

RESUME

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References:

Dr.Biju N
Professor
Mechanical Engineering
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Associate Professor
MEC, Trikkakara
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PRAMOD RAMAKRISHNAN

CAREER SUMMARY

Inspiring Professor brings advanced teaching skills and department leadership experience. Goal-oriented to advance department, improve teaching and modernize courses. Extensive background in research and university fundraising.

Committed and engaging Assistant Professor in Mechanical Engineering, bringing exceptional lecturing skills and expertise in Production Engineering, Friction Stir Welding.

Insightful Assistant Professor with 18 years of UG classroom expertise. Expert in Mechanical Engineering and under graduate teaching methods with commitment to long-term student success. Proven history of helping both students and professors achieve academic goals.

Education Qualification

PhD Doing (Paper Published, Thesis writing)

- COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY.
KALAMASSERY.

Alloy Modification and Process parameter optimization of Friction stir welded 6063 Al alloy. Alloy modification was conducted by adding silicon carbide particle and casted the alloy using stir casting technique. Process parameter optimization was conducted by RSM (Response Surface Methodology) Highlighted results on weld strength, weld quality, surface finish, and microstructure evaluation.

M.TECH. in Production and Industrial Engineering (2011) (7.6 CGPA)

- M.G UNIVERSITY KOTTAYAM, M.A COLEEGE OF ENGG.
KOTHAMANGALAM.KERALA. INDIA

Professional development completed in Production and Industrial Engineering.

Core courses familiarized as Advanced Machining Process, Advances in Metallurgy and material science, Meteorological Inspection, Project Management, Principles of Management, Supply Chain Management, Financial Management, Flexible Manufacturing Systems, Industrial automation and sensors, CAD/CAM, Matlab, and SPSS.

B.TECH. in Mechanical Engineering (2006)

- COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, COLEEGE
OF ENGG. ADOOR.KERALA (74.85 %)

Professional development completed in the field of Mechanical Engineering. The core subjects gained as Fluid Mechanics and Machinery, Thermodynamics and Heat Transfer, Production Technology and Manufacturing Engg, Refrigeration and Air Conditioning, Machine Design and drawing. Mechanics and Dynamics of Machinery, Heat Engines laboratory, Fluid Mechanics Laboratory, Machine shops, Thermal Engg Laboratory.

PLUSTWO. SCIENCE GROUP (2001) :- 79.77 %

- BOARD OF HIGHER SECONDARY EXAMINATIONS, KERALA.

S.S.L.C (1999) :- 79.66 %

- PUBLIC EXAMINATIONS KERALA.

Area of Interest

Design In Mechanical Engg.

CAD/CAM.

CNC Programing.

Software : Auto Cad2014,Pro-E2001,wildfire-4, wildfire-4,Ansys,Primavera,Solid

Works,Cosmos.

Operating System : Dos,Windows

Packages : Ms Office, Ms Word,SPSS,Matlab.

Life Objective

- To be in the good part of history.

Strength

My commitment and sincerity will be the key for my success.

I am ready to shoulder any responsibilities and I am also ready for relocation.

Ability to work in a team or individually, interested in taking challenging tasks

Projects Undergone.

Friction Stir Processing On 6063 Al Alloy.(M.Tech)

Mechanization of Clay Handling System at Hnl Velloor (B.Tech)

Design of Engine Crank Shaft Assembly

Diploma in Mechanical Cad at Kottayam CAD CENTRE during 2006.

Industrial Exposure.

- Inplant Training AT COCHIN PORT TRUST. ,COCHIN,Kerala

Teaching Exposure. (17 years)

1. **Assistant Professor |Kunjali Marakkar School of Marine Engg. CUSAT Kochi, Kerala - June 2020 – 2024 July.**
 - Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations.
 - Took attendance, graded assignments and maintained student records to assist teachers with administrative tasks and maintain smooth daily operations.
 - Revised course objectives, course materials, instructional and assessment strategies for courses.
 - Performed research to serve as basis for academic writing for publication.
 - Criterion coordinator of NAAC, CIP (Comprehensive Inspection Programme)
 - Classes conduct as per OBE (Outcome Based Education), CO (Course outcome) attainment.
 - Project Coordinator, class adviser, lab in charge, Chief examiner.
Title of Graduate project guided: (2021)
Suction Mooring
2. **Assistant Professor |Sree Narayana Gurukulam College of Engg. Kadayiruppu ,Ernakulam, Kerala - September 2007 - March 2020.**

