

Name : Dr.Mrs.P. Velmani M.C.A.,M.Phil.,Ph.D.
Designation : Assistant Professor
Date of Birth : 04.06.1968
Date of Appointment : 13.06.2007
Address : Department of Computer science,
The M.D.T. Hindu College,
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Teaching Experience:

Sri Sarada College for Women (SF), Tirunelveli.	06-07-1992 to 13-09-1994
G.Venkataswamy Naidu College (SF), Kovilpatti.	14-09-1994 to 31-05-2007
The M.D.T. Hindu College Tirunelveli	Since 13-06-2007

Book Published

- * Computers Basics to Advancements, 2016, Chess Educational Publishers, Chennai, Kerela, ISBN Number: 978 81 9316 702 1
- * Introduction to Computers by P.Velmani, V.Lakshmi Praba, Muthuram Publications, 2002

Book Prescribed in M.S.University syllabus

- * Appendix - AZ41 (pp. 595,596), Manonmaniam Sundaranar University, Tirunelveli, Bachelor of Business Administration Syllabi and scheme of examination for those who joined the Academic year 2012 – 2013, Semester III., Allied – II – (1) Fundamentals of Computer for Business
- * MSU/2016-17/UG-Colleges/Part-III (Business Administration) Semester-IV/ Ppr.no.22 /Allied-IV COMPUTER APPLICATIONS IN BUSINESS (pg:11,12)

Reference Book: Introduction to Computers by P.Velmani, V.Lakshmi Praba, Muthuram Publications, 2002

- * Prescribed **Text book** for B.Sc Non-major Computer – 2016-17 revised syllabus

Page 13 of 25 MSU/2016-17/UG-Colleges/Part-IV (B.Sc.Computer Science)/Semester-III/
Ppr.no.21 (A) / Non-Major Elective – I (A) Introduction to Computers

Course material prepared

* B.C.A. correspondence course, 2016-17 – M.S.University, Tirunelveli – Title of the paper:

Introduction to computers

Minor Research Project Completed – 1

*Rs. 93,016 received for Minor research project entitled “Characteristics of sensor network applications (for an industrial scenario) – a study, UGC Reference No:F: MRP-

3922/11(MRP/UGC-SERO) August 2012- 2014.

Papers presented in the international/National Seminars/Conferences

*Presented a paper in **International Conference** on Computational Science & its Applications on 16.03.2018 at Sri Ramasamy Naidu Memorial College, Sattur, entitled “Classifying Tamil Audio Signals According to Speakers using Combined MFCC and LPC Method”., Abstract pp.28, ISBN: 978-81-937041-2-7

* UGC sponsored **National conference** on Modern Perspectives and Strategies in Teaching, Learning and Evaluation, “New horizons in E-Learning and Career Opportunities”, organized by IQAC, The M.D.T.Hindu College, ISBN 9 788 193 264522, 30.09.2016 & 01.10.2016

* UGC sponsored **National seminar** on Recent Developments in Functional Analysis, Topology and Graph Theory”, organized by Department of Mathematics, The M. D.T. Hindu College, Tirunelveli, “Rough Sets and Data Mining” Abstract p. 56, Pp:395-400, ISBN 978-81-931128-1-6, 27.03.2015

*ve.pa.su. tamiliyal research Maiyam, **National seminar** on Art and Ideology of Manonmaniam Sundaranar, The M. D.T. Hindu College, Tirunelveli. “Manonmaniyatthil olikkum kuralmani” (Tamil article), Article Number: 20, pp. 105-108 ISBN: 978-93-81006-84-9. 10.10.2014

*UGC sponsored **National Conference**, Organized by Dept. of chemistry, The M.D.T. Hindu college, “Cheminformatics and its challenges” pp. 125-130 on 08&09.03.2013.

