

# CURRICULUM VITAE

## Dr. A. Kumaravel,

Professor and Dean, School of  
Building and Mechanical Sciences,  
K.S.Rangasamy College of Technology,  
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### Academic Qualifications:

Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D. (Machine Design)	Indian Institute of Technology Madras, Chennai, India	April 2008	-	-
M.Tech (Industrial Tribology)	Indian Institute of Technology Madras, Chennai, India	May 2004	8.97/10 (CGPA)	First with Distinction
B.E. (Mechanical Engineering)	Government College of Engineering, Salem / University of Madras, India	April 1990	62.15	First
H.S.C.	Govt. Hr. Sec. School, Mallasamudram, Namakkal, India	April 1986	76.67	First
S.S.L.C.	Govt. Hr. Sec. School, Mallasamudram, Namakkal, India	March 1984	73.0	First

### Teaching Experience

- **Dean, School of Building and Mechanical Sciences,** K.S.Rangasamy College of Technology, Tiruchengode, from February 2021 to till-date.
- **Professor and Principal,** K.S.Rangasamy College of Technology, Tiruchengode, from February 2018 to October 2019.
- **Professor and Head,** K.S.Rangasamy College of Technology, Tiruchengode, from June 2008 to January 2021.
- **Professor,** K.S.R. College of Engineering, Tiruchengode, from January 2008 to May 2008.
- **Assistant Professor,** K.S.R. College of Engineering, Tiruchengode, from July 2001 to December 2004.
- **Head of the Department, Aarthi Polytechnic College,** Tiruchengode, from July to June 2001.

- **Lecturer**, K.S. Rangasamy Institute of Technology, Tiruchengode, from July 1990 to June 1998.
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## RESRACH ACTIVITIES

- Guiding **06 Ph.D. Scholars** at present
  - Recognized supervisor by Anna University, Chennai, **Ph.D. Guided: 10**
  - Total **Citations: 1896, h – Index: 22, i10 Index: 31**
  - **Area of Expertise/Research Interests**
    - Buckling and Vibration of Smart Materials
    - Thermal Stress Analysis on Smart Materials, Functionally Graded Materials
    - Evaluation of Mechanical Properties of Natural Fiber Composites and Metal Matrix Composite Materials
    - Tribological Behavior of Composite Materials
    - Characterization of Natural Fibers
  - **Reviewer** for
    - Carbohydrate Polymers – International Journal – Elsevier
    - Journal of Fibers and Polymers
    - Journal of Natural Fibers
    - International Journal of Renewable and Sustainable Energy Reviews – Elsevier
    - Journal of Materials Research
    - Journal of Industrial Textiles
    - Fuel - International Journal – Elsevier
    - Journal of Control and Systems Engineering
  - **Convener**, Science and Engineering Research Board (SERB) – DST and Department of BioTechnology (DBT), New Delhi sponsored National Conference on Computational Fluid Dynamics Applications in Biotechnology Processes organized by K. S. Rangasamy College of Technology, Tiruchengode on 18<sup>th</sup> & 19<sup>th</sup> August 2015.
  - **Member of International Technical Committee**, International Conference on Nano Materials and Nano Technology (NANO – 2015) organized by K. S. Rangasamy College of Technology, Tiruchengode on 7-10<sup>th</sup> December 2015.
  - **Reviewer** for International Conference on Mathematics and its Applications (ICMAA2014) organized by University College of Engineering, Viluppuram.
  - **Chair Person** for Paper Presentation in the International Conference on Mathematics and its Applications (ICMAA2014) held at University College of Engineering, Viluppuram on 15<sup>th</sup> – 17<sup>th</sup> December 2014
  - **Chair Person** for Paper Presentation in the International Conference on Advances in Mechanical Engineering (ICAME - 2015) held at University College of Engineering, Villupuram on 15<sup>th</sup> & 16<sup>th</sup> October 2015
  - **Editorial Board Member** of Mathematical Problems in Engineering.
  - Listed in the “**Marquis Who is Who**” in the world for the year 2015 (32<sup>nd</sup> Edition)
  - **Coordinator**, IDEA Lab sponsored by All India Council for Technical Education (AICTE) in July 2021.
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## FUNDS RECEIVED

