Name : **Dr. S.Thanga Kasi Rajan**

Data of Birth : 02.11.1979

Mobile Number : ( +91) 9942670301

E-Mail ID : stkrajan@gmail.com,

 thangakasirajanmech@kamarajengg.edu.in

Qualification : M.E., Ph.D.

**Educational Qualifications :**

|  |  |  |
| --- | --- | --- |
| Degree  | College / University | **Month & Year of Passing** |
| Ph.D. (Mechanical Engineering) | Anna University, Chennai | August 2020 |
| M.E (Manufacturing Engineering) | K.L.N. College of Engineering - Madurai. | June 200777% (First class with Distinction) |
| B.E (Mechanical) | K.L.N. College of Engineering - Madurai. | April 200172 % (First Class ) |

**Work Experience :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the College** | **Designation** | **Joining Date** | **Relieving Date** | **Experience** |
| **Years** | **Months** |
| Kamaraj College of Engineering and Technology | Asst. Prof | 12/12/2011 | Till date | 10 | 7 |
| Ultra College of Engineering and Technology | Asst. Prof | 04/06/2009 | 03/12/2011 | 2 | 6 |
| Kalasalingam University | Asst. Prof | 01/12/2008 | 02/06/2009 |  | 6 |
| Karpaga Vinayaga College of Engineering and Technology | Asst. Prof | 02/07/2007 | 30/11/2008 | 1 | 5 |
| K.L.N. College of Information Technology | Lecturer | 04/08/2003 | 30/06/2007 | 4 |  |
| Vickram College of Engineering | Lecturer | 03/08/2002 | 30/07/2003 | 1 |  |
| **Total** | 20 | 0 |

**Ph.D. Research Work:**

 **Name of the Supervisor :** Dr. A. N. Balaji, M.E., Ph.D.

 Professor/ Mechanical

 K.L.N. College of Engineering

 Pottapalayam – 630711.

 **Faculty :** Mechanical Engineering

 **Category :** Part- Time

 **University :** Anna University Chennai

 **Title of Work :** Wear Mechanical and Corrosion Behaviour of Copper – Fly Ash – Tungsten Hybrid Composites

 **Date of Viva-voce :** 28.08.2020

**Research Supervisor**

Recognized as a supervisor for Ph.D Programme **(Ref No.4020016)** of Anna University Chennai under the **Faculty of Mechanical Engineering**

**DC Member**

 **Name of the Candidate :** Mr. M. Selvakumar

 **Reg. No. :** 21142891131

 **Name of the Supervisor :** Dr. B. Raja Mohamed Rabi

Professor/ Mechanical

 Sethu Institute of Technology, Kariapatti

**Research Papers Published**

**International Journals : 8**

1. **Thanga Kasi Rajan,S**., Balaji, A. N., Raghav, G. R., Nagarajan, K. J., & Vettivel, S. C. (2020). Investigation and characterization of Copper-Fly ash-Tungsten hybrid composites synthesized through P/M process. *Materials Research Express*, vol. *7 no.*3. pp. 036531 Annexure I, (Impact Factor 1.941).
2. **Thanga Kasi Rajan, S**, Balaji, AN, Raghav, GR & Vettivel, SC 2019, ‘Compression and corrosion behaviour of sintered copper-fly ash composite material’, Materials Research Express, vol. 6, no. 4,P. 046524Annexure I, (Impact Factor 1.941).
3. **Thanga Kasi Rajan S**. Balaji, A.N, Narayanasamy, P., & VettiveL, S. C. (2018). Microstructural, electrical, thermal and tribological studies of copper-fly ash composites through powder metallurgy. *Bull. Pol. Ac.: Tech*, Vol. *66*, issue 6. Annexure I, (Impact Factor 1.941).
4. Nagarajan, K. J., Balaji, A. N., Ramanujam, N. R., & **Thanga Kasi Rajan S** (2019). Preparation and characterization of alkali treated cocos nucifera var aurantiaca peduncle fibers reinforced epoxy composites. *Materials Research Express*. Volume No. 6 , Issue No.12, P. 125310 Annexure I, (Impact Factor 1.941)
5. K.J.Nagarajana , A.N.Balaji , **S. Thanga Kasi Rajan** , K.Sathick Basha (2019) Effect of sulfuric acid reaction time on the properties and behavior of cellulose nanocrystals from Cocos nucifera var-Aurantiaca peduncle’s cellulose microfibers.  *Materials Research Express* Volume No. 6 , Issue No.12, P. 125333, Annexure I,(Impact Factor 1.941)
6. Nagarajan, K. J., Balaji, A. N., **Thanga Kasi Rajan. S**, & Ramanujam, N. R. (2020). Preparation of bio-eco based cellulose nanomaterials from used disposal paper cups through citric acid ydrolysis. *Carbohydrate Polymers*, *235*, 115997. Annexure I,(Impact Factor 7.64 )
7. Sureshkumar, P., Sasikumar, C., **S. Thanga Kasi Rajan**., Jagadeesha, T., Natrayan, L., Ravichandran, M. Dhinakaran Veeman,& Borek, W. (2022). Evaluation of mechanical and wear properties of AA6063/(Si3N4) 6-12%/(CuN2O6) 2-4% composite via PM route and optimization through robust design technique. *Materials Research Express*, vol. 9 pp.076502 Annexure I, (Impact Factor 1.941)
8. **S. Thanga Kasi Rajan,** A.N. Balaji, U. Udhaya Sankar, Vettivel. S.C(2014), ‘Effect on Sliding distance on 10 % Tungsten reinforced Copper Composite Material’, International Journal of Innovative Research in Science Engineering and Technology, volume 3, special issue 3, ISSN (print) 2347 – 6710.

