.
13. "Effective Trends of Product Data Management Involved in New Product Development", International Conference on Applications and Design in Mechanical Engineering (ICADME 2015), **Penang, Malaysia**.
14. "Static Analysis of Fan Blade using Reverse Engineering and ANSYS", International Conference on Applications and Design in Mechanical Engineering (ICADME 2015), **Penang, Malaysia**.
15. "Comparison of Metaheuristic Approach in Parallel Flow Line Scheduling", International Conference on Applications and Design in Mechanical Engineering (ICADME 2015), **Penang, Malaysia**.
16. "Multi –Objective optimization problems in Taguchi parameter design – A Literature review" on International Conference on Mechanical and Manufacturing Engineering (ICMME-2015) organized by Department of Mechanical Engineering, SCSVMV University on 2<sup>nd</sup> & 3<sup>rd</sup> April 2015.
17. "Process optimization for pore defect in casting – A review" on International Conference on Mechanical and Manufacturing Engineering (ICMME-2015) organized by Department of Mechanical Engineering, SCSVMV University on 2<sup>nd</sup> & 3<sup>rd</sup> April 2015.
18. 'Identification of sequences in parallel flow line set up to minimize tardiness & earliness of jobs', 2<sup>nd</sup> International Conference on Recent Trends in Engineering and Technology - ICRTET 2015, OXFORD College of Engineering, Polur, 2015.
19. 'Reverse Engineering structural analysis of steel fan blade', International Conference on Recent Trends in Engineering, Technology and Management 2014, pp. 188-192, Mount Zion College of Engineering, Kerala.
20. "Quality improvements in foundries using design of experiments" presented at the Int. Conference on Recent advances in Mechanical Engineering (INCROME 2012) at Dr.MGR University, Chennai, April 2012.
21. "New Metaheuristics approach to minimize the makespan and tardiness in parallel flow machine shop scheduling" presented at the Int. Conference on Recent advances in Mechanical Engineering (INCROME 2012) at Dr.MGR University, Chennai, April 2012.
22. "Reverse Engineering Methodology – A Review" presented at the Int. Conference on Recent advances in Mechanical Engineering (INCROME 2012) at Dr.MGR University, Chennai, April 2012.
23. ""Pareto Optimal to find sequences of jobs in parallel flow line set up with the objective of minimizing tardiness and earliness" Int. Conference on Recent advances in Mechanical Engineering (INCROME 2011) at Dr.MGR University, Chennai, April 2011.
24. "Optimization of process parameters in groove turning using Taguchi method for better surface finish and productivity – A practical investigation" Int. Conference on Recent advances in Mechanical Engineering (INCROME 2011) at Dr.MGR University, Chennai, April 2011.
25. New Heuristic Approach to Find Optimal / Near Optimal Sequences to Minimize Tardiness / Earliness of Jobs in Parallel Flow Line Set Up" International Conference on Industrial Engineering and Business Management (ICIEBM 2010) at **Yogyakarta, Indonesia** during October 12- 13, 2010.

