# Dr. T. GOVINDA RAO

**Department**    : Basic Sciences and Humanities
**College**    : Seshadri Rao Gudlavalleru Engineering College

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## RESEARC PROFILES:

**ORCID ID**    : 0000-0002-6623-7911
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**Researcher ID**    : AAE-1624-2020
**Web of Science url** : https://www.webofscience.com/wos/author/record/2487826
**Google scholar url** : http://scholar.google.co.in/citations?user=BkrV1qoAAAAJ&hl=en
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## RESIDENTIAL ADDRESS:

Dr. T. Govinda Rao,
Flat No:SF-8,Block B & C,
Vani Sadan Appartments,
Gudivada – 521301.

## ACADEMIC QUALIFICATION: M.Sc., Ph.D

## ACADEMIC PROFILE:

- ➢ **Doctor of Philosophy (Ph.D)** in Mathematics, thesis entitled "Resonance Type Flows Due To Oscillations Of Symmetric Bodies In Fluids With Couple-Stresses" from NITW, Warangal, Telangana, on 15-05-2019.
- ➢ **Master of Science** in Applied Mathematics from IDEAL College of Arts and Science, Kakinada, Affiliated to Andhra University in 2007 with 67.23%
- ➢ **Bachelor of Science** in Mathematics, Physics and Chemistry from Sri Rama Degree College, Srikakulam, Affiliated to Andhra University in 2005 with 76.27%.
- ➢ **Intermediate** in Mathematics, Physics and Chemistry from Board of Intermediate Education , Andhra Pradesh in 2002 with 84%.
- ➢ **SSC** from Board of Secondary Education, Andhra Pradesh in 2000 with 73.5%.

## ACADEMIC REWARDS / ACHIEVEMENTS:
- ➢ Qualified in AP-SET 2019.
- ➢ Qualified in TS-SET 2018.
- ➢ College Second in M.Sc.

**PROFESSIONAL EXPERIENCE:**

| Designation | Institution | Period |
|---|---|---|
| Asst. Professor | Gudlavalleru Engineering College, Gudlavalleru | 01-09-2007 to Till date |
| Teaching Assistant | Gudlavalleru Engineering College, Gudlavalleru | 25-06-2007 to 31-08-2007 |

**SPECIALIZATION:** Fluid Dynamics

**RESEARCH PAPERS / BOOKS: 04**

**RECENT PUBLICATIONS/CONFERENCES:**

| International/ National Journals | International / National Conferences |
|---|---|
| 10 | 07 |

1. "A Novel Method for Software Effort Estimation using Exponential Regression as firing Inerval in fuzzy logic." Presented a paper in ACEEE 2011 and it was indexed in SPRINGER LCNS Digital Library, Volume 142, Part 1, 118-127, Dol:10.1007/978-3-642-19542-6-19.
2. "A Novel Method for Software Effort Estimation using Inverse Regression as firing Interval in fuzzy logic." Presented a paper in International Conference of Electronics and Computer Technology 2011 during 8-10th APR-2011 and it was indexed in IEEE xplore, ISBN: 978-1-4244-8678-6, page(s) : 177-182.
DOI: 10.1109/ICECTECH.2011.5941882
3. "Resonance Type Flow due to Rotary Oscillations of a Sphere in a Micropolar Fluid" *Procedia Engineering Journal, Vol. 127 (2015), PP-1323-1329.(* Elsevier) https://doi.org/10.1016/j.proeng.2015.11.490
4. "Resonance Type Flow due to Rectilinear Oscillations of a sphere in a Micropolar Fluid" *Journal of Physics Conference Series, Vol. 662 (2015).* doi10.1088/1742-6596/662/1/012015.*(* IOP Publishing)
5. "Couple-Stress Fluid Flow Due to Rectilinear Oscillations of a Circular Cylinder: Case of Resonance" Numerical Heat Transfer and Fluid Flow, Lecture Notes in Mechanical Engineering book series (LNME)*,* 567-574 *(2019).* https://doi.org/10.1007/978-981-13-1903-7_65.( Springer ).
6. "Longitudinal oscillations of a circular cylinder in a micro-polar fluid: case of resonance" Sadhana-Academy Proceedings in Engineering Sciences*, Vol. 44(3) (2019),* https://doi.org/10.1007/s12046-018-1004-x ( Springer ).
7. "Influence of Dufour and thermal radiation on unsteady MHD Walter's liquid model-B flow past an impulsively started infinite vertical plate embedded in a porous medium with chemical reaction, Hall and ion slip current" *SN Appl. Sci.* 2, 742 (2020). https://doi.org/10.1007/s42452-020-2484-y
8. "Influence of viscous dissipation and spanwise cosinusoidally fluctuating temperature on MHD free convective boundary layer flow with radiation absorption and chemical reaction" Heat transfer, Vol. 51(5), 4714-4740 (2022). https://doi.org/10.1002/htj.22520

