

# CURRICULUM VITAE

Department of Mathematics  
University PG College (Campus)  
Palamuru University, Mahabubnagar.  
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## Dr. MADHU MOTAMARI

### CAREER OBJECTIVE:

*To utilize my skills and knowledge towards achieving organization goal. Teaching is my passion want live upto expectations of students and higher authorities*

### PROFESSIONAL ACHIVEMENTS:

#### PATENTS :

1. IOT BASED PORTBLE OXYGEN CONCENTRATOR.  
**Design No.: 428159-001, Date: 24-08-2024.**
2. METHOD FOR ENHANCING HEAT AND MASS TRANSFER IN CASSON NANOFLUID FLOW OVER A STREACTING SHEET.  
**Application No.: 202441078808 A, Date of filling Application: 17-10-2024**  
**Publication Date: 25-10-2024.**
3. MATHEMATICS ROLLER STAMP DEVICE FOR KIDS.

### EXPERIENCE:

1. Working as **Assistant Professor** (c) in Department of Mathematics, University College, Palamuru University, Mahabubnagar .Since 8/2013 to till to date.
2. Worked as a **Head Department of Mathematics** in University College, Palamuru University, Mahabubnagar (2018 to 2021).
3. Worked as a **Member, State wide Degree Syllabus Committee (TS Higher Education)** (2018 to 2021).
4. Worked as a **Member, University NAAC Committee, Palamuru University** (2018 to 2021).
5. Worked as a **Member, University News Letter Committee, Palamuru University** (2018 to 2021).

### QUALIFICATIONS:

#### ACADEMIC:

1. **Ph.D** from Mahatma Gandhi University, Nalgonda-508001. 2024.
2. **M.Sc (MCS)** from University college of Science, Osmania University, Hyderabad. 2012,**65.0%**
3. **B.Ed** From G.S.N college of Education,Achampet,MBNR.2013,**62.0%**
4. **BSc (MPC)** from Pragathi Degree College, Achampet. 2009, **61.33%**
5. **Intermediate (MPC)** from Triveni Junior College, Achampet, MBNR. 2005, **47.0%**
6. **SSC** from ZPHS(Boys) Amrabad, Mahabubnagar district. 2003, **59.0%**

## **ADDITIONAL:**

1. Qualified **AP.SET (First Attempt) 2012.**
2. Qualified **GATE (First Attempt) 2012.**

## **MEMBERSHIP:**

❖ **Life Member in APTSMS with L.M, No: 1372 and Month & Year March-2022.**

## **PAPER PUBLISHED:**

1. The Topic on **“Three-Dimensional Axisymmetric Stagnation-Point Flow in a Nanofluid with Nanoparticles via Moving Surface”** by Motamari Madhu and et. al in Journal of **Lettersvin High Energy Physics**, Vol. 2024, PP No. 779-788, 2024. **ISSN: 2632-2714.**
2. The Topic on **“Three Dimensional Casson Nanofluid Motion with Arrhenius Activation Energy, Thermal Radiation and Heat Source Effect via Stretching Sheet”** by Motamari Madhu and et. al in Journal of **Lettersvin High Energy Physics**, Vol. 2024, PP No. 123-131, 2024. **ISSN: 2632-2714.**
3. The Topic on **“Heat Source and Activation Energy effects on 3D Couple Stress Casson Fluid Motion via Stretching Sheet”** by K.Bharathi<sup>1</sup>, Maddileti Pasupula<sup>2</sup> and Motamari Madhu<sup>3</sup> in **Journal of Propulson Technology** Vol.45 No. 2(2024) PP No.4808-4823,2024. **ISSN: 1001-4055.**
4. The Topic on **“Viscous Dissipation and Joule Heating Effects on 3D Couple Stress Nanofluid Flowvia Stretching Sheet”** by Motamari Madhu and et. al in **International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING**, Vol.12(22s) PP No. 1446-1460, 2024. **ISSN: 2147-6799.** (www.ijisae.org).
5. The Topic on **“Melting Effect on Stagnation-point flow of casson fluid via Stretching/Shrinkig Sheet”** by Motamari Madhu<sup>1</sup>, Maddileti Pasupula<sup>2</sup> and Nainaru Tarakaramu<sup>3</sup>. in Journal of **Industrial Engineering Journal**, Vol.53, Issue 3, March-2024. **ISSN: 0970-2555.**
6. The Topic on **“Heat and Mass Transfer on 3D MHD Flow of Casson Nanofluid in Presence of Arrhenius Activation Energy”** by Motamari Madhu<sup>1</sup>, Maddileti Pasupula<sup>2</sup> in **Journal of Propulson Technology** Vol.44 No. 4 PP No.2900-2912,2023. **ISSN: 1001-4055.**
7. The Topic on **“Thermal Radiation on Three Dimensional Casson nanofluid Flow with Convective Boundary Layer via Stretching Sheet”** by Motamari Madhu<sup>1</sup>, Maddileti Pasupula<sup>2</sup> in **Journal of Propulson Technology** Vol.44 No. 6 PP No.676-689,2023. **ISSN: 1001-4055.**
8. The Topic on **“Advanced Family of Newton-Cotes Formula”** by Mahesh Chalpuri<sup>1\*</sup>, J.Sucharitha<sup>1</sup> and **M. Madhu<sup>2</sup>** in Journal of Informatics and Mathematical Science Vol.10,No.3, pp.429-442,2018. **ISSN 0975-5748 (Online); 0974-875X(Print)** Published by RGN Publications DOI:10.26713/jims.v10i3.773.