**National Conferences : 10**

1. S. Thanga Kasi Rajan, Dr. A.N. Balaji, “A Simulated Annealing Algorithm for Multi – objective Permutation Flow shop Scheduling Problem” Faseinating Advancement in Mechanical Engineerng (FAME) on Feb 8th 2007 at Mepco Schlenk Engineering College, Sivakasi.
2. S. Thanga Kasi Rajan, Dr. A.N. Balaji “ A Particle Swarm Optimization Algorithm for Multi – objective Permutation Flow shop Scheduling Problem” National Conference on Modelling and Simulation Techniques in Manufacturing Engineerng (MSME 2007), on March 16th 2007 at Panimalar College of Engineering, Chennai
3. S. Thanga Kasi Rajan, Dr. A.N. Balaji, U. Udhaya Sankar, Vettivel. S.C (2014), ‘Effect on Sliding distance on 10 % Tungsten reinforced Copper Composite Material’, International Conference on Innovations in Engineering and Technology (ICIET’14) on 21st and 22nd March 2014 at K.L.N.College of Engineering and Technology,
4. S. Thanga Kasi Rajan,S. Santhosh Kumar, “Design and Fabrication of Electric Turbocharger for 1.4 litre Diesel Engine”, 3rd National Conference in Trends in Automotive parts Systems and Applications TAPSA 2015 Society of Automotive Engineering India, SKCET Collegiate Club, Coimbatore, 20th and 21st March 2015.
5. S. Thanga Kasi Rajan, M. James Jesudoss, “ Wear Behaviour of Copper Tungsten – Flyash Nano Composite Material”, 3rd National Conference in Trends in Automotive parts Systems and Applications TAPSA 2015 Society of Automotive Engineering India, SKCET Collegiate Club, Coimbatore, 20th and 21st March 2015.
6. S.Thanga Kasi Rajan, A.N. Balaji,, S. Rammohan “Characterization of Copper – Fly ash Composite Material by powder Metallurgy Technique”, National Conference on Recent Advancement in Mechanical Engineering, on 07th April 2016 at Kamaraj College of Engineering & Technology
7. Thanga Kasi Rajan, A.N. Balaji,, S. Rammohan “Characterization of Copper – Fly ash Composite Material by powder Metallurgy Technique”, National Conference on Recent Advancement in Mechanical Engineering, on 07th April 2016 at Kamaraj College of Engineering & Technology
8. Thanga Kasi Rajan, A.N. Balaji , T. Vivekanandan.” Experimental Investigation of Copper Tungsten Graphite Hybrid Composite Material “ National Conference on Recent Innovations and Trends in Mechanical Engineering NCRITME 17 on 23rd and 24th March 2017 at Rajalakshmi Institute of Technology, Chennai.
9. S.Thanga Kasi Rajan, N.Pavalanathan, S.Ajith Kumar “Design Of Double Belt Gripper Arrangement To Minimize Sleeve Defect In Stripping Machine”, National Conference on Recent Advancement in Mechanical Engineering, on 30th March 2017 at Kamaraj College of Engineering & Technology
10. S. Thanga Kasi Rajan, M. Muthukumar, J.Alaguraja, A.Vigneshkumar “Elimination of Burr on Head And Bearing Face Defect In M42450 Wheel Bolt” National Conference on Recent Advancement in Mechanical Engineering, on 30th March 2017 at Kamaraj College of Engineering & Technology