- Coordinator of NAAC, NBA, IE,ISTE,IEE

- Project guide, lab in charge, faculty adviser, department library in charge, group tutor.
 - Title of Graduate project guided: (2019)
1. Optimization of the Ultimate Strength of Friction Stir Welded AA 6063 -T6 Aluminum Alloy Using Response Surface Methodology (RSM).
 2. Post welds Heat treatment and Microstructure Evaluation of Friction Stir Welded 6063 Al Alloy.
 - Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations.
 - Took attendance, graded assignments and maintained student records to assist teachers with administrative tasks and maintain smooth daily operations.
 - Revised course objectives, course materials, instructional and assessment strategies for courses.
 - Performed research to serve as basis for academic writing for publication.
 3. **Lecturer in Marine Engineering, KMSME, CUSAT** Kochi, Kerala - February 2007 - September 2007.
 - Devoted special emphasis to punctuality and worked to maintain outstanding attendance record.
 - Participated in team-building activities to enhance working relationships.
 - Actively listened to customers' requests, confirming full understanding before addressing concerns.
 - Proved successful working within tight deadlines and fast-paced atmosphere.
 - Teaching learning and evaluation.
 4. **Lecturer in Mechanical Engg |College of Engineering. Chenganur,** Chenganur, Kerala - January 2007 - February 2007.
 - Proved successful working within tight deadlines and fast-paced atmosphere.
 - Devoted special emphasis to punctuality and worked to maintain outstanding attendance record.
 - Maintained excellent attendance record, consistently arriving to work on time.
 - Collaborated with team members to achieve target results.
 - Teaching Learning and evaluation.

Courses Done

VICT (Vertical Integration Course for Trainers) course completed.

The Course is approved by the Directorate General of Shipping and meets the requirements laid down in Regulation I/6, & Sections A-I/6, A-I/8, A-I/12 & B-I/6 of the STCW Convention, 1978, as amended. The Course is designed in accordance with IMO Model Course 6.09. The Candidate has also met the additional criterion specified in the STCW Convention specific to the issue of the Certificate

https://drive.google.com/file/d/1pEOy-8zqgdpi2_eNxJweMw5vGTiCqIY/-/view?usp=sharing

Funded Project

As part of my research work, got a Friction Stir Welding machine of Cost 20Lakhs, from Cochin University of Science and Technology, Under the guidance of Dr. M R Radhakrishna Panicker ,Principal SOE, CUSAT.

Theory and Practical Subjects Handled

| | |
|---|-----------------------------------|
| Production Engineering | Advanced manufacturing technology |
| Advanced Energy Engineering | Thermodynamics |
| Thermal Engineering | Heat and Mass Transfer |
| Mechanics of Machinery | Dynamics of Machinery |
| Machine Design and Drawing | Manufacturing Technology lab |
| Mechanical Measurements lab | Mechanical Systems lab |
| Heat Engines lab | Mechanical Engineering lab |
| Heat and Mass Transfer lab | Manufacturing Technology |
| Machine Tools and Digital Manufacturing | Metrology and Instrumentation |
| Metallurgy and Material Science | Basics of Mechanical Engineering |
| Introduction to Mechanical Engineering | Production Technology |

Seminar Conducted.

I have conducted a Seminar on **Ceramic Brake Discs for Cars** during 7th semester.

I have conducted a Seminar on **Under Water Welding** during 1st semester.M.Tech.

I have conducted a Seminar on **Re Manufacturing** during 2nd semester.M.Tech.

Subject Handled as a Resource Person.

Conduct a class on CNC Programming during the period of 22nd July 2019 to 31st July 2019 at SNGCE, Kadayiruppu.

Designed work

Brochure (Kunjali Marakkar School of Marine Engineering.) designed.(2021)

<https://drive.google.com/file/d/15xNfO7O3bgvf6Lh8Hk0osMObs3219ITj/view?usp=sharing>

FDP Attended .

Faculty Development Programme, A Route Map For Excellence, Engineering Pedagogy (AICTE Sponsored Programme) At M.A College Of Engg. Kothamanagalam. (2009).

Faculty Development Programme, Structural Design Using FEA. At Sree Narayana Gurukulam College Of Engg. Kadayiruppu. (2009)

Quality Improvement Programme, on Instructional Design and Delivery System for Engg. (Organised by NTTTR Chennai) At Tochi Institute Of Science And Technology, Arakunnam. (March 2010)

National conference on Mechanical Engg. Technology, theme Advanced Manufacturing Technology at SJ CET Palai. (2011).

STTP on Communication Skills “Pedagogical Innovations at MACE, Kothamangalam. (2011).

STTP on Research Methodology at LBS Institute for Technology for Women, Trivandrum (2013).