- Received Grant-in-aid Rs. 60,000/- by All India Council for Technical Education (AICTE) to conduct the two days seminar on “Composite Materials Design Challenges and Opportunities” on 25-26 June, 2009 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Letter sanctioning grant-in-aid No. 1-4/FD/SEM/366/8/9 Dated. 16.03.2009.**
- Received Grant-in-aid Rs. 20,000/- by Council of Scientific & Industrial Research (CSIR) to conduct the two days seminar on “Recent Advancent in Industrial Automation” on 25-26 November, 2009 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Letter sanctioning grant-in-aid No. SYM/4741/09-HRD Dated. 01.10.2009.**
- Received Grant-in-aid Rs. 25,000/- by Council of Scientific & Industrial Research (CSIR) to conduct the two days seminar on “Modern Manufacturing Processes” on 25-26 November, 2010 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215.
- Received Grant-in-aid Rs. 30,000/- by Council of Scientific & Industrial Research (CSIR) to conduct the two days seminar on “Integration of Advanced Manufacturing Systems Sociotechnical Design Paradigm & Research Techniques” on 02-03 November, 2012 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Letter sanctioning grant-in-aid No. SYM/7330/12-HRD Dated. 21.08.2012.**
- Received Grant-in-aid Rs. 10,00,000/- by All India Council for Technical Education (AICTE) under Modernization and Removal of Obsolescence Scheme (MODROBS) on “Modernization of Thermal Engineering Laboratory” during the academic year 2012-2013. **Letter sanctioning grant-in-aid No. 8024/RIFD/MOD-128(Pvt.)/Policy-III/2011-12 Dated. 13.08.2012**
- Received Grant-in-aid Rs. 50,000/- by Science and Engineering Research Board (SERB), DST to conduct the two days national seminar on “Small Gas Turbine Engines” on 28-29<sup>th</sup> January 2016 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: SB/SS/1116/15-16 dated. 08.12.2015**
- Received Grant-in-aid Rs. 40,000/- from Indian Council of Medical Reserach (ICMR), New Delhi to conduct the two days national seminar on “Current Trends in Biomaterials and Application of FEM in Dentistry” on 09-10<sup>th</sup> September 2016 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: 07/248/16 – Seminars (HRD) dated. 08.07.2016**
- Received Grant-in-aid Rs. 5,89,000/- from All India Council for Technical Education (AICTE), New Delhi to conduct two week Faculty Development Programme (FDP) on “Digital Manufacturing: Integrated Technology from Design to Manufacturing” on 11-25<sup>th</sup> September 2019 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: 34 – 55/90/RIFD/FDP/Policy – 1/ 2017 – 2018 dated. 09.03.2019**

- Received Grant-in-aid Rs. 2,79,900/- from All India Council for Technical Education (AICTE), New Delhi to conduct the one week Short Term Training Program (STTP) on “Smart Materials for Intelligent future: Industrial and Defense Perspective” on 4-9th May 2020 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **File No.: 34-65/316/RIFD/STTP/Policy-1/2018-19 dated. 12.12.2019**
- Received Grant-in-aid Rs. 16,23,922/- from All India Council for Technical Education (AICTE) under Modernization and Removal of Obsolescence Scheme (MODROBS) on “Modernization and up gradation of Manufacturing and Material Processing Technology Laboratory” during the academic year 2019-2020. **F. No.: 9-240/IDC/MODROB/Policy-I/2019-2020 Dated. 20.07.2020**
- Received Grant-in-aid Rs. 30,000/- from Centre for Faculty Development, Anna University, Chennai to conduct one week Faculty Development Training Programme (FDTP) on “ME 8594 – Dynamics of Machines” on 10 - 15<sup>th</sup> May 2021 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215. **Lr.No.30/CFD/MoM-PSCM/Summer/Online FDTP/UD, Constituent, RO & SF/2021-34 dated. 24.04.2021**
- Received Grant – in – Aid Rs. 113.62 lakhs from All India Council for Technical Education (AICTE) to establish an AICTE – IDEA lab during the academic year 2020 - 2021. **F. No. AICTE/IDC/IDEA202000075/2021 dated 17.06.2021**

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## INVITED LECTURE DELIVERED

- Delivered an invited lecture on ‘**Smart materials concepts and composites**’ in DST sponsored seminar on “Smart materials in Industrial Automation” organised by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637 215 during March 24-25, 2009.
- Delivered an invited lecture on ‘**Software’s used for composites materials analysis**’ in AICTE Sponsored Two Days National Seminar on “Composite Materials Design Challenges and Opportunities” organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637 215 during June 25-26, 2009.
- Delivered an invited lecture on ‘**Modeling of Smart Materials**’ in Two days national seminar on “Smart Materials and Applications” organized by Department of Automobile Engineering, K.S.R. College of Engineering, Tiruchengode – 637 215.
- Delivered an invited lecture on ‘**Piezoelectric Materials and its Applications**’ in AICTE Sponsored Two Days National Seminar on “Smart Materials for Engineering Design” organized by Department of Mechanical Engineering, Thiagarajar Polytechnic College, Salem during January 28-29, 2011.
- Delivered an invited lecture on ‘**Applications of Smart Materials**’ in The Institution of Engineers (India), Salem local centre on 23.04.2011.

- Delivered an invited lecture on '**Introduction to Finite Element Analysis and Weighted Residual Methods**' in One Week Faculty Development Programme on "Finite Element Analysis" sponsored by Center for Faculty Development, Anna University, Chennai – 25 organized by Department of Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar, during December 3-9, 2012.
- Delivered an invited lecture on '**Free Vibration Analysis**' in One Week Faculty Development Programme on "Dynamics of Machinery" sponsored by Center for Faculty Development, Anna University, Chennai – 25 organized by Department of Mechanical Engineering, P.S.N.A. College of Engineering and Technology, Dindigul, during June 24-30, 2013.
- Delivered an invited lecture on "**Finite element modeling of Natural fiber composites**" in Two day Workshop on "Recent trends in natural composites and its hybrids for structural applications" sponsored by DRDO & CSIR organized by Sri Venkateswara College of Engineering, Sriperumbudur - 602 105 during September 25-26, 2013.
- Delivered a special lecture on '**Gas Power Cycles**' in One Week Faculty Development Programme on "ME6404 – Thermal Engineering" sponsored by Center for Faculty Development, Anna University, Chennai – 25 organized by Department of Mechanical Engineering, University College of Engineering, Villupuram - 605103 during December 14-20, 2015.
- Delivered a special lecture on '**Structural Analysis in FEA**' in One Week Faculty Development Programme on "Finite Element Analysis" sponsored by Center for Faculty Development, Anna University, Chennai – 25 organized by Department of Mechanical Engineering, Dhirajlal Gandhi College of Technology, Salem – 636 309
- Delivered a lecture on the topic "**Finite Element Modeling of Smart Materials**" on 04.08.2020 in the AICTE Sponsored Six Days Virtual Short Term Training Programme (STTP) on Finite Element Method for Engineering Applications from 03.08.2020 to 08.08.2020 (Phase 1) organized by Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai – 44.
- Delivered a lecture on "**Finite Element Modeling of Smart Materials under Thermal Environment**" on 14.09.2020 in the AICTE Sponsored Six Days Virtual Short Term Training Programme (STTP) on Smart Materials for Intelligent Future: Industrial and Defence Perspective" organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 14.09.2020 to 19.09.2020 (Slot-2).
- Delivered a lecture on the topic "**Modeling and Analysis of Smart Materials**" on 25.09.2020 in the AICTE Sponsored Six Days Virtual Short Term Training Programme (STTP) on Finite Element Method for Engineering Applications from 21.09.2020 to 25.09.2020 organized by Department of Mechanical Engineering, Muthayammal Engineering College, Rasipuram – 637 408.
- Delivered a lecture on "**Finite Element Modeling of Smart Materials under Thermal Environment**" on 17.10.2020 in the AICTE Sponsored Six Days Virtual Short Term Training Programme (STTP) on Smart Materials for Intelligent Future: Industrial and Defence Perspective" organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 12.10.2020 to 17.10.2020 (Slot-3).