26. "Minimization of Makespan on Parallel Flow Line Scheduling" International Conference on Advanced Manufacturing and Automation – INCAMA2009 at Arulmigu Kalasalingam College of Engineering during March 26 – 28, 2009.
27. "Parallel Flow Line Machine Scheduling to Minimize Makespan and Tardiness" Paper Accepted for presentation at the International Conference on Multidisciplinary Information Sciences and Technologies, Inscit2006, Spain.
28. "Multiple Parallel Flow Line Scheduling With Sequence Setup Time Using Metaheuristics" 37<sup>th</sup> Annual Convention on Operation Research Society of India at Indian Institute of Management, Ahmedabad during 8 – 10, January 2005.
29. "Minimization of makespan in Multiple Parallel Flow Line Scheduling" ecomNET - JSB International Conference at Jansons School of Business, Coimbatore, 20-21 May 2005.
30. "Multiple Parallel Line Machine Scheduling Using Meta Heuristics" International Conference on **Information and Communication Technology in Management – ICTM 2005 at Multimedia University, Melaka, MALAYSIA 23 – 25 May 2005.**
31. "Parallel Flow Line Scheduling With Setup Times Using Simulated Annealing" International Symposium on Intelligence based Materials and Manufacturing to be held at Birla Institute of Technology, Ranchi, during 7-9, August 2005.
32. "Local Search Heuristics for Minimizing Makespan in Parallel Flow Line Scheduling", 11th International Conference on Productivity and Quality Research, Indian Institute of Technology, Delhi, during December 2005.
33. "A Genetic Algorithm for Minimizing the Tardiness in the case of Scheduling Parallel Flow Machines" ICORAID – 2005 – ORSI, Indian Institute of Science, Bangalore during December 27- 29, 2005.
34. "Minimization of Makespan on Parallel Flow Line Scheduling" IX Annual Conference of the Society of Operations, at Management School of Management, Pondicherry University, Pondicherry, India during December 16-18, 2005.
35. "Multiple parallel flow line scheduling with sequence setup time using Meta-heuristics" presented at the 37th Annual convention ORSI, IIM,Ahmadabad during January 8<sup>th</sup> -11<sup>th</sup> 2005.
36. "Supplier Performance Measurement Using AHP" International Conference on Responsive Supply Chain Management at Coimbatore Institute of Technology, Coimbatore during 5-7 Jan 2004.
37. "Heuristics Development for Multi Parallel Line Scheduling" 9<sup>th</sup> International Symposium on Logistics and Global Outsourcing at IIM Bangalore during 11 – 14 July 2004.
38. "Heuristics Development for Hybrid Parallel Line Scheduling" The International Conference on Manufacturing and Management (GCMM – 2004) at Vellore Institute of Technology, Vellore during 8-10 December 2004.
39. "Parallel Flow Line Scheduling with setup times using simulated annealing" VIII Annual International Conference of the Society of Operation Management at National Institute of Industrial Engineering (NITIE) Mumbai during 17 – 20, December 2004.
40. "Supplier Performance Measurement Using Fuzzy Logic Approach – Case Study presented at the National Conference on Modern Trends in Management in Gogte Institute of Technology, Belgaum on 21 – 22 May 2004.

41. "Supplier Optimization Using Fuzzy Logic" presented at the Second International Conference on Logistics and Supply Chain Management in PSG College of Technology, Coimbatore during 3 – 5 August 2004.

#### **Research Project:**

1. A Proposal on "**INSTALLATION OF SOLAR ENERGY SYSTEM IN COLLEGE CAMPUS - A REPORT**" Submitted to **Department of Science & Technology, New Delhi on 15<sup>th</sup> May 2010.**
2. A Project Proposal on "**STUDY AND OPTIMIZATION OF BALLISTIC COMPOSITE ARMOUR AGAINST FRAGMENTS GENERATED FROM EXPLOSIVE REACTIVE ARMOUR (ERA) AND SMALL ARMS APPLICATIONS**" to **Defence Research Development Organization, HIGH ENERGY MATERIALS RESEARCH LABORATORY, PUNE - 411 021** on February 2013.

#### **Research Guidance:**

Completed: 5 scholars  
Pursuing : 2 Scholars.

#### **Current Research Work:**

1. Pareto optimization on parallel flow scheduling problem with multi criteria.
2. Composite Materials and Manufacturing.
3. Bio Material Hybrid Composite.
4. Machining parameter optimization using taugchi method.
5. Making simulation of parallel flow machine setup and study the characteristic.

#### **Academic Involvement:**

In the panel of reviewer for International Journal of Advanced Manufacturing Technology (**IJAMT**), Springer Verlag Publication, UK.

In the panel of reviewer for IJ of Science and Tech. Education Research (**IJSTER**).

In the panel of reviewer for Journal of Economics and International Finance (**JEIF**).

In the panel of reviewer for Journal of Mechanical Engineering Research (**JMER**).

In the panel of reviewer for Information Technology Research Journal (**ITRJ**).

In the panel of reviewer for **Construction and Building Materials (CBM)**

Editorial board member in Sethu Journal of Technology from 2000 – 2004.

Session handled a topic on "**Introduction of Meta heuristics**" in one day Seminar on Advanced Optimization Techniques organized by Department of Mechanical Engineering during April 2010 at RajaRajeswari Engineering College, Chennai.

Conference Chairman of International Conference on Optimization Applications in Engineering **ICAET 2013** at Dr.MGR Educational and Research Institute University, Chennai.

Session Chair in International Conference on Advances in Mechanical Engineering **INCROME 2011** at Dr.MGR University, Chennai.

Special Chair for a Session of International Conference on Automation, Robotics and Control Systems (**ARCS-09**) during July at Florida, USA.