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| --- | --- | --- | --- | --- | --- | --- |
| 1 | HAND BOOK FOR DESIGN AND FABRICATION PROJECT | Literary/ Dramatic Work | 2653/2020-CO/L | Thanga Kasi Rajan.S(AP/Mech)DR.S.Senthil, Prof & Head/Mech,Balavairavan. B, AP/Mech | L-92155/2020 | 16/06/2020 |
| 2 | PO-CO Attainment Calculation Sheet for various assessments using MS Excel (Version 1) | Computer Software | 13533/2019-CO/SW | Sakthivel Murugan.R(AP/Mech)Thanga Kasi Rajan.S(AP/Mech) | SW-13027/2019 | 02/12/2019 |
| 3 | PO-CO Attainment Calculation Sheet for Cycle Test and various assessments using MS Excel (Version 2) | Computer Software | 14275/2019-CO/SW | Sakthivel Murugan.R(AP/Mech)Thanga Kasi Rajan.S(AP/Mech)Madhan.N. R(AP/Mech) | SW-12999/2019 | 21/11/2019 |

**Funded Projects**

1. Tamilnadu State Council for Science and Technology-Rs.10,000/- for the project entitled ‘‘A novel way of Design and Fabrication of Automatic Drunken drive Prevention System by Locking Accelerator pedal in Light and Heavy Duty Vehicles

**NPTEL/ Mooc Courses**

1. Completed two weeks FDP programme on “Managing Online Classes and Co-Creating MOOC from April 20 – May 06,2020 organized by Teaching Learning Centre, Ramanujam College, University of Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching
2. Completed successfully two weeks FDP programme on “Advanced Concepts for Developing MOOCS” from July 02 – July 17,2020 organized by Teaching Learning Centre, Ramanujam College, University of Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching
3. Completed successfully with Elite NPTEL Online Certification on Accreditation and Outcome Based Learning (score 84 %)

**Faculty Development Programme/Workshops/Seminars Attended**

1. Attended one week online Faculty Development Programme on *Fabrication, characterization and Strengthening Mechanism on Composites* organized by Department of Mechanical Engineering, Academy of Marine Education and Training (AMET) deemed to be university from 13th to 18th December 2021
2. Participated 4 days online course on *Examination Reforms* conducted during April 22 – 25, 2020 organized by AICTE,
3. Attended one day workshop on *Ideation and Proposal Writing Workshop*”organized by Rural Technology Action Group, IIT Madras on 12th February 2020.
4. Successfully completed NPTEL-AICTE FDP on *Accreditation and Outcome based Learning* (equivalent to one week FDP)
5. Attended oneday Training Programme on *Internet of Things in Manufacturing* on 08.11.2019 at Siemens Centre for Excellance in Manufacturing at National Institute of Technology – Tiruchirapalli.
6. Attended one day *Regional planning workshop on UBA 2.0* for participating Institute held on 26.07.2019 at Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul District.
7. Attended one day workshop on *Intellectual Property Rights and Patent Drafting* held on July 17, 2019 organized by department of Mechanical Engineering, Kamaraj College of Engineering and Technology.
8. Attended one day workshop on *ICT enablement in Higher Education for improving and streamlining processes, be compliance ready and adopt digital transformation* on 3rd May 2019 in Madurai, conducted by MAsterSoft ERP Solutions Pvt, Ltd.
9. Attended 3 day NLP training and completed *NLP Practitioner Level 1* at KKID, Mankarai, Coimbatore from Feb 21-24, 2019.
10. Attended three day FDP program on *Teaching Learning Centric*, Conducted by PALS, IIT Madras, Chennai from 01.12.2018 – 03.12.2018.
11. Attended two day Hands on workshop on *Autodesk Fusion 360* conducted by Department of Mechanical Engineering in Collaboration with ICT Academy of Tamil Nadu from 18th to 19th July 2017.
12. Attended two day workshop on *ANSYS CFD* conducted at Kamaraj College of Engineering & Technology from 16th March to 17th March 2017
13. Attended two day workshop on *Research Issues in Powder Metallurgy* held at Mepco Schlenk Engineering College on 30th and 31st December 2016.
14. Attended one day Faculty Development Workshop on Autodesk – Faculty Development Workshop, Conducted by ICT academy of Tamil Nadu at The Hotel Gate Way, Pasumalai on 05th May 2016
15. Attended one day NBA Awareness workshop on *Outcome based Education and Accreditation*, sponsored by NBA, New Delhi on 3rd October 2015 at Anna University CEG campus, Chennai.
16. Attended IMTEX 15, 6thInternational Seminar on Machine tools conducted by Indian Machine Tools association on 21/01/2015 and Machine Tool Exhibition – IMTEX 2015 on 22/01/2015 at Bangalore.
17. One week Faculty Development Program on ME2352 – *Design of Transmission Systems* at Kamaraj College of Engineering and Technology and centre for Faculty Development, Anna University, Chennai – 600 025 from 10th to 17th December 2013.
18. Attended two day workshop on *Recent Trends in Composite Materials and its applications* organized by Department of Mechanical Engineering,K.L.N. College of Engineering, Pottapalayam on 13th & 14th August 2013.
19. Attended 5 day workshop on *Digital Prototyping* conducted by ICT Academy of Tamilnadu between 19th and 23rd of March 2012
20. Two weeks Anna university Training program on *Engineering Mechanics* at K.L.N.College of Engineering , Madurai from 03.07.06 to 15.07.06.
21. Two day work shop on *Artificial and Neural Networks* Conducted at Rajeswari Engineering College, Chennai On 26.08.05 to 27. 08.05