- Delivered a lecture on “**Finite Element Modeling of Piezoelectric Materials**” on 21.10.2020 in the AICTE Sponsored One Week Virtual Short Term Training Programme (STTP) on Finite Element Analysis using ANSYS organized by Department of Mechanical Engineering, ABES Engineering College, Ghaziabad - 201 009 from 19.10.2020 to 24.10.2020 (Phase II).
- Delivered a lecture on “**Analysis of Piezoelectric Materials using ANSYS**” on 22.10.2020 in the AICTE Sponsored One Week Virtual Short Term Training Programme (STTP) on Finite Element Analysis using ANSYS organized by Department of Mechanical Engineering, ABES Engineering College, Ghaziabad - 201 009 from 19.10.2020 to 24.10.2020 (Phase II).
- Delivered a lecture on “**Finite Element Modeling of Piezoelectric Materials**” on 11.11.2020 in the AICTE Sponsored One Week Virtual Short Term Training Programme (STTP) on Finite Element Analysis with ANSYS Workbench organized by Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh – 515 701 from 09.11.2020 to 16.11.2020.
- Delivered a lecture on “**Analysis of Piezoelectric Materials using ANSYS**” on 12.11.2020 in the AICTE Sponsored One Week Virtual Short Term Training Programme (STTP) on Finite Element Analysis with ANSYS Workbench organized by Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh – 515 701 from 09.11.2020 to 16.11.2020
- Delivered a lecture on “**Finite Element Modeling of Piezoelectric Materials**” on 27.11.2020 in the AICTE Sponsored One Week Virtual Short Term Training Programme (STTP) on Finite Element Analysis using ANSYS organized by Department of Mechanical Engineering, ABES Engineering College, Ghaziabad - 201 009 from 23.11.2020 to 28.11.2020 (Phase III)
- Delivered a lecture on “**Finite Element Analysis - Two Dimensional Problems**” on 23.06.2021 in the Anna University Sponsored One Week Virtual Faculty Development Training Programme (FDTP) on ME8692-Finite Element Analysis organized by Department of Automobile Engineering, University College of Engineering – Anna University BIT Campus, Tiruchirappalli – 620 024 from 21.06.2021 to 26.06.2021.
- Delivered a lecture on “**Science and Spirituality**” on 15.07.2021 in the AICTE Training and Learning Academy (ATAL) Sponsored Five Day Faculty Development Programme (FDP) on Secrets of Human Bio-Energy Fields and Subconscious Mind organized by Department of Mechanical Engineering, Sona College of Technology, Salem, Tamil Nadu from 12.07.2021 to 16.07.2021.

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## MEMBERSHIP IN PROFESSIONAL BODIES

- **Fellow Member** (Life Member) in THE INSTITUTION OF ENGINEERS (INDIA) – F – 116212-4.
- **Chartered Engineer** [India] by Virtue of Professional Training experience and corporate Membership of THE INSTITUTION OF ENGINEERS (INDIA).
- **Life Member**, Indian Society of Technical Education (ISTE) – LM 42118.

- **Member (Life Member)** in American Society of Mechanical Engineers – 100067337.
  - **Member (Life Member)** in The Indian Science Congress Association – LM 65.
  - **Member (Life Member)** in Tribology Society of India – LM 5126.
  - **Founder - Life Member**, Society for failure Analysis (SFA) – FLM – SFA – 0241.
  - **Fellow Member (Life Member)**, International Society for Research and Development (ISRD) - F3140900191
  - **Fellow Member (Life Member)**, Indian Society of Mechanical Engineers (ISME).
  - **Fellow Member (Life Member)**, Indian Academic Researchers Association (IARA) – 13/2016.
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## **AWARDS AND RECOGNIZIONS**

- Received Best Engineer Award 2016 from The Institution of Engineers (India) – Salem Local Centre on the occasion of 49<sup>th</sup> Engineers Day Celebrations 2016 on 16.09.2016
  - Recognized as an Outstanding Reviewer in June 2016 for Renewable and Sustainable Energy Reviews – Elsevier Journal
  - Recognized as a Best Reviewer in January 2016 for Renewable and Sustainable Energy Reviews – Elsevier Journal
  - Received Best Academic Administrator Award from TOP ENGINEERS on 01.10.2016
  - Received Dr. A. P. J. Abdul Kalam Award for Scientific Excellence 2016 from MARINA Labs Research and Development, Chennai on 22.10.2016
  - Recognized as a Faculty Mentor by All India Council for Technical Education (AICTE) under National Initiative for Technical Teachers Training on July 2021
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## **ABROAD VISIT**

- Visited to present a Research paper at 14<sup>th</sup> International Conference on Sound and Vibration (ICSV14), 9-12 July 2007, at Cairns Convention Center, Cairns, Australia.
  - Visited to Department of Mechanical Engineering, The University of New South Wales, Australia.
  - Visited to Department of Mechanical Engineering, National University of Singapore, Singapore between 14.07.2007 to 16.07.2007.
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## **FELLOWSHIPS**

- Awarded the Ministry of Human Resource Development (HRD) Govt. of India fellowship during doctoral course.
- Financial assistance Rs 50,000/- + Registration fee US\$500 received from Indian Institute of Technology Madras, Chennai - 36 to participate and present

- a research paper in International Congress on Sound and Vibration (ICSV14) during July 9-12, 2007 at Cairns Convention Centre, Cairns, Australia.
- Financial Assistance Rs. 30,000/- received from Department of Science and Technology, Ministry of Science and Technology, Govt. of India to participate and present a research paper in International Congress on Sound and Vibration (ICSV14) during July 9-12, 2007 at Cairns Convention Centre, Cairns, Australia. **Grant No: SR/PF/506-D/2007-2008 Dated. 08.06.2007.**
  - Travel Grant Sanctioned by INSA, New Delhi, to attend the International Conference.
  - Middle and high school scholarship by Government of TamilNadu.
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## SUMMER TRAINING PROGRAMMES

- Underwent short term inplant training from 24.05.1989 to 20.06.1989 at Anna Transport Corporation, Salem, Tamilnadu.
- Underwent Two weeks software training programme on “CAE in Mechanical Design” at CAE lab, Indian Institute of Technology Madras.
- Attended two day Workshop on “CAD/CAM/CAE” from 19.02.1999 to 20.02.1999 at Kongu Engineering College, Perundurai, Erode.
- Participated Faculty development programme on “Principles of Environmental Science and Engineering”, from 18.05.2004 to 23.05.2004 at College of Engineering, Guindy, Chennai, Tamilnadu.
- Inplant training from 21.04.2003 to 31.05.2004 at Seshasayee Paper and Boards Ltd., Pallipalayam, Erode, Tamilnadu.
- QIP short term training programme on “Advances in Manufacturing from 01.12.2003 to 12.12.2003 at IIT Madras, Chennai, Tamilnadu.
- Attended one day workshop on “Promotion on Research and Faculty Development in Technical Institutions (Sponsored by Anna University Tiruchrappalli and Tamil Nadu State Council for Science and Technology, Chennai)” on 07.02.2008 at J.J.College of Engineering and Technology, Tiruchirappalli.
- Participated “FEA Training Event 2008 – Discover finite element analysis like never before” from 21.08.2008 to 22.08.2008 at Finite to Infinite, Pune.
- Attended two day National Level Workshop on “Impact of Nanotechnology in Materials on Aviation” (sponsored by CSIR New Delhi), from 09.10.2009 to 10.10.2009 at Excel Engineering College, Komarapalayam, Namakkal.
- Attended special lecture on “Industrial Wear Control” on 22.01.2009 at Indian Institute of Technology Madras, Chennai – 36.
- Attended two day workshop on “Recent Advancements and challenges in Design Engineering”, from 04.09.2010 to 05.09.2010 at Sri Venkateswara College of Engineering, Chennai.
- Participated in the Programme on “Building Competitiveness in Higher Education” organized by Confederation of Indian Industry – Erode District and CII Institute of Quality on 22.01.2010 at Erode.
- Participated in the National Level Workshop on “Research in Computer Science – Issues and Challenges” organized by the Department of Computer Applications (MCA), K.S.Rangasamy College of Technology, Tiruchengode on 17.04.2010.