## **PAPER PRASENTATIONS:**

1. Presented a paper on **“Thermal Radiation on Three Dimensional Casson nanofluid Flow with Convective Boundary Layer via Stretching Sheet”** in International Conference on Computational Modelling in Science and Engineering (ICCMSE-2023) & XXXII Congress of APTSMS at Department of Mathematics, NIT, Warangal, T.S. During 28<sup>th</sup> - 30<sup>th</sup> October 2023.
2. Presented a paper on **“Three-Dimensional Axisymmetric Stagnation-Point Flow in a Nanofluid with Nanoparticles via Moving Surface”** in International Conference on Mathematical Modelling and Emerging Trends in Computing (ICMMETC-2023) at School of Technology, Woxsen University-Hyderabad. T.S. During 23<sup>rd</sup> – 25<sup>th</sup> June, 2023.

3. Presented a paper on **“Melting heat transfer Analysis of Stagnation-point flow of Non-Newtonian casson fluid to Stretching Sheet”** in the National Seminar on **“Mathematical Techniques and Applications (In Collaboration with APTSMS)”** at the Department of Mathematics, Mahatma Gandhi University, Nalgonda, T.S. During 3<sup>rd</sup> & 4<sup>th</sup>, March 2023.
4. Presented a paper on **“Effect of Melting heating condition on Stagnation point flow of casson fluid due to extendible/shrinkable sheet”** in the **XXXI Annual Congress of AMTSMS & International Conference on Relevancy Ancient Mathematics to the Current Digital Trends (ICRAMCDT-2022) (In Collaboration with APTSMS)** at the Department of Mathematics, National Sanskrit University, Tirupati, A.P. During 9<sup>th</sup> -11<sup>th</sup> December, 2022.
5. Presented a paper on **“Thermal radiation effects in MHD flow of jefferynano- fluid through impermeable surface with heat generation”** in the **International Conference on Mathematical Sciences and Emerging Applications in Technology (ICMSEAT-2022) (In Collaboration with APTSMS)** at the Department of Mathematics, Gitam University, Hyderabad, T.S. During 9<sup>th</sup> -11<sup>th</sup> September, 2022.
6. Presented a paper on **“Numerical study of MHD Boundary Layer flow of jeffery fluid past a stretching sheet in the presence of nanoparticles”** in the **XXIX Congress of APTSMS& National Conference on Mathematics and its Applications (NCMA-2020)** at the Department of Mathematics, Mahatma Gandhi University, Nalgonda, T.S. During 3<sup>rd</sup> - 5<sup>th</sup> December, 2020.

#### **FACULTY DEVELOPMENT PROGRAMME:**

1. Participated in **One week(online) Faculty Development Program on “The Scientific Computing Essential with MATLAB: A Comprehensive one-Week FDP”** Collaboratively organized by Anand International College of Engineering, Jaipur, INDIA, And MathTech Thinking Foundation, Fazilka, India from June 24-28, 2024.
2. Participated in **One week(online) Faculty Development Program on “Scientific Language”** organized by the Dept. Of Mathematics, School 1 of Basic Sciences, The Assam Kaziranga University, Jorhat, Assam, India From 26<sup>th</sup> April-2nd May, 2023.
3. Participated in 7 days Online (Webinar) **ONE WEEK TRAINING WORKSHOP on “Numerical Methods in Engineering and Physical Science with MATLAB”** organized by MathTech Thinking Foundation, India from June 4<sup>th</sup> – 10<sup>th</sup> 2022.
4. Participated in 6 days Online (Webinar) FDP on **“Applications of Mathematics in Engineering”** Conducted by Department of Mathematics KPRIET HELD FROM 20-07-2020 TO 25-07-2020.
5. Attended 12 days **Teacher Orientation Program (TOP)** for University faculty at University Auditorium, Palamuru University from 17.07.2016 to 30.07.2016.
6. Participated in 5 days Online (Webinar) FDP on **“Matlab Applications in Mathematics”** Organized by Department of Mathematics - BS&H, QIS College of Engineering and Technology, Ongole, A.P.- 523272. from 15.06.2020 to 19.06.2020.
7. Attended 1 day FDP by **Telangana Academy of Science, Hyderabad and Adarsh degree & P.G College** at Adarsh College, Mahabub nagar from 08.02.2016.
8. Attended 2 days **You & Me Program on Know your student** for University faculty at university Auditorium, Palamuru University from 27.11.2015 to 28.11.2015.
9. Attended 7 days FDP on **Research and Teaching Methods, Soft skills and Pedagogical Orientation** at University College, Palamuru University from 23.6.2015 to 31.06.2015.

## **NATIONAL SEMINARS, WEBINARS AND WORKSHOPS:**

- 1. Co-Convener of One Day National Workshop On Recent Advances in Computational Method for Fluid-Structure Interaction” at Palamuru University on 29-10-2024.**
2. Participated in **One Day National Seminar on “Mathematical Applications in Sciences”** Organized by Dept. of Mathematics and Statistics, MVS Govt. Arts & Sciences (Autonomous), Mahabubnagar-509001, Telangana, India from 13<sup>th</sup> March 2024.
3. Participated in **Five Days International Workshop on “Mathematical Modelling and Solution Procedures”** Organized by School of Technology, Woxen University, Hyderabad, Telangana. During 29<sup>th</sup> February - 04<sup>th</sup> March, 2024.
4. Participated in **A Three Days Virtual International Workshop on “Non-Linear System Including Differential and Difference Equations with Mathematical Softwares”** Organized by CVR College of Engineering, Vastunagar, Ibrahimatanam, RR Dist, T.S. From 15<sup>th</sup> - 17<sup>th</sup> February 2024.
5. Participated in **Five Days Workshop on “Advances in Fluid-Solid Interactions Using AI/ML with Special Reference to Numerical Weather Prediction and Smart Farming Using LoT(AFSI-2024)** Organized by Department of Mathematics & Computing, Indian Institute of Technology (ISM) Dhanbad. From 12<sup>th</sup> - 16 February 2024.
6. Participated in **A Three Days International Webinar on “Non-Linear Difference Equations & Fluid Dynamics Applications in Engineering Sciences”** Organized by CVR College of Engineering, Vastunagar, Ibrahimatanam, RR Dist, T.S. From 12<sup>th</sup> - 14<sup>th</sup> May 2022.
7. Attended 3 days XXIX Congress of APTSMS & National Conference on **“Mathematics and its Applications (NCMA-2020)”** at the Department of Mathematics, Mahatma Gandhi University, Nalgonda, T.S. During 3<sup>rd</sup> - 5<sup>th</sup> December, 2020.
8. **Convener of “One Day National Webinar on Mathematics” Organized by Department of Mathematics, University College, Palamuru University, TS. on 24-07-2020.**
9. Participated in a National Webinar on **“Differential Equations and Applications”** on 28.06.2020 Organized by Department of H&S (Department of Mathematics), NRITS, Secundrabad-500100.
10. Participated in a National Webinar on **“Optimization for a Function of Several Variables”** on 28<sup>th</sup> May, 2020 Conducted by Department of H&S, CMR Engineering College, Hyderabad.
11. **Convener of One Day National Workshop On “Recent Trends in Mathematics” at Palamuru University on 08-10-2018.**
12. Attended 2 days National Conference on **“RECENT ADVANCES OF MATHEMATICAL TECHNIQUES IN SCIENCE AND ENGINEERING”** at Dept. of Mathematics, Osmania University Hyderabad From 30-07-2017 to 31-07-2017.
13. Attended 2 days National Conference on **“Role of Mathematics in Real World Problems”** at Aurora’s Degree & P.G College, Chikkadpally, Hyderabad from 27.02.2015 to 28.02.2015.
14. Attended 2 days National Workshop on **“Mathematical Technology”** at Muffakhan Jah college of Engineering & Technology, Banjara Hills, Hyderabad from 27.06.2014 to 28.06.2014.

## **HOBBIES:**

- Playing Chess, Shuttle & Cricket
- Watching TV

**PERSONAL PROFILE:**

Fathers Name : Sri. MOTAMARI SWAMY DAS  
Date of Birth : 12-07-1988  
Caste : SC  
Marital Status : Married  
Languages Known (R/W/S) : Telugu & English  
Address for Communication : H.NO.1-3, KUMMARONI PALLY (VILLAGE)  
AMRABAD (MAN) NAGAR KURNOOL (DIST)  
PIN – 509201

**DECLARATION**

*I do hereby declare that above mentioned details are true according to my knowledge.*

Date:

**(MOTAMARI MADHU)**

Place: