

## **FACULTY BIO - DATA**

Name of the Faculty Member : Mr. K. CHELLAMUTHU  
Present Designation : Asst. Professor  
Contact No. : 9944264256,  
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### **I. Particulars of Educational Qualification:**

- 1) Studied B.E. in Mechanical Engineering at M. Kumarasamy College of Engineering, Karur, Anna University, Chennai, 2009
- 2) Studied M.E in CAD/CAM at Mepco Schlenk Engineering College, Sivakasi. Anna University of Technology, Tirunelveli. 2011.
- 3) Pursuing PhD at Anna University, Chennai.

### **II. Title of M.E. Thesis:**

EXPERIMENTAL AND FINITE ELEMENT SIMULATION OF  
HYBRID COMPOSITE TUBES UNDER AXIAL IMPACT

### **III. Academic Experience as on 02.11.2018:**

Name of the College	Designation	From	To	Experience		
				Years	Months	Days
K. Ramakrishnan College of Engineering, Trichy.	Asst. Professor	01. Jul. 2011	Till Date	7	4	2
				7	4	2

### **SUBJECTS TAUGHT / HANDLED**

#### **UG: (B.E – Mechanical Engineering)**

1. Engineering Graphics, 2. Engineering Mechanics, 3. Fluid Mechanics and Machinery
4. Design of Machine Elements, 5. Design of Transmission Systems, 6. Finite Element Analysis

#### **PG: (M.E – Engineering Design)**

1. Computer Applications in Design, 2. Design for Manufacture, Assembly and Environments 3. Composite Materials and Mechanics

### **IV. List of Publications:**

#### **A) INTERNATIONAL JOURNALS: 04**

1) **K. Chellamuthu**, T. Dharun Kumar, R. Sanjeevi "Design of Experimental setup for Producing Stud Bolt in Circular Rolling Machine", International Journal of Mechanical Engineering and Robotics Research, Vol 3, Issue No 1, pages from 1 to 7, April 2014, ISSN 2278-0149.

2) V. Vijayan, T. Karthikeyan, **K. Chellamuthu** "Passive Vibration Isolation by Compliant Mechanism using Topology Optimization", International Journal of Acoustics and Vibration, Vol 19, Issue No 4, pages from 269 to 275, June 2014, ISSN 1027-5851.

3) K. Karthik, N. Naveenkumar, C. Nirmalkumar, S. Hariharakumaran, **K. Chellamuthu**, “Experimental Investigations of Mechanical Properties of Carbon Fiber Reinforced Polymers(CFRP) for structural applications”, International Journal of Advance Research and Innovative Ideas in Education, Vol 4, Issue No 2, pages from 2017 to 2026, April 2018, ISSN 2395-4396.

4) Mohammad Chand Khan, J. Noorul Ameen, H. Ramakrishnan, **K. Chellamuthu**, S. Nandhagopan “Application of Six Sigma Principles and Design-Analysis Softwares to Increase the Pass Percentage at the Vehicle Testing Shop”, International Journal of Pure and Applied Mathematics, Vol 120, Issue No 6, pages from 2593 to 2608, July 2018, ISSN 1314-3395.

#### **B) INTERNATIONAL CONFERENCE: 05**

1) **K. Chellamuthu**, A. Vasanthanathan, “FRP Piping Systems: Offshore and Naval Perspective”, Second International Conference on Sonar Systems and Sensors, Pages from 412 - 415, Feb 2018, DRDO, NPOL, Kochi.

2) **K. Chellamuthu**, T. Dharun Kumar, R. Sanjeevi "Design of Experimental setup for Producing Stud Bolt in Circular rolling machine", National conference, Feb 2014, S.A Engineering college Chennai.

3) **K. Chellamuthu**, A. Vasanthanathan, P. Nagaraj "Experimental and FE Simulation of Hybrid Composite Tubes under Axial Compression", Third Asian Conference on Mechanics of Functional Materials and Structures, Pages from 481 to 485, Dec 2012, IIT- Delhi.

4) **K. Chellamuthu**, A. Vasanthanathan, "Finite Element Analysis of Hybrid Composite Tubes under Axial Crushing", National Conference on Advances in Mechanical Sciences, Apr 2011, Government College of Technology, Coimbatore.

5) **K. Chellamuthu**, A. Vasanthanathan, "Finite Element Analysis of Hybrid Composite Tubes under Axial Impact", CSIR Sponsored One Day National Level Conference, Mar 2011, Kamaraj College of Engineering and Technology, Virudhunagar.

#### **V) GRANTS RECEIVED (01):**

- 1) Received **Rs 60,000** /- from Centre for Faculty Development (CFD), Anna University, Chennai to conduct Seven days FDTP on “Fluid Mechanics and Machinery” from 24<sup>th</sup> June 2014 to 30<sup>th</sup> June 2014.

#### **VI) PATENTS (01):**

- Applied the “Economical Sugarcane Cutting Machine” mini project for the “Intellectual Property Rights” and the same has been published in Journal No. 21 / 2008 dated on 23<sup>rd</sup> May 2008.

#### **OTHER RESPOSIBILITIES HELD:**

- 1) Asst. HOD in charge – Department of Mechanical Engineering, K. Ramakrishnan College of Engineering from 04<sup>th</sup> March 2013 to 15<sup>th</sup> June 2015.
- 2) HOD in charge – Department of Mechanical Engineering, K. Ramakrishnan College of Engineering from 16<sup>th</sup> June 2015 to 31<sup>st</sup> May 2018.
- 3) Asst. HOD in charge – Department of Mechanical Engineering, K. Ramakrishnan College of Engineering from 01<sup>st</sup> June 2018 to Till Date.

4) R&D Cell Member for K. Ramakrishnan College of Engineering from June 2015 to Till Date.

**VII. List of Short Term Course Attended:**

Sl. No.	Name of the Programme	Duration (Days)	From	To	College and Place
1	Product Design Analysis Using Hyper mesh	01	04.04.2012	***	K.L.N College of Engineering, Madurai.
2	Applications of Finite Element Method in Academic and Industrial Research	03	06.06.2013	08.06.2013	National Institute of Technology, Trichy.
3	Faculty Development Programme	01	22.08.2013	***	K. Ramakrishnan College of Engineering, Trichy.
4	Applications of Finite Element Method in Acoustic and Vibration Analysis	02	22.04.2016	23.04.2016	VIT, Vellore.
5	Workshop on Hyper Mesh FEA Software	02	23.01.2017	24.01.2017	MEPCO SCHLENK Engineering College, Sivakasi.
6	Short-term training programme (STTP) on Composite Structures: Theory, Manufacturing, Mechanics & FE Modeling	05	07.05.2018	11.05.2018	MEPCO SCHLENK Engineering College, Sivakasi.
7	Composite Pre form Formation Technique	02	27.07.2018	28.07.2018	PSG College of Technology, Coimbatore.
8	Finite Element Analysis for Structural Applications	03	31.08.2018	02.09.2018	MEPCO SCHLENK Engineering College, Sivakasi.
9	NPTEL Course on Manufacturing of Composites	08 Weeks	Aug 2018	Sep 2018	Completed with Elite Grade (80%), IIT, Kanpur.

**VIII. List of Short Term Course Organized:**

Sl. No.	Name of the Programme	Duration (Days)	From	To	College and Place
1	FDTP on "Fluid Mechanics and Machinery"	07	24.06.2014	30.06.2014	K. Ramakrishnan College of Engineering, Trichy.