Program Committee Member of The First International Workshop on Wireless & Mobile Networks (WiMo-2009) (In conjunction with UIC 2009) during July 7 -10, 2009 at Brisbane, Australia.

Program Committee Member of The First International Workshop on Ubiquitous Computing (In conjunction with NCM 2009) during August 25-27, 2009 at Seoul, Korea.

Program Committee Member of The First International workshop on Grid Computing (GridCom-2009) during May 10-13, 2009 at Rabat, Morocco.

General chair of The First International workshop on Mobile & Wireless Networks (MoWiN 2009) (MoWiN 2009), during June 25-27,2009, at Seoul, South Korea.

**Exam Cell In-charge cum Chief Superintendent since 2013 to 2015 at Dr. MGR Educational Research Institute University- Phase II Campus, Chennai.**

**Exam Cell In-charge cum Chief Superintendent since 2007 to 2012 at Rajarajeswari Engineering College, Chennai.**

Patron of the Student Technical Symposium Techno Tunder during 2006 - 2007, 2007 – 2008, 2008 - 2009 at Rajarajeswari Engineering College, Chennai.

Patron of the National Conference on Emerging Trends in Engineering and Technologies during 2007-2008, 2008-2009 at Rajarajeswari Engineering College, Chennai.

Organizing Secretary - National Conference “GTMTS 2004” during July 10<sup>th</sup>-11<sup>th</sup>, 2004 at Sethu Institute of Technology, Kariapatti, Virudhunagar Dist., Tamilnadu, India.

Organizing Coordinator – Three day Workshop on “optimization Technology on operation Management” during November – 2004 at Sethu Institute of Technology, Kariapatti, Virudhunagar Dist., Tamilnadu, India.

Course Coordinator for IDEAS Software Course, which was conducted for students at Sethu Institute of Technology, Kariapatti, Virudhunagar Dist., Tamilnadu, India.

AICTE Inspection report preparation Committee member from 2006 to 2010 at Rajarajeswari Engineering College, Chennai.

UGC/ NAAC Inspection reports preparation Committee member during 2008-2010 at Rajarajeswari Engineering College, Chennai.

Staff Selection Committee member from 2006 to 2010 at Rajarajeswari Engineering College, Chennai.

ISO Internal Auditor from 2003 to 2005 at Sethu Institute of Technology, Madurai.

Reception Committee convener from 2000 to 2005 at Sethu Institute of Technology, Madurai.

CAD/ CAM Laboratory In - Charge from 2001 to 2005 at Sethu Institute of Technology, Madurai.

Metrology Laboratory In - Charge from 1998 to 1999 at Kalasalingam College of Engineering, Krishnan Koil.

**Seminar, Workshops Organized/Attended:**

- ❖ Delivered an invited talk in an Int. Conference held at Oxford Engineering College, Polur during March 2014.

- ❖ Chaired the session and handled the mechanical stream papers in an international conference held at ARM College of Engineering and Technology, Chennai during 18<sup>th</sup>-19<sup>th</sup> April 2014.
- ❖ Delivered a talk in an Int. Conference held at ARM College of Engineering and Technology, Chennai on 19<sup>th</sup> April 2014.
- ❖ Handled a session in an international conference (ICAETm2014) held at NPR College of Engineering and Technology, Madurai on 28<sup>th</sup> March 2014.
- ❖ Handled a session in an Int. Conference held at Madurai institute of Technology during 13<sup>th</sup> April 2015.
- ❖ Handled a session in an Int. Conference held at Thamirabharani Engineering College on 2<sup>nd</sup> May 2015.
- ❖ Invited as a chief guest and delivered a speech to Christ Matriculation & Hr. Sec. School Students on 29<sup>th</sup> January 2014.
- ❖ Delivered a talk on Operations Management at Oxford College of Engineering, Polur on 16<sup>th</sup> November 2015.
- ❖ Handled a session in a National Conference held at Kalasalingam Academy of Research and Education, K.Koил on 20<sup>th</sup> January 2016.
- ❖ AICTE – ISTE Short term training programme on AUTOMOTIVE EMISSION CONTROL STRATEGIES Conducted by the Department of Mechanical Engineering, Annamalai University during 20 – 31 May 2000.
- ❖ AICTE – ISTE Summer School on RECENT DEVELOPMENTS IN MATERIAL JOINING Conducted by the Department of Production Engineering, Annamalai University during 28 May to 8 June 2001.
- ❖ Three Day Short Term Course on ELECTRICAL DISCHARGE MACHINING held at Bannari Amman Institute of Technology during 24 – 26 April 2002.
- ❖ AICTE – ISTE Short term training programme on MODELING AND ANALYSIS OF PRODUCTION SYSTEMS Conducted by the Department of Production Engineering, National Institute of Technology during 20 – 31 May 2003.
- ❖ Two Day Seminar on ADVANCES IN AUTOMOTIVE TECHNOLOGY Conducted by SAE Collegiate Branch, PSG College of Technology on 10 & 11<sup>th</sup> October 2003.
- ❖ CNC MILLING Training course using MTAB & DENFORD Equipment at the MTAB – DENFORD TECHNOLOGY CENTRE during 21 – 26 March 2005.
- ❖ Two Day Seminar on Optimization Techniques for Engineering Applications organized by RVS College of Engg., Dindigul during 10-11<sup>th</sup> March 2005.
- ❖ Two Day Programme on EDM Awareness Programme conducted by UMS-CHARMILLES EDM Centre at Coimbatore on 25<sup>th</sup> and 27<sup>th</sup> February 2005.
- ❖ Two Day workshop on 'Emerging Trends in Supply Chain Management' Sri Venkateswara College of Engineering, Sriperumbudur, 18 – 19, Sep. 2009.

**Awards:**

Received Dexterous Faculty award – more than five times.

**Membership:**

- Life member in Indian Society for Technical Education.
- Member in International Association of Engineers (IAENG).
- Senior Member in International Association of Computer Science and Information Technology (IACSIT).
- Member in IAENG Society of Industrial Engineering.
- Member in IAENG Society of Mechanical Engineering.

- Member in IAENG Society of Operations Research.
- Member in IET.

#### **Reviewer in Journals:**

- Journal of Advanced Manufacturing Technology (IJAMT) Springer
- Journal of Mechanical Engineering Research (JMER)
- Neural Computing & Applications
- International Journal of Enterprise Network Management (IJENM)
- International Journal of Science and Technology Education Research
- Journal of Economics and International Finance
- Information Technology Research Journal

#### **Books/ Chapter Publication:**

Unconventional Machining Processes, Kanthimathi Publications, Chennai.

Book Chapter: Sustainable Composites for Aerospace Applications in the Book Sustainable Composites for Aerospace Applications, Woodhead Publishing Series in Composites Science and Engineering, Elsevier. UK, pp. 55-67, 2018.

Book Chapter: Manufacturing Methods of Composite Materials in the book: Advanced Engineering Research and Applications, Research India Publications Vol. VII, pp. 241-252, 2018.

#### **Patent:**

1. Patent numbered 201641018218 dated 27-05-2016 relating to ANTI TYRE BUSTER.
2. Patent numbered 201941039892 in 2019 relating to E – TROLLEY
3. Patent numbered 201941039370 in 2019 relating to MOTORIZED SMART TURNING MECHANISM
4. Patent numbered 201941036455 in 2019 relating to VOICE BASED HOT AND COLD WATER DISPENSER SYSTEM
5. Patent numbered 201941036146 in 2019 relating to ANDROID POWER JUICE VENDING MACHINE

#### **Subjects Taught:**

##### **Under Graduate Courses**

- Process Planning & Cost Estimation
- Modern Manufacturing Systems
- Design of Machine Elements
- Foundry Technology
- Industrial Engineering and Management
- Robotics
- Process Planning Control
- Engineering Graphics
- Production Technology.

##### **Post Graduate Courses**

- Computer Aided Process Planning
- Management Systems
- Robotics

- Computer Integrated Manufacturing
- CAD/ CAM

**Areas of Interest**

- Composite Materials
- Operation Management
- Supply Chain Management
- Optimization Techniques

**Personal Details:**

Date of birth	: 19.02.1974
Marital Status	: Married
Nationality	: Indian
Community	: B.C.
Address for Correspondence	: Dr. K.BALASUBRAMANIAN C9, Gokulam Phase III Mogappair West, Nolambur, Chennai -95.
E –Mail	: <a href="mailto:balaraji1974@gmail.com">balaraji1974@gmail.com</a>

**Declaration**

I hereby place a declaration that the above-mentioned details are true and correct to the best of my knowledge and belief.

Place: Chennai

Signature