



PROFILE

T. RAJA, ME, Ph.D.,

PROFESSIONAL EXPERIENCE

TOTAL TEACHING EXPERIENCE:

07 Years

PERSONAL DATA

Date of Birth : 28th Aug 1989

Sex : Male

Nationality : Indian

Marital Status : Married

Passport Number : L1038168

E-MAIL

rajasd28@gmail.com

ADDRESS FOR COMMUNICATIONS

41, North Street,
Periyagaram, Polur taluk- 606803,
Tiruvannamalai District.
Mobile: 9487948769

GOOGLE SCHOLAR CITATIONS: 73

H Index: 05

I 10 Index: 03

EDUCATION DETAILS

Doctor of Philosophy (Composite Materials)

(2016-2020)

Vel Tech University, Chennai

Master of Engineering (Engineering Design)

(2012-2014)

Anna University, Chennai

First Class (7.67 CGPA)

Bachelor of Engineering (Mechanical Engineering)

(2007-2011)

Anna University, Chennai

First Class (70 %)

Higher Secondary School

(April 2007)

Govt Boys Hr. Sec School, Polur

First Class (61 %)

S.S.L.C

(April 2005)

Town Matric Hr. Sec School, Polur

First Class (60%)

ACHIEVEMENTS

- Published more than **19** papers in various reputed International Journals.
- **Proposals on using natural fiber helmet as a potential alternative of conventional synthetic helmet are in the final stage for submission to various funding agencies.**
- A reviewer in reputed International Journals namely; MATERIAL PERFORMANCE & CHARACTERIZATION, CONSTRUCTION & BUILDING MATERIALS, FUELS, INDUSTRIAL TEXTILES, MECHANICAL SCIENCES, BIOMASS CONVERSION, CANADIAN SOCIETY FOR MECHANICAL, MATERIALS TODAY, etc.
- Have completed many online courses from **COURSEERA** recognized by various international universities.
- Worked for ISO, NBA, NAAC and other College Activities.
- Member of Research Committee, International SAE Association.

AREA OF EXPERTISE

- ❖ Composite Materials
- ❖ Mechanics of Materials
- ❖ Finite Element Analysis
- ❖ Vibration Analysis and Control
- ❖ Material Characterization

PROFESSIONAL EXPERIENCE

College	:	Vel Tech University, Chennai
Period	:	19.06.2014 to Till
Designation	:	Assistant Professor
Description	:	Working as a Assistant Professor in the Department of Mechanical Engineering

College	:	Sri Renugambal Poly Technique College, Polur
Period	:	June 2011 to June 2012
Designation	:	Lecturer
Description	:	Worked as an Lecturer in the Department of Mechanical Engineering

PAPERS PUBLISHED - (SCIENCE CITATION INDEXED and SCOPUS- JOURNAL)

My research interest focuses on the composite materials, natural fibers, material characterization. In the past three years. I have published more than **10** papers on **Peer-reviewed SCI and Scopus International Journals** including Testing and Evaluation, Material Performance and Characterization, Ambient Energy, etc These papers have been cited more than **70** times by many pioneer scientists in our fields. The details are published works are detailed below-

1. **R. Thandavamoorthy** and A. Palanivel "Testing and Evaluation of Tensile and Impact Strength of Neem/Banyan Fiber-Reinforced Hybrid Composite." Journal of Testing and Evaluation 48, 1, 2020, (ASTM Publication – SCI).

2. **T. Raja** and P. Anand, “Evaluation of Thermal Stability and Thermal Properties of Neem/Banyan Reinforced Hybrid Polymer Composite,” *Materials Performance and Characterization* 8, no1, (2019): 481–490, (ASTM Publication – Web of Science).
3. **T. Raja**, P. Anand, M. Sundarraj, M. Karthick and A. Kannappan, “Failure Analysis of Natural Fiber Reinforced Polymer Composite Leaf Spring,” *International Journal of Mechanical Engineering and Technology* 9(2), 2018. pp. 686–689. (Scopus Index)
4. **T. Raja**, P. Anand, M. Karthik and M. Sundaraj, “Evaluation of Mechanical Properties of Natural Fiber Reinforced Composites – A Review,” *International Journal of Mechanical Engineering and Technology*, 8(7), 2017, pp. 915–924. (Scopus Index)
5. **Thandavamoorthy Raja** and Palanivel Anand, “Mechanical investigations on Neem/Banyan fibers reinforced with ceramic powder particulates hybrid polymer composite helmet IOP Conf. Ser.: Mater. Sci. Eng 988 (2020) 012090. (Scopus Index)
6. **T Raja**, M Sundarraj, M Karthick, Analysis on emission behaviour of butanol–biodiesel blends fuelled constant speed diesel engine, *International Journal of Ambient Energy*, 42, 3, 2021, 340-344. (Taylor & Francis) (Scopus Index)
7. **T Raja**, K. Karthick, S. Prabu and R. Ganesh, Power generated by using dynamic shock absorber for automobile system, *International Journal of Mechanical Engineering and Technology*, 10,17, 37243-47, 2018. (Scopus Index)
8. **T Raja**, M Sundarraj, S. Prabu and K. Lokesh, Six sigma approach for detection and reducing casting defects, *International Journal of Mechanical Engineering and Technology*, **2018, 9(5)**, pp. 669–674. ([Scopus Index](#))
9. M Karthick, S Ganesan, **T Raja**, Study on emission characteristics of a methanol–biodiesel blends fuelled diesel engine, *International Journal of Ambient Energy*, 42,3, 2021, 314-318, (Taylor & Francis) (Scopus Index)

MEMBERSHIP

❖ **Member of SAE (Society of Automotive Engineers, USA) since 2016 (7160411718)**

❖ **Member of IAENG (International Association of Engineers) since 2015 (Member No: 162099)**

CONFERENCES CO-ORDINATED

National Conference on Design, Materials and Constructions March 05-07, 2018,
Department of Mechanical Engineering, Vel Tech University, Chennai.

DECLARATION

I hereby confirm that the above information is correct and true to best of my knowledge.

Thanking You,

Place: Chennai

Truly



(T. RAJA)