

PROFILE

Staff Name : Dr. V. Indira
Designation/Department : Asst. Professor, Mathematics.



Qualification details

Qualification	College/University	Area of Specialization	Year of completion
B. Sc (Mathematics)	Kandasamy Naidu College for Women	-	1992
M. Sc (Mathematics)	Kandasamy Naidu College for Women	-	1994
M. Phil (Mathematics)	Madurai Kamaraj University	-	2002
Ph.D	Karpagam University	Statistical applications in fault diagnosis	2013

Experience: (D.O.J of this Institution: 27.02.2014 A.N.)

- In Engineering Colleges : 12 Years
- In Arts and Science Colleges : 03 Years
- In schools : 03 Years

INTERNATIONAL JOURNALS

1. **Dr. V. Indira** et al., “Minimum Sample Size Determination Of Vibration Signals In Machine Learning Approach To Fault Diagnosis Using Power Analysis” Expert Systems with Applications, Elsevier publications, 37(12), 8650–8658, December 2010. ISSN 0957-4174.
2. **Dr. V. Indira** et al., “A Method For Calculation Of Optimum Data Size And Bin Size Of Histogram Features In Fault Diagnosis Of Mono-Block Centrifugal Pump”, Expert Systems with Applications, Elsevier publications, Vol. 38, Issue 6, 7708–7717, 2011. ISSN: 0957-4174
3. **Dr. V. Indira** et al., “A Method For Minimum Sample Size Calculation For A Classification Problem In Fault Diagnosis Of Centrifugal Pump”, International Journal of Statistics and Systems, Research India Publications, 5(2), 183–202, 2010. ISSN 0973-2675
4. **Dr. V. Indira** et al., “Determination Of Sample Size Using Power Analysis And Optimum Bin Size Of Histogram Features” Int. J. Data Analysis Techniques and Strategies, 3(1) , 21-41, 2011, Print ISSN: 1755-8050 Online ISSN: 1755-8069
5. **Dr. V. Indira** et al., Use of histogram features for decision tree-based fault diagnosis of monoblock centrifugal pump, Int. J. of Granular Computing, Rough Sets and Intelligent , Systems, Inderscience Publishers, Volume 2, No. 1, 23-36, 2011
6. **Dr. V. Indira** et al., “Sample Size Determination For Classification Of EEG Signals Using Power Analysis In Machine Learning Approach”, International Journal of Advanced Research in Engineering and Technology (IJARET), IAEME, ISSN 0976 – 6480(Print), ISSN 0976 – 6499(Online) Volume 3, Number 1, January - June (2012),

7. **Dr. V. Indira** et al., Fault diagnosis of monoblock centrifugal pump using SVM, Engineering Science and Technology, an International Journal, Elsevier publications, Volume 17, Issue 3, September 2014, Pages 152–157.
8. **Dr. V. Indira** et al., “Determination of minimum sample size for fault diagnosis of automobile hydraulic brake system using power analysis”, Engineering Science and Technology, an International Journal, Elsevier publications, Volume 18, Issue 1, March 2015, Pages 59–69

INTERNATIONAL CONFERENCES

1. **Dr. V. Indira** et al., “Minimum Sample Size Determination In Machine Learning Approach To Fault Diagnosis Using Power Analysis And Entropy Measures Of Vibration Signals”, Advances in Mechanical and Building Sciences in the 3rd Millennium, VIT University, Vellore, Tamil Nadu, India, December 14-16, 2009.
2. **Dr. V. Indira** et al., “Optimum Data Size For Fault Diagnosis Of Bearing” Advances in Mechanical and Building Sciences in the 3rd Millennium, VIT University, Vellore, Tamil Nadu, India, December 14-16, 2009.
3. **Dr. V. Indira** et al., “ Optimum Sample Size For Machine Learning Approach To Fault Diagnosis Of Automobile Hydraulic Break System”, Systems, Methodologies, Automation and Research Trends” SMVEC, Pudhucherry, India, 12.12.2012 to 14.12.2012.
4. **Dr. V. Indira** et al., “ Sample Size Determination for the Auditory System with Auditory Brainstem Response using Power Analysis”, II international Conference on Simulation Modelling and Analysis-COSMA-2011, Amrita School of Engineering, Coimbatore, 14-16, December-2011.

