**RESUME**

**C. UMA DEVI**
H.NO. 3-322/1
Road No.5,
Tirumala hills,
Meerpet,
Hyderabad.

EMAIL**:** **uma140276@gmail.com**
MOBILE: 9848289961

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## Experience

- 24 yrs of hands on experience in teaching Engineering graduates.
- Worked as Assistant Professor of Mathematics in J.P.N College of Engineering, Mahabub nagar from 1997-2003 (6 yrs).
- Worked as Assistant Professor of Mathematics in TKR College of Engineering, Hyderabad from 2003-2008 (5 yrs).
- Worked as Associate Professor and Head of the department of Mathematics in TKR College of Engineering, Hyderabad from 2003-2008 (5 yrs).
- Working as a Professor of Mathematics in TKR College of Engg. & Tech., Hyderabad, since 2008 to till date (8 yrs).

## Academic Profile

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|---|---|---|
| **Ph.D** (2017) | **JNTUA, Anantapuramu.** | |
| M. Sc (Mathematics) | **Osmania University Campus**, | **82**% |
| (1994-1996) | Hyderabad | |
| B. Sc (MPC) | **Osmania University** | **80%** |
| (1991-1994) | | |
| Intermediate | **Board of Intermediate Education** | **65%** |
| (1989-1991) | | |
| SSC(1989) | **Board of Secondary Education** | **70%** |

## Achievements

- Qualified APSET.
- Awarded as Best Teacher in 2014 and 2019.
- Appointed as a Chief examiner, Evaluator, moderator for various universities and autonomous bodies**.**
- Member, Board of studies, TKR College of Engineering (Autonomous).

## Research Publications

- C. Uma Devi, "A mathematical model of Herschel- bulkley fluid through an overlapping stenosis", IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 10, Issue 2 Ver. II (Mar-Apr. 2014), PP 41-46.

- C. Uma Devi, "A mathematical model of Herschel-bulkley fluid through an inclined tube of uniform cross-section with overlapping stenosis", International Journal of Mathematical Archive-6(4), 2015, 71-77, ISSN 2229 – 5046.

- C. Uma Devi , "Flow of micropolar fluid through a tube with overlapping stenosis", International Journal of Scientific and Innovative Mathematical Research (IJSIMR) Volume 3, Special Issue 1, July 2015, PP 194-201, ISSN 2347-307X .

- C. Uma Devi, "Effects of stenosis and post stenotic dilatation on jeffrey fluid flow in arteries", International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308, pp 195-201.

- C. Uma Devi, "A mathematical model for micropolar fluid flow through an artery with the effect of stenosis and post stenotic dilatation", Applications and applied mathematics, Vol. 11, Issue 2 (December 2016), pp. 680 – 692, ISSN: 1932-9466.

- C. Uma Devi, "Effect of magnetic field on Herschel-bulkley fluid through multiple stenosis", Malaya J. Mat. 3(1),(2015) 335–345, ISSN: 2319-3786.

- C. Uma Devi, "Effect of stenosis and post stenotic dilatation on jeffrey fluid flow in arteries", IJRET, Vol. 04, Issue-01, (2015), eISSN: 2319-1163.

- C. Uma Devi, “Effect of magnetic field on jeffrey fluid through an overlapping stenosis”, Open Journal of Applied & Theoretical Mathematics (OJATM) Vol. 2, No. 4, December 2016, pp. 780-794. ISSN: 2455-7102.

- C. Uma Devi, “Nanofluid flow in an inclined artery with overlapping stenosis and permeable walls”, IJSSR Vol. 7, Issue- 4, 2018, pp.1601-1616. ISSN: 22790543.

- C. Uma Devi, “Entropy generation analysis of peristaltic flow of jeffrey nanofluid in a tube with permeable walls”, IJRAT, Vol. 6, ISSUE 11, 2018, pp.3103-3112. ISSN: 23219637.