9.  "Influence of Radiation Absorption and Thermal Diffusion on Laminar Flow of a Chemically Reacting Fluid Past a Porous Plate in Conducting Field with Rotation" Recent Advances in Applied Mathematics and Applications to the Dynamics of Fluid Flows. Lecture Notes in Mechanical Engineering, 77-87 (2022).
    https://doi.org/10.1007/978-981-19-1929-9_7
10. "Significance of Casson dissipative fluid and spanwise cosinusoidally fluctuating temperature on unsteady MHD free convective flow past a hot vertical permeable plate with radiation absorption and chemical reaction" Heat transfer, Vol. 51(8), 7725-7752 (2022).
    https://doi.org/10.1002/htj.22663

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1.  "A Novel Method for Software Effort Estimation using Exponential Regression as firing Inerval in fuzzy logic." Presented a paper in ACEEE 2011 held at Bangalore, India during $10^{th}$ to $11^{th}$ March 2011.
2.  "A Novel Method for Software Effort Estimation using Inverse Regression as firing Inerval in fuzzy logic." Presented a paper in International Conference of Electronics and Computer Technology 2011 during 8-$10^{th}$ APR-2011.
3.  "Resonance type flow due to Rectilinear Oscillations of a Circular Cylinder in a Micropolar Fluid" in International conference on "Fifty Ninth Congress of The Indian Society of Theoretical and Applied Mechanics ISTAM - 2014" held at Alliance College of Engineering and Design Alliance University, Bengaluru, from $17^{th}$ to $20^{th}$ December, 2014.
4.  "Resonance Type Flow due to Rectilinear Oscillations of a sphere in a Micropolar Fluid" in International conference on "Vibration Problems" held at Kakatiya University, Warangal from $18^{th}$ – $20^{th}$ February 2015.
5.  "Resonance Type Flow due to Rotary Oscillations of a Sphere in a Micropolar Fluid." in International conference on *"Computational Heat and Mass Transfer (ICCHMT-2015)"* held in the Dept. Of Mathematics, National Institute of Technology, Warangal, from $30^{th}$ November to $2^{nd}$ December, 2015.
6.  "Couple-Stress Fluid Flow Due to Rectilinear Oscillations of a Circular Cylinder: Case of Resonance." in International conference on *"Numerical Heat Transfer and Fluid Flow(NHTFF-2018)"* held in the Dept. Of Mathematics, National Institute of Technology, Warangal, from $19^{th}$ January to $21^{st}$ January, 2018.
7.  "Oscillatory Flow of a Circular Cylinder in a Couple-stress Fluid: Case of Resonance." in National conference on *"Computational Modeling of Fluid Dynamics Problems (CMFDP-2019)"* held in the Dept. Of Mathematics, National Institute of Technology, Warangal, from $18^{th}$ January to $20^{th}$ January, 2019.

## LIST OF WORKSHOPS ORGANIZED:

- ❖ "MATHEMATICAL TECHNIQUES" at Gudlavalleru Engineering College, Gudlavalleru on 1-12-2007
- ❖ 3-DAY WORKSHOP ON "SCOPE OF SCIENCES AND MATHS IN ENGINEERING" at Gudlavalleru Engineering College, Gudlavalleru from 11-08-2011 to 13-08-2011.
- ❖ APPLICATIONS OF MATHEMATICS IN ENGINEERING at Gudlavalleru Engineering College, Gudlavaleru from09-11-2013 to 10-11-2013
- ❖ "OPTIMIZATION TECHNIQUES AND ITS APPLICATIONS" at Gudlavalleru Engineering College, Gudlavaleru on13-09-2014.+
- ❖ "A Five - Day workshop on R-Programming for Statistical Computations", Part-I, organized by dept. of BS&H, Gudlavalleru Engineering College, Gudlavalleru, 24 – 25 June 2017.

# LIST OF WORKSHOPS /SEMINARS ATTENDED:

1. Four day workshop on "Numerical Methods with Matlab" (Theory & Hands on Experience) organized by BS&H dept., Gudlavalleru Engineering College, Gudlavalleru, from 25–28 June 2018.

2. "A Five - Day workshop on R-Programming for Statistical Computations", Part-I, organized by dept. of BS&H, Gudlavalleru Engineering College, Gudlavalleru, 24 – 25 June 2017.

3. Two day workshop on ""Multivariate Analysis using R-Software" Conducted by Gudlavalleru Engineering College, Gudlavalleru on $12^{th}$ & $13^{th}$ November, 2016.