**Workshops/Seminars/FDPs Organized**

1. Organized workshop “Hands on Training on Basic Fire Fighting” for Non- Teaching Staff on “Accreditation Processes” on 05.02.2022 to all non teaching faculty of Kamaraj College of Engineering and Technology
2. Organized one day Professional Development Programme for Non- Teaching Staff on “Accreditation Processes” on 04.02.2022 to all non teaching faculty of Kamaraj College of Engineering and Technology
3. Organized two day online programme on “ How to handle Online classes for school Teachers on 15/06/2020 to 16/06/2020.
4. Organized one day district level consultative meeting with the coordinators of the Participating Institutes in UBA, virudhunagar. On September 12th 2019.
5. Organized three day faculty development programme on “PRODUCT DESIGN ENGINEER” in collaboration with ICTACT from 26/04/2018 to 28/04/2018.
6. Coordinated two day Hands on workshop on Autodesk Fusion 360 in collaboration with ICTACT at Kamaraj College of Engineering & Technology from July 18th & 19th 2017.
7. Coordinated two day Faculty Development programme on ANSYS CFD at Kamaraj College of Engineering & Technology from 16.3.2017 – 17.3.2017.
8. Coordinated three day hands on workshop on Basics of ANSYS CFD at Kamaraj college of Engineering and Technology from 13.3.2017 – 15.3.2017
9. Coordinated one day workshop on Autodesk Fusion 360 at Kamaraj College of Engineering and Technology on 10.12.2016
10. Coordinated one day workshop on Digital Prototyping using Autodesk Inventor 2015 at Kamaraj College of Engineering and Technology on 03.11.2016.
11. Coordinated National level technical symposium ENXENEIRO 2013 at Kamaraj College of Engineering and Technology
12. Coordinated one day National seminar on One Day National Seminar on Optimization Techniques in Engineering Applications18th February 2010 at Ultra College of Engineering & Technology for Women

**Seminars/Guest Lectures Delivered**

1. Delivered a session in Faculty Orientation programme on “Assessment process in Autonomous Institution” through IQAC of Kamaraj College of Engineering and Technology on 19.01.2022
2. Delivered two day Factulty Development Programme on “How to handle Online class” to all school Teachers of APT Durairaj Higher Secondary School, Madurai from 26.06.2021 to 27.06.2021
3. Acted as external expert member in **NBA Mock Audit** at Rohini College of Engineering and Technology, Near Anjugramam Junction, Kanyakumari Main Road, Palkulam 629 401 on 04.12.2020 to 05.12.2020.
4. Delivered a online session on “**How to handle online Classes**” for School teachers especially Madurai, Theni, Virudhunagar, Sivakasi and Rural areas and polytechnic faculties (<https://www.youtube.com/watch?v=wuFvHHHY-a0>)
5. Delivered two day online session on “**Examination Reforms**” on 20/05/2020 to 21/05/2020 at KCET.
6. Acted as a Jury and judged the projects in **ANMOL SHRISTI 2020** – A Mega Science Exhibition held on 10.01.2020 organized by Velammal Vidyalaya School.
7. Acted as resource person and handled three session Titled “**Assessment and Evaluation Tools”** in Aicte-Iste- Sponsored FDP On **Pedagogical Initiatives In Outcome Based Education** on 20/06/2018 & 21/06/2018 at Kamaraj College of Engineering & Technology.
8. Delivered Guest Lecture on **Outcome based Education** on 28.07.2017 at P S N College of Engineering & Technology Tirunelveli.
9. Delivered one day Guest lecture on **Autodesk Fusion 360** at Saranathan College of Engineering, Tiruchirapalli on 30/12/2016
10. Delivered one day Guest lecture on **Autodesk Fusion 360** at Marthandam College of Engineering & Technology, Marthandam on 27/12/2016
11. Delivered one day Guest lecture on Autodesk Fusion 360 at K. Ramakrishnan College of Engineering, Tiruchirapalli on 26/12/2016.
12. Delivered a Lecture on **Engineering Mechanics** in the Anna University supported Faculty Development Programme organized at Kamaraj College of Engineering and Technology from 08/12/2014 – 14/12/2014.

