**CURRICULUM VITAE**

**Name (in Block Letters) :** **Dr. LOKA PAVANI**

**Place of work : University College for Women , Koti**

**Department & College : Mathematics**

**Date of appointment : 7/9/2013**

**Current Designation : Assistant Professor**

**Address for correspondence) : Department of Mathematics , UCW , Koti**

 **Osmania University - 500095**

**Contact Number : 9885190547**

**Email ID : drlokapavani@osmania.ac.in**

**Academic Qualifications**

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| **Examination** | **Subject** | **Name of the Board / University** | **Year of Passing** | **Percentage of marks obtained** | **Division / Class / Grade** |
| High School / Matric | All Subjects | SSC | 1987 | 81% |  First Division  |
| Intermediate | MPC | BIE | 1989 | 85% | First Division |
| Under Graduation | B.Sc (MPC) | Kakatiya University | 1992 | 95% | First Division |
| Post-Graduation | M.Sc (Maths) | Kakatiya University | 1994 | 97% | First Division |

**Research Degree (s)**

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| **Degrees** | **Title** | **Date and year of award** | **University** |
| Ph.D | Numerical Solutions of singular Perturbation Problems | 22/01/2010 | NIT , Warangal |

**Appointments held prior to joining the Osmania University service**

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| **Designation** | **Name of the Employer** | **Date of** |
| Joining | Leaving |
| Lecturer(adhoc) | Kakatiya University | 1994 | 1998 |
| Assistant Professor  | Vaagdevi College of Engineering ,JNTU | 1998 | 2000 |
| Assistant Professor | CBIT , Osmania University | 2000 | 2013 |

**Teaching experience**

**P.G. level :** 10 years

**U.G. level :** 27 years

**Research Experience excluding years**

**spent in pursuing M.Phil. / Ph. D :** 10 years

**Fields of Specialization under the Subject / Discipline:** NUMERICAL ANALYSIS

**Orientation / Refresher Courses attended at Academic Staff Colleges**

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| S.No | Programme | Duration | Organised by  |
| 1 | Refresher Course in Information Technology(I.D) | 3 Weeks( 4.07.2012 to 25.07.2012 ) | UGC-Academic Staff College ,Osmania University ,Hyderabad |
| 2 | 65th Orientation Course | 4 weeks( 20.05.2010 to 16.06.2010 ) | UGC- Academic Staff College, University of Hyderabad |
| 3 | Leadership Development Program- ‘Management Insights for Engineering Faculty for Academic Leadership, MIEFAL-08’ | 2 Weeks(30.06.2008 to 12.07.2008) | MHRD, GOI, New Delhi and Conducted by CMS – NIT, Warangal |
| 4 | STTP on “Mathematical Modeling & Numerical Techniques (MMNT)” | 1 Week( 17.01.2011 to 21.01 2011 ) | Department of Mathematics NIT, Warangal |
| 5 | STTP on “Advanced Computational Techniques” ACT 2009 | 1 Week( 27.01.2009 to 31.01.2009 ) | Department of Mathematics NIT, Warangal |
| 6 | STTP on ‘ Application Oriented Mathematics Teaching Methodology’ | 1 Week( 20.06.2005 to 24.06.2005 ) | Department of Mathematics NIT, Warangal |
| 7 | In-House Training Programme Faculty development programme | 1 Week( 24.11.2003 to 29.11.2003 ) | AEC,CBIT |
| 8 | UGC Sponsored Orientation Course | 4 Weeks(02.12.2015 to 29.12.2015) | UGC-HRDC MANUU, Hyderabad |
| 9 | STTP on Contemporary Approaches of Applied Mathematics in Science and Engineering | 1 Week(11.05.2015 to 15.05.2015) | Department of Mathematics, NIT, Warngal |
| 10 | Refresher Course in Information Technology(I.D) | 3 Weeks( 4.07.2012 to 25.07.2012 ) | UGC-Academic Staff College ,Osmania University ,Hyderabad |
| 11 | STTP on “Mathematical Modeling & Numerical Techniques (MMNT)” | 1 Week( 17.01.2011 to 21.01 2011 ) | Department of Mathematics NIT, Warangal |

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| 12 | One week workshop on Mathematical Modelling in Engineering MME 2013 | 1 Week(2.12.2013 to 6.12.2013) | Department of Mathematics NIT, Warangal |
| 13 | UGC sponsored Refresher course in Mathematics | 3 Weeks(30.01.2017 to 18.02.2017) | UGC-HRDC, OU, Hyderabad |

Dr Loka Pavani , Department of Mathematics and Statistics UCW , Koti attended the following Conferences/workshops /FDP/Webinars during the academic year 2020-21