* **National conference** organized by Fivetamil research centre & v.p.su. tamiliyal research Maiyam The M. D.T. Hindu College, “kaninitamil development and expectation “(Tamil article) pp.505-509 S.No:10, Vol.II ISBN 978-93-80312-06-4. on 11.12.2010

*NAAC sponsored **National Seminar** organized by, G.V.N. College, Kovilpatti. “Application oriented research- The need of the hour” (Abstracts: P.77) on 07& 08.10.2010

***International conference** organized by Mepco Schlenk Engineering College, Sivakasi, “ Application domain space of sensor network in industrial air pollution Monitoring - A study”, pp. 197-202. ISBN 978-81-909614-0-0, on 09-11.12.2009.

* **National conference** organized by National Engineering College, Kovilpatti, “ A Survey on Implementing Sensor networks in Industrial air pollution monitoring” pp. 136-142 on 06 & 07.03.2008

* NAAC sponsored **State level conference** organized by & IQAC, The M. D.T. Hindu College, “Role of IT in Quality Higher Education”, pp. 143-147 on 24 & 25.01.2008.

Papers published in the Journals (With ISSN)

* Design and implementation of Priority Hop Based Energy efficient Cluster Routing algorithm for WSN Data Aggregation", International Journal of Applied Engineering Research, Volume 14, Number 11, June 2019, pp.2698-2703, ISSN 0973-4562, EISSN 2698 2703, UGC Journal reference number 64529, Research India Publications

*‘Multilingual Off-line Handwriting Recognition in Real-World Images Using the Online Support Vector Machine’, Journal of Emerging Technologies and innovative Research, vol.6, no.4, pp. 603-618, ISSN : 2349-5162, April 2019, UGC reference journal number- 1

*“ Heart beat peak detection using signal filtering in ECG data”, International journal of Advanced Technology and Engineering Exploration, Vol6(50), **January 2019**, ISSN(print): 2394-5443, ISSN(online): 2394-7454, Publisher: A unit of ACCENTS, **UGC Reference Journal No: 63626**

*“Comparison of Continuous Probability Distribution and Robust Mean in WSN Data Aggregation”, IOSR Journal of Engineering (IOSRJEN) www.iosrjen.org ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 09, Issue 1 (**January. 2019**), PP 33-37, **UGC Reference Journal No.48995**, Publisher: IQSR Journal, IF 1.645

* “Multiple Mobile Sink Path Selection Using Weighted Rendezvous Planning in Wireless Sensor Network” International Journal of Research in Advent Technology, Vol.6, No.10, **October 2018** pp.2676-2680 **UGC Reference Journal No.48768**, Publisher: IJRAT, ISSN: 2321-9637, E-ISSN:---, IF: 5.153

*“Data Aggregation in WSN Using Robust Mean” International Journal of Research in Advent Technology, Vol.6, No.10, **October 2018** pp.2638-2642, **UGC Reference Journal No.48768**, Publisher: IJRAT, ISSN: 2321-9637, E-ISSN:---, IF: 5.153,

*“Multilingual Off-Line Handwriting Recognition in Real-World Images Using Adaptive Neuro Fuzzy Inference System (ANFIS)”, Journal of Computational Information Systems 14: 5 (2018) pp: 21-33, **October 2018, UGC ref. Journal No:6880, Publisher: Zhongshan Daxuexve/ Zhongshan University ISSN: 15539105, E-ISSN:---**

* “ Multilingual Off-line Handwriting Recognition in Real-World Images Using Deep Neural Network (DNN) Classifier” Journal of Computational Information Systems 14: 4 (2018) pp: 164-175, **August 2018, UGC ref. Journal No:6880, Publisher: Zhongshan Daxuexve/ Zhongshan University ISSN: 15539105, E-ISSN:---**

*International Journal of Intelligent Engineering & Systems, (2185-3118) Vol.11, No.3, pp. 121-129, June 2018, Published by Fukuoka of Japan.<http://www.inass.org/>, entitled A Novel Density Based Clustering Algorithm by Incorporating Mahalanobis Distance

* International Journal of Computer Applications (0975-8887) volume 165, number 11, pp. 15-18, May-2017, entitled Study on data representation and aggregation in WSN

* International journal of computer science and information technologies, vol5 (4), July-August 2014, ISSN 0975-9646, pp.5931-5934, Impact factor 2.93, entitled Design criteria and challenges of Industrial Wireless Sensor Networks.

* International Journal of computer science & communication networks, vol4 (2), April-May2014, ISSN 2249-5789, pp.41-45, Impact factor 3.12 entitled Survey on Applications and Challenges of Wireless Sensor Network in Industries

* International Journal of advanced research in Computer science (0976-5697) volume 3, number 3, May-June 2012, and pp.298-303 entitled Tunable parameters for energy efficient communication in industrial stack monitoring WSN.

* International journal of scientific transactions in environment and Technovation, Volume 5(1), Pp 7-14, July-Sep-2011. ISSN 0973 – 9157, entitled Design of physical topology in sensor network for an industrial air pollution monitoring

* International Journal of Computer Applications (0975-8887) volume 25, number 7, July-2011, Impact factor 0.835, entitled Design and implementation of logical topology in sensor network for an industrial stack monitoring

*RAC journal of research, volume 1, number 2, .Pp.59-62, Feb- 2011.ISSN:2230 – 7362, entitled Castalia: Suitable simulator for WSN Applications

Orientation/ Refresher Courses attended

- * Refresher course in Computer Applications , Bharathiar University, Coimbatore, 17.11.2017 to 07.12.2017
- *Refresher course in Human Rights (multidisciplinary), University of Kerala, Thiruvananthapuram, 06.05.2015 to 26.05.2015.
- * Refresher course on the theme Fundamentals of advanced Computing technologies Madurai Kamaraj University, Madurai, 07.09.2011 to 27.09.2011.
- * Orientation course, Madurai Kamaraj University, Madurai. 18.05.2009 to 12.06.2009

International/National Seminar/Conference attended

- * International Seminar on Recent Trends in Computer Technology, organized by G.Venkataswamy Naidu college, Kovilpatti, on 20.09.2016
- * National conference on new horizons in computational intelligence and information systems, Conducted by Gandhigram Rural Institute- Deemed University, Gandhigram, on 17, 18.12.2015
- *International conference on contribution of Ilakkuvanar to Tamil conducted by Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli. on 25.02.2014.
- * National seminar on Modus- Operandi in research methodologies, consultancy and patent writing conducted by Einstein College of Engineering, Tirunelveli on 25.10.2012
- * CSIR sponsored two days national seminar on Recent Computational Research Methodologies in Data Generation Using Cheminformatics conducted by Einstein College of Engineering, Tirunelveli on 30.08.2012 & 31.08.2012
- * AICTE sponsored National level seminar on “Current Research Issues and latest trends in mobile and wireless networks conducted by National Engineering College Kovilpatti on 12 & 13.11.2007

Workshops attended

- *Participated in the Capacity Building Programme on ICT enabled effective institutional governance, for improving processes, be compliance ready and adapt digital transformation, on 24.06.2019, in Tirunelveli, Conducted by Mastersoft ERP Solutions Pvt.Ltd.
- *National workshop on advanced Cloud computing on research projects conducted by Einstein College of Engineering, Tirunelveli on 14.02.2014 & 15.02.2014.

*State level workshop on Application Of SPSS for Data analysis conducted by Dept.of Economics, The M.D.T.Hindu college,Tirunelveli. on 27.12.2010

* Workshop on NS 2 (Network simulator 2) conducted by Einstein College of Engineering, Tirunelveli on 01.10.2010.

* Workshop on violence against Women issues, remedies and our response conducted by Vanmugil & The M.D.T. Hindu College Tirunelveli. on 17.02.2010.

* Work shop for college teachers on skill based subjects conducted by M. S University, Tirunelveli on 14 & 15.12.2009.

* Work shop on Recent trends in wireless networks conducted by