NATIONAL CONFERENCES

1. **Dr. V. Indira** et al., “Application of Power Analysis in Determination of Minimum Sample Size for Fault Diagnosis of a Centrifugal Pump”, I Annual Research Congress-KUARC-2009, 07.12.2009 to 10.12.2009.
2. **Dr. V. Indira** et al., “Optimum Data Size For Fault Diagnosis Of Monoblock Centrifugal Pump”, II Annual Research Congress-KUARC-2010, 08.12.2010 to 11.12.2010.
3. **Dr. V. Indira** et al., “Sample Size Determination For The Auditory System With Auditory Brainstem Response Using Power Analysis” III Annual Research Congress-KUARC-2011, 09.12.2011 to 10.12.2011.

BOOKS PUBLISHED

1. **Dr. V. Indira**, T. Gayathri, S. Parimala, G.Manjula, “Engineering Mathematics I”, Aagash Nekaa Publications, 2012.
2. **Dr. V. Indira**, T.Gayathri, S.Parimala, “Engineering Mathematics I”, Aagash Nekaa Publications, 2013.

3. **Dr. V. Indira**, T. Gayathri, S. Parimala, “Engineering Mathematics II”, Aagash Neka Publications, 2014.
4. **Dr. V. Indira**, “Mathematical Foundation of Computer Science”, Study Material for DDE – Pondicherry University, Pudhucherry.

JUDGES AND JURIES DETAILS / GUEST LECTURE GIVEN

Amalorpavam Higher Secondary School, Puducherry.	As a Judge for a Science Exhibition conducted by “PuthiaThalaimurai” on 06.07.2012.
Sri Rama Krishna Matriculation Hr. Sec. School	Career guidance and motivation for plus two students, 30, December, 2013
Elsevier Publications	Reviewed Journals
Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Cambridge online journals.	Reviewed Journals

CONFERENCE/SEMINARS/SDP/FDP/WORKSHOP ATTENDED

1. Dr. V.Indira, “SDP on Probability and Queuing Theory”, 21.11.2005-03.12.2005 (13 days), Mailam Engineering College, puducherry .
2. Dr. V. Indira, “SDP on High Impact Teaching Skills”, 20.10.2009 to 24.10.2009 (5 days), SMVEC at Puducherry.
3. Dr. V. Indira, “SDP on Alan Turing Centenary Year Workshop On Advanced Topics In Theoretical Computer Science”, 16.11.2012-18.11.2012(3 Days), Anna University, Chennai.
4. Dr. V. Indira, “Work Shop on NBA-New Outcome Based Accreditation”29.04.2013(1Day), R.M.K. Engineering College, Chennai.
5. Dr. V. Indira, “National Vocational Education Qualification Framework Workshop”, 25.08.2013, Podicherry Engineering College, pudhucherry.
6. Dr. V. Indira, “Workshop on Advanced Teaching Techniques” 17.08.2015 to19.08.2015 (3 days), Perunthalaivar Kamarajar Arts College, Puducherry.
7. Dr. V. Indira, National Seminar on Quality Enhancement in Teaching, Research and Extension in Higher Learning Institutions-Problems and Prospects. 20.08.2015 to 21.08.2015 (2 days), Kanchimamunivar centre for P.G. Studies, Puducherry.
8. Dr. V. Indira, UGC Sponsored 114th Orientation Programme, 15.09.2015 to 12.10.2015 (28 Days), HRDC-Pondicherry University, Puducherry.
9. Dr. V. Indira, First state level NAAC awareness workshop conducted by State level Quality Assurance Cell, 10.01.2017 to 11.01.2017(2 Days), Bharathidhasan Government College for Women(Autonomous), Puducherry.