**Value added Courses Conducted**

40 hour Value Added International certification course on **“AUTODESK INVENTOR 2015”** was conducted in the year 2016 – 2017**.**

No. of Students Enrolled = 56.

Approved Amount per Student = Rs.4500/-

Duration of the course = 40 Hrs.

No. of Batches handled = 2 batches

**No. of Students received International Certification = 47 students**

**Social Responsibilities**

* Coordinator of Unnath Bharat Abiyan (C-27075)
* Received Rs.50,000/- for conducing Surveys and awareness programme
* Conducted online class on “ How to Handle Online class for school teachers” in Covid Pandemic Situation
* Organized online webinar on NEW Education Policy 2020 to school and college Faculties

**Contribution to the Department:**

Joined in the Department of Mechanical Engineering from 12th Dec 2011 to till date,

**Academic responsibilities**

1. Work Load and Time Table Committee member (2014 – 2017)
2. Acts as a Chairperson. Counsel the students as tutor and Mentor.
3. Department level manufacturing stream In-charge
4. Question paper Scrutiny – subject expert in Manufacturing Stream.

**Department level coordinator / programmes organized**

1. Coordinator (department level) ICTACT Autodesk Design Academy (2013-2018)
2. **UG Programme Coordinator** (Curriculum and syllabus development)
3. Conduct of BOS meeting
4. Student Project Coordinator
5. Member in three member committee for online NPTEL Course in KCET UG and PG Regulations.
6. Organizes many events such as Symposium, Workshop, FDP, seminars for students, staff, school and polytechnic teachers.
7. NPTEL student coordinator (2014 – 2016)
8. Conduct value added courses for the students.

 **Development activities**

1. Establishment of **CAD Lab** in 2013
2. Strength of Materials (2012-13) & CAD lab In-charge (2013-2018).
3. **NBA Coordinator** of the department and got NBA accreditation from 2017 to 2020. Also got NBA extension of accreditation for the department from 2020 to 2023.
4. Member in Department level PAC and QIC meetings
5. A member in Implementation of new and challenging works in the department like implementation of OBE Process.
6. Created **CO-PO excel tool** for CO-PO mapping, attainment calculation.
7. Created many systems and process for the development of the department.

**Contribution to the Institution:**

**Academic Work**

1. **Academic Coordinator** of the Institute and working with IQAC and Dean Academic courses.
2. Working as one of the **core members in IQAC** and implementing many formats, systems and centralizing the data.
3. Prepared the **KCET Regulation R 2020 for both UG and PG**.
4. Prepared the **KCET Regulation R 2021 for UG**.
5. Prepared **four versions of CO-PO tool** for calculating attainments. This tool is now implemented and followed since January 2017 to till date.
6. Prepared many systems and formats required for NBA.
7. Conduct Internal and external audit to various departments
8. Committee member in various college level events like college day, sports day and graduation day.
9. Conducted **three academic council meetings with Dean Academic courses**
10. Conducted Induction Programme for newly joined faculties

**AICTE/Accreditation related works**

1. **NBA Coordinator** of the Institute and got accreditation for the departments ECE, CSE, PT, IT and MTRE.
2. Worked as one of the core member in preparing the report for Autonomous status (UGC Performa and AU Performa)
3. Disseminates the **AICTE Examination reforms** to our faculty and given training on setting question paper at different knowledge level.
4. **Coordinator of Unnat Bharat Abiyan (UBA)** and received fund of Rs.50,000/-.

**Admission Promotion**

1. As a part of admission Promotion, Delivered Lecture on “**How to Handle online class easily” to school and polytechnic teachers and to the private tuition teachers through their Association**. This video is available in youtube and establishes contacts with more than 400 schools.

**Personal Details**

Name : S.Thanga Kasi Rajan

Data of Birth : 02.11.1979

Nationality : Indian

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**Dr. S. Thanga Kasi Rajan**