- C. Uma Devi, “Flow of blood mixed with nano particles in an inclined overlapping stenosed artery with magnetic field”, Case studies in thermal engineering, Vol. 25, 2021. ISSN: 2214157X.(SCI JOURNAL)

- C. Uma Devi, “effects of stenosis and dilatation on flow of mixed with suspended nanoparticles a study using homotopy technique”, International journal of applied mechanics and engineering, Vol. 26, 2021. ISSN: 23539003.

- C. Uma Devi, “Mathematical modelling of convective heat and mass transfer of a rotating nano fluid bounded by stretching and stationary walls in a vertical conduit”, International journal of applied mechanics and engineering, Vol. 25, 2021. ISSN: 23539003.

- C. Uma Devi, “Investigation of jeffrey nanofluid through an inclined tube with permeable walls”, Journal of xian university of architecture and technology, Vol. 12, 2020. ISSN: 10067930

- C. Uma Devi, “Peristaltic transport of rabinowitsch fluidvin an inclined tube”, Journal of xian university of architecture and technology, Vol. 12, 2020. ISSN: 10067930

- C. Uma Devi, “Effects of magnetic field on blood flow with suspended copper nanoparticles through an artery with overlapping stenosis”, International journal of thermo fluid science and technology, 2021. ISSN: 27069885

- C. Uma Devi, “Blood flow of micropolar fluid through an artery having multiple stenosis with suspension of nanoparticles”, Alochana chakra journal, 2020. ISSN: 22313990

- C. Uma Devi, “Nanoparticle analysis of Jeffrey fluid flow in an inclined tube with overlapping stenosis”, Aip conference proceedings, 2020. ISSN: 0094243X

## Workshops and Conferences:

- C. Uma Devi, Presented a paper on “Flow of micropolar fluid through a tube with an overlapping stenosis” in ICMS-2015, SV University, Tirupathi, 13/07/2015-15/07/2015.

- C. Uma Devi, presented a paper on “Effect of magnetic field on jeffrey fluid through an overlapping stenosis” in International Conference on Mathematical Sciences & Engineering Applications (ICMSEA) – 2016, BITS, VIZAG. 23/12/2016-25/12/2016.

- C. Uma Devi, presented a paper on “A mathematical model for micropolar fluid flow through an artery with the effect of stenosis and post stenotic dilatation”,in NSRTCMS-2015, SK University, Anantapuramu, 28/11/2015-29/11/2015.

- C. Uma Devi, presented a paper on “Study of jeffrey fluid flow in an inclined tube with overlapping stenosis”,in NCERPTAM-2017, Sri Padmavathi Mahila Visvavidyalaym, Tirupati. 29/08/2017-30/08/2017.

- C. Uma Devi, presented a paper on “Effect of multiple stenoses on jeffrey fluid in a uniform circular tube”,in MRITICISTH&M-2018, Malla Reddy Institute of Technology, Hyderabad. 19/01/2018-20/01/2018.

- C. Uma Devi, Participated in One Week Faculty Development Programme on “Outcome based education”, organized by the E&ICT Academy, NIT, Warangal at TKRCET, Hyderabad.13/11/2018-18/11/2018.

- C. Uma Devi, Participated in the workshop on “Physics of fluids, methods, and applications”, held at school of technology, GITAM, Hyderabad.01/03/2019-02/03/2019.

- C. Uma Devi, Participated One Week Faculty Development Programme on “Modern teaching trends in scientific and technical education” at TKRCET, Hyderabad.30/06/2014-06/07/2014.

## Books published

- Published text book on **MATHEMATICAL METHODS** by BHI publications, 2021.

## Paper review

- Reviewed papers in Journal of scientific research and reports.

## Strengths

- Good problem solving capabilities.
- Quick learner.
- Time management.
- Multi tasking.
- Data collection and research.
- Easily adaptable to new environment.
- Smart working.

## Personal Details

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| Fathers name | : | Sri C. Shankarappa |
| D.O.B | : | 14-02-1974. |
| Sex | : | Female. |
| Marital Status | : | Married. |
| Nationality | : | Indian. |
| Languages known | : | Telugu, English, Hindi and Kannada. |
| Hobbies | : | Solving new problems, learning new things |