4. One Day Workshop on "Fuzzy Mathematics in Engineering Control : An Example Oriented Treatise" Conducted by Gudlavalleru Engineering College, Gudlavalleru on 21st February, 2016

5. Attended one week Faculty Development Program on "MATLAB APPLICATIONS IN MECHANICAL ENGINEERING" organized by department of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru – 521356, during $07^{th}$ – $11^{th}$ September 2015.

6. Attended One Day workshop on "Optimization Techniques and Its Applications" on $13^{th}$ September, 2014 organized by Dept. of BS&H, Gudlavalleru Engg. College, Gudlavalleru.

7. Attended Two – Week ISTE workshop on "Fluid Mechanics" from $20^{th}$ to $30^{th}$ May 2014 organized by IIT, Kharagpur at Gudlavalleru Engineering College, Gudlavalleru as Remote centre. This workshop was held under the National Mission on Education through ICT (MHRD).

8. Attended Two Day workshop on "Recent Trends in Fluid Mechanics and Numerical Techniques" from $19^{th}$ to $20^{th}$ January 2014 organized by Dept. of BS&H, Sri Vasavi Institute of Engg. & Technology, Nandamuru, Pedana.

9. Attended Two – Week ISTE workshop on "Signals & Systems" from $2^{nd}$ to $12^{th}$ January 2014 organized by IIT, Kharagpur at Gudlavalleru Engineering College, Gudlavalleru as Remote centre. This workshop was held under the National Mission on Education through ICT (MHRD).

10. Attended National workshop on "Applications of Ordinary and Partial Differential Equations in Engineering" on 28the December 2013 organized by the Dept. of Mathematics, Vasavi College of Engineering, Hyderabad.

11. Attended State Level Two Day Workshop on "Applications of Mathematics in Engineering" (As per JNTUK R13 - Syllabi) from $09^{th}$ & $10^{th}$ November 2013 Organized by Gudlavalleru Engineering College, Gudlavalleru.

12. Attended One Week workshop on "Training Teachers for Excellence" from $29^{th}$ April to $4^{th}$ May 2013 organized by Dr. B.G.Barki, Forrmer Director, NITTTR, Chennai, Gudlavalleru Engg. College, Gudlavalleru.

13. Attended National Conference on "Recent Advances and Applications of Mathematical Sciences to Engineering (RAAME)" from $20^{th}$ to $22^{nd}$ December 2012 organized by Dept. of BS&H, VNR Vignana Jyothi Institute of Engg. & Technology (Autonomous), Hyderabad.

14. Attended a conference on "New Vistas in Computational Fluid Dynamics in Engineering" from $27^{th}$ to $29^{th}$ January 2012 organized by NIT, Warangal.

15. Attended Second Annual meet for Prof. S.Minakshi Sundaram Memorial Society & Seminar on "Current Trends in Mathematical Modelling" on $22^{nd}$ October 2011 organized by PVPSIT, Vijayawada.

16. Attended National Seminar on "Discrete Mathematics and Its Applications (DMAA-11) from 10<sup>th</sup> to 12<sup>th</sup> February, 2011 organized by Dept. of Mathematics, Gayatri Vidya Parishad College of Engg. For Women, Visakhapatnam.
17. Attended a Two Day National workshop on "Mathematical Techniques and Applications in Engineering Problems" from 6<sup>th</sup> & 7<sup>th</sup> November 2009, organized by GMR Institute of Technology, Rajam.
18. Attended for successfully completing the train the trainer program on 8<sup>th</sup> April 2009 organized by Sutherland's Language Lab Initiative.
19. Attended 6 day Faculty Enablement Program "Aptitude" organized by IEG – JKC & Globarena Technologies Pvt. Ltd. From 26<sup>th</sup> November 2007 to December 2007.

**CERTIFICATIONS:** 05 (NPTEL Online Certification Courses )

1  Certified in the Course "Numerical methods" conducted by Indian Institute of Technology, Roorkee, in association with NPTEL and scored 70% with Elite.
2  Certified in the Course "Graph Theory" conducted by Indian Institute of Technology, Roorkee, in association with NPTEL and scored 71% with Elite.
3  Certified in the Course "Introduction to R Software" conducted by Indian Institute of Technology, Roorkee, in association with NPTEL and scored 81% with Elite.
4  Certified in the Course "Multivariable Calculus" conducted by Indian Institute of Technology, Roorkee, in association with NPTEL and scored 77% with Elite.
5  Certified in the Course "Calculus of One Real Variable" conducted by Indian Institute of Technology, Roorkee, in association with NPTEL and scored 83% with Elite.

**MEMBERSHIP IN PROFESSIONAL BODIES:** APSMS (Life Member),
ISTAM (Life Member).


( GOVINDARAO TANGUDU )