- Participated in the 13<sup>th</sup> Annual Convention of Tamil Nadu and Pondichery Section on Emerging Trends in Engineering Education – Indian Perspective, organized by K.S.Rangasamy College of Technology, Tiruchengode – 637 215 from October 29 to 30, 2010.
- Participated in the 98<sup>th</sup> Indian Science Congress, organized by SRM University, Chennai from January 3 to 7, 2011.
- Participated in the Regional Summit on Quality in Education organized by Confederation of Indian Industry – Coimbatore Zone & CII Institute of Quality, Bangalore on 21-22 January 2011 at Coimbatore.
- Attended three weeks AICTE sponsored Staff development programme on “Micro Machining & Micro Electro Mechanical Systems”, from 13.06.2011 to 27.06.2011 organized by Department of Mechanical Engineering, Adhiyamaan College of Engineering, Hosur, Tamilnadu.
- Participated in Mission 10X workshop conducted at K.S.Rangasamy College of Technology, Tiruchengode from 13.09.2011 to 17.09.2011.
- Organized the SAE India National Student Convention 2011 at K.S.Rangasamy College of Technology in association with SAE India Southern Section from 30.09.2011 to 01.10.2011.
- Participated in the 1<sup>st</sup> World summit on Accreditation – Achieving Excellence through Accreditation (WOSA 2012) from 25.03.2012 to 28.03.2012 organized by National Board of Accreditation, New Delhi.
- Participated in AICTE-CII University-Industry Congress 2012 - Mechanism to Map Industry Linkages of Institutes on 23.06.2012 at P.S.G College of Technology, Coimbatore.
- Participated in one-day workshop on New Accreditation Process on 29.06.2012 at Anna University, Chennai.
- Participated in one-day workshop on Training of Evaluators/Resource Persons on Outcome Based Accreditation (Phase – I) organized by National Board of Accreditation on 29.04.2013 at Bannari Amman Institute of Technology, Sathyamangalam -638 401.
- Participated in three-day workshop on Training of Evaluators/Resource Persons on Outcome Based Accreditation (Phase – II) organized by National Board of Accreditation from 09.05.2013 to 11.05.2013 at Bannari Amman Institute of Technology, Sathyamangalam -638 401.
- Participated in one day workshop on “Role of NDT & Metallography in Failure Analysis” organized by Department of Mechanical Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi and Society for Failure Analysis, Hyderabad on 06.09.2013.
- Participated in NPTEL workshop organized by National Programme on Technology Enhanced Learning (NPTEL), Indian Institute of Technology Madras, Chennai on 20.09.2013.
- Participated in an AICTE Sponsored Short Term Course on “Introduction to Smart Systems” from 25.11.2013 to 29.11.2013 at Indian Institute of Technology Madras, Chennai – 600 036.
- Attended two weeks refresher course on Materials Preparation and Measurement of Properties organized by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad during 06.05.2014 to 21.05.2014 at Indian Academy of Science, Bangalore.

- Participated in the workshop on “Autonomy to Colleges: Benefits & Way Forward” on 04.02.2019 organized by University Grants Commission, South Eastern Regional Office, Hyderabad at Maulana Azad National Urdu University (MANUU) Gachibowli, Hyderabad.
- Attended workshop on “Opportunities and Challenges in implementation of AICTE Internship Policy” on 29.09.2019 at All India Council for Technical Education (AICTE), New Delhi.
- Attended Online Webinar on “Outcome Based Education” on 18.04.2020 organized by Inpods, Pune.
- Attended the webinar on “Fundamentals of Strength of Materials” on 29.04.2020 organized by Chennai Institute of Technology, Chennai – 600069.
- Participated in Two weeks FDP sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) on “Managing online classes and co-creating MOOCs” from 20.04.2020 to 06.05.2020.
- Attended Sky Campus digital knowledge series 2020 webinar on the theme Leading in a FUTURE IS HERE NOW from 27.04.2020 to 01.05.2020 organized by ICTACT, Chennai.
- Participated in a one week faculty development programme on “Exploring Outcome Based Education (OBE) and NBA Process” from 07.05.2020 to 13.05.2020 organized by Knowledge Institute of Technology, Salem.
- Participated in the Webinar on “Outcome Based Education - Road Map to E – Learning and Accrediation” on 29.05.2020 organized by Informatics Publishing Ltd., Bangalore.
- Participated in the Webinar on “CO-PO attainment computation and outcomes analysis” on 19.06.2020 organized by Inpods India Private Ltd., Pune.
- Participated and completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Mechanics of Composite Materials and Structures" from 09.09.2020 to 13.09.2020 at M.B.M. Engineering College, Faculty of Engineering and Architecture, J.N.V. University, Jodhpur.
- Participated in AICTE sponsored One Week Virtual Short Term Training Programme (STTP) on “Paradigm Shift in Assessment and Evaluation Practices for Engineering Gradutes” organized by Department of Electronics and Communication Engineering, Amal Jyothi College of Engineering from 16.11.2020 to 21.11.2020 (Phase II)
- Participated and Successfully completed One Week Online Short Term Training Programme (STTP) Programme on “Quality Assurance through NAAC Accreditation Process” organized by National Institute of Technical Teachers’ Training and Research, Chennai from 31.05.2021 to 04.06.2021.
- Participated and completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Advancements in Computational Fluid Dynamics using FLUIDYN" from 07.06.2021 to 11.06.2021 at Alliance University, Karnataka. (Certificate No.: ATAL/2021/1620542266)
- Attended One Week Virtual Short Term Training Programme (STTP) on “Development of Mechanical Engineering Laboratory Experiments and Instruction Sheets” organized by National Institute of Technical Teachers’ Training and Research, Kolkata from 07.06.2021 to 11.06.2021.
- Participated and successfully completed Online Orientation Training Programme for Mentors organized by National Institute of Technical