FDP on Computational Fluid Dynamics conducted during 6th July 2015 to 8th July 2015 at SNGCE, KADAYIRUPPU (2015)

STTP on Supply Chain Management at SNG College of Engg, Kochi (2017).

STTP on Mechano Biology at Cochin University of Science and Technology, Kochi (2018).

WORKSOPS Attended:

Two week ISTE Workshop on “ENGINEERING THERMODYNAMICS” conducted by Indian Institute of Technology. Bombay from 11th to 21st December 2012.

National Workshop on Intelligent Manufacturing at Musaliyar College of Engg and Technology, Pathanamthitta.(2012)

Two week ISTE Workshop on “ENGINEERING MECHANICS” conducted by Indian Institute of Technology. Bombay from 26th November to 6th December 2013.

Two week ISTE Workshop on “FLUID MECHANICS” conducted by Indian Institute of Technology. Kharagpur from 20th to 30th May 2014.

ONLINE WORKSOPS Attended:

LaTeX for Students,Engineers and Scientists an online course conducted from 24 September 2019 to 2 December 2019 by IIT Bombay.

Design of Experiments, An Engineering Perspective organized by Advanced Engineering Research & powered by hexacube India, on 25th .26th & 27th April 2020.

Make & Edit Video Classes an online training course conducted by Internal Quality Assurance Cell of Christ College, from 01st May 2020

One Week Online Short Term Training Program on **Recent Advances in Materials and Manufacturing: Part II**, Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam, 07th to 12th September, 2020 (1 week)

Webinar "**INLAND NAVIGATION AND ITS CHALLENGES**" conducted on **August 20th, 2020**. At SNGCE, KADAYIRUPPU.

MARINIZE ‘21, one day webinar series, on the theme “A DIGITAL PASSAGE: Progressive tools for Maritime research and development” (2021)

<https://drive.google.com/file/d/1dR4NIXKYAhKOh80vN9pF2Id6Y2otumFe/view?usp=sharing>

Co coordinator of online quiz committee(Azadi ka Amrith Maholsav 2021)

(https://drive.google.com/file/d/1dqnrwzgdFUQyv70mbI1Yv-2f_e1YGc5k/view?usp=sharing)

Paper Presented:

Pramod Ramakrishnan, "Friction Stirr Processing on 6063 Al Alloy": International Conference at BMC College Kollam (2012)

Pramod Ramakrishnan, " Microstructure and Mechanical properties of friction stir processed 6063 Al alloy ": National Conference at SNGCE (M'TiME 2012).

Pramod Ramakrishnan, " Improvement Of Overall Equipment Effectiveness of a Stamping Tool By Design Alterations": National Conference at SNGCE (M'TiME 2013).

Pramod Ramakrishnan , " Optimization Technique For The Analysis Of Process Parameters In Friction Stir Processing": National Conference at SNGCE (M'TiME 2014).

Pramod Ramakrishnan and Dr. M.R Radhakrishnan Panicker, ***“Influences Of Various Process Parameters On Friction Stir Processing Zone In Aluminium Alloys”*** *‘International Journal of Design And Manufacturing Technology (IJDMT), Volume 5, Issue 3, 2014, pp. 167-177, ISSN Print: 0976-6995, ISSN Online: 0976-7002 (2014)*

Pramod Ramakrishnan¹ , Ajin C Sajeevan² , M.R Radhakrishna Panicker³ , Biju N⁴ ***“Examining the Friction Stir Welded AA 6063 Aluminum Alloys' Strength and Quality Using Response Surface Methodology”***. International Journal for Multidisciplinary Research (IJFMR), E-ISSN: 2582-2160, Volume 6, Issue 4, July-August 2024.

Pramod Ramakrishnan¹ , Ajin C Sajeevan² , M.R Radhakrishna Panicker³ , Biju N⁴ ***“Effect of Process Parameters on Strength and quality of Friction stir welded AA 6063-T6 ALLOY”***. International Journal for Multidisciplinary Research (IJFMR), E-ISSN: 2582-2160, Volume 6, Issue 4, July-August 2024.

Linguistic proficiency

| | Speak | Read | Write |
|-----------|-------|------|-------|
| Malayalam | yes | yes | yes |
| Hindi | yes | yes | yes |
| English | yes | yes | yes |

Hobbies

Reading books and articles. Writing poems, stories .

Listening music, dancing, writing poems, anchoring, acting.

Cooking foods (Participant in Reality show- Kairali Tv kitchen magic 2016)

Participant in Reality show –Asianet ADI MONE BUZZER 2022.

My word

I swear upon god that what I have furnished here is true up to my knowledge.

Place : India

yours sincerely,

Date : 03/01/2025

PRAMOD RAMAKRISHNAN