1. Attended 3 day online workshop on “Online course, design , development and delivery” organized by HRDC , University of Hyderabad , during May 26-28 ,2020.
2. Attended two day National Webinar on “ Tools to manage Health and immune system during covid-19 crisis” organized by Department of Chemistry ,UCW ,Koti during 18-19 June 2020.
3. Organised and attended National webinar on Mathematics and Statistics conducted by Department of Mathematics and Statistics ,UCW , Koti on 24th June 2020.
4. Attended 7 day National Webinar (FDP) in “ Online teaching ,learning and assessment in Higher Education” organized by Examination branch , UCW ,Koti from 25th June to 1st July 2020.
5. Attended 2 day online FDP on “Application of Mathematics in Engineering” organized by Department of Mathematics and Humanities , MGIT , Hyderabad during 3rd and 4th July 2020.
6. Attended 1 day online National seminar on “Application of Number theory and cryptography” organized by Department of Mathematics and Humanities , CBIT , Hyderabad on 8th July 2020.
7. Attended 7 day National Webinar (FDP) in “ Advanced concepts for developing MOOCs Online teaching ,learning and assessment” organized by Department of Chemistry ,UCW ,Koti from 27th July to 2nd August 2020.
8. Attended 1 week STTP in “Differential Equations -Solutions , techniques and applications” organized by Department of Mathematics , IIT ,Guwahati during 7th September to 12th September 2020.
9. Organised and attended 1 week FDP on “ Applied Numerical Methods” in the Department of Mathematics and Statistics ,UCW , Koti from 28th September to 3rd October 2020.
10. Delivered expert lecture on “ Numerical Solutions of Initial Value Problems” at 1 week FDP on “ Applied Numerical Methods” in the Department of Mathematics and Statistics ,UCW , Koti on 2nd October 2020.
11. Presented a paper on “Exponentially fitted higher order finite difference method for functional differential equations” in the XXIX congress of APTSMS and National Conference of Mathematics and its Applications (NCMA2020) held at Department of Mathematics , Mahatma Gandhi University , Nalgonda ,TS

**Administrative Responsibilities held in the Department & Institution**

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| **Academic Year** | **Administrative Position Held** |
| 2015-2016 | Hostel Warden ,UCW , Koti |
| 2016-2019 | Training and Placement Officer |
| 2016-2018 | Head , Department of Mathematics and Statistics |
| 2019-2021 | Head , Department of Computer Science |
| 2021- till date  | IQAC Coordinator |

 **Activities conducted Training and Placement Officer, 2016 to 2018**

* Conducted training programs for UG students on communication skills and interview preparation
* Conducted on campus drives for companies like, Genpact, Delloite, Verizon, ETV Bharath, Chaitanya Techno Schools and Wipro.
* Facilitated off-campus drives for Akash Institutions, Avra Technologies, Novartis, TCS, etc.
* Encouraged and motivated more than 100 students to register for TASK-Telangana Academy for Skill and Knowledge for the first time in UCW.
* With the support of the TASK, the following programs have been organized :
	+ Communication Skills
	+ Mahindra Pride 40 hour Training program(1 Week)
	+ IT MOOCS – Aptitude and Reasoning
* More than 100 students have been offered placements

**Paper Presentations in seminars, conferences**

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| --- | --- | --- | --- | --- |
| S.No | Title of the Paper Presented | Title of Conference | Organised by | Whether International/National/State/regional/College or University level |
| 1 | Initial value method for General Singular Perturbation Problems | International Conference on Vibration Problems, Feb 18-20, 2015 | Department of Mathematics, Kakathiya University, Warangal, Telangana | International Conference |
| 2 | New initial value method for General Singular Perturbation Problems | XXIII Congress of APSMS and National Conference on MathematicsDec 12-14, 2014 | Dept of Sciences & Humanities, Vignan’s University | National Conference |

**Research papers (in UGC recognized and Peer reviewed Journals)**

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| --- | --- | --- | --- | --- |
| S.NO | TITLE WITH PAGE NOS | JOURNALS | ISSN/ISBN/NO | YEAR |
| 1 | Numerical Integration of General Singular Perturbation Problems -Technique 1’ | International Journal of Mathematical Sciences ,Technology and Humanities,October 2011pp 90-110 | ISSN:2249-5460. | 2011 |
| 2 | Numerical Asymptotic Method for Singular Perturbation Problems. | , International Journal of Mathematical Sciences and Applications, May-2011,Volume 1,Number 2,pp. 607-623. | ISSN: 2230-9888. | 2011 |
| 3 | Numerical Integration of General Singular Perturbation Problems -Technique 2’  | International Journal of Mathematical Sciences ,Technology and Humanities,October -2011, pp.153-73.ISSN:2249-5460. | ISSN:2249-5460. | 2011 |
| 4 | Initial Value Method for General Singular Perturbation Problems | Journal of PhysicsConference series 662(2015)011001 |  | 2015 |
| 5 | Initial Value Method ExtendedFor Singular Perturbation Problems | American Journal Of Numerical Analysis | ISSN:2372-2126 | 2015 |

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| S.NO | TITLE WITH PAGE NOS | JOURNALS | ISSN/ISBN/NO | YEAR |
| 6 | Initial Value Method for General Singular Perturbation Problems | Journal of PhysicsConference series 662(2015)011001 |  | 2015 |
| 7 | Initial Value Method ExtendedFor Singular Perturbation Problems | American Journal Of Numerical Analysis | ISSN:2372-2126 | 2015 |

**Research Projects**

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| --- | --- | --- | --- | --- |
| **Year** | **Title of the Project** | **Sponsoring Agency** | **Amount Sanctioned** | **Year of Completion** |
| 2015 | Delay Differential Equation Solver | NBHM | 3 lakhs | 2019 |

**Date: 29/09/2021**

**Place: Hyderabad Signature**

 **Dr Loka Pavani**