Teachers' Training and Research, Chennai under National Initiative for Technical Teachers Training from 14.06.2021 to 18.06.2021.

- Participated and successfully completed One Week Online Short Term Training Programme (STTP) Programme on “NBA Accreditation Process for UG and PG Programs” organized by National Institute of Technical Teachers' Training and Research, Chennai from 21.06.2021 to 25.06.2021.
- Participated and completed successfully AICTE Training and Learning (ATAL) Academy Basic FDP on "AICTE IDEA Lab" from 26.07.2021 to 30.07.2021 at College of Engineering, Pune.

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## PUBLICATIONS

### International Journals

1. **A Kumaravel**, N Ganesan and Raju Sethuraman, Steady-state analysis of a three-layered electro-magneto-elastic strip in a thermal environment, *Smart Materials and Structures*, Vol. 16, No. 2, pp.282-295, 2007. **Impact Factor:** 3.53
2. N Ganesan, **A Kumaravel** and Raju Sethuraman, Finite element modeling of layered and multiphase magneto-electro-elastic cylindrical shell subjected to axisymmetric temperature distribution, *Journal of Mechanics of Materials and Structures*, Vol. 2 No. 4, pp.655-674, 2007. **Impact Factor:** 1.094
3. **A Kumaravel**, N Ganesan and Raju Sethuraman, Buckling and Vibration analysis of layered and multiphase magneto-electro-elastic beam under thermal environment, *Multidiscipline modeling in materials and structures*, Vol. 3 No. 4, pp. 461 – 476, 2007. **Impact Factor:** 0.700
4. **A Kumaravel**, N Ganesan and Raju Sethuraman, Buckling and Vibration analysis of layered and multiphase magneto-electro-elastic cylinder subjected to uniform temperature load, *Multidiscipline Modeling in Materials and Structures*, Vol. 6 No. 4, pp. 475 -492, 2010. **Impact Factor:** 0.700
5. S. S. Saravanakumar, **A. Kumaravel**, T. Nagarajan, P. Sudhakar, R. Baskaran, Characterization of a novel natural cellulosic fibre from Prosopis juliflora bark, *Carbohydrate Polymers*, Vol. 92, pp. 1928 – 1933, 2013. **Impact Factor:** 6.230
6. V. L. Raja, **A. Kumaravel**, M. Ramesh, T. Karthikeyan, Effective utilization of industrial waste (Fly ash) to enhance the properties of polymer composites for mechanical components, *Journal of Industrial Pollution Control*, Vol. 29, No. 1, pp. 63 – 69, 2013. **Impact Factor:** 1.30.
7. D. Subramaniam, A. Murugesan, A. Avinash, **A. Kumaravel**, Bio-diesel production and its engine characteristics—An expatiated view, *Renewable and Sustainable Energy Reviews*, Vol. 22, pp. 361- 370, 2013. **Impact Factor:** 10.556

8. M. Koilraj Gnanadason, P. SenthilKumar, Vincent H. Wilson, **A. Kumaravel**, Comparison between Performance Analyses of a Single Basin Solar Still Made Up of Copper with and without Use of Vacuum, *International Review of Mechanical Engineering (IREME)*, Vol. 7 (7), pp. 1495 – 1506, 2013. (ISSN: 1970-8734)
9. M. Gnanasekaran and A. Kumaravel, Influence of Activating Flux and Surface Oxidation on Micro Structure and Mechanical Properties of TIG Welded Stainless Steel Weldments, *International Review of Mechanical Engineering (IREME)*, Vol. 7, No. 7, pp. 1507 – 1514, 2013. (ISSN: 1970-8734)
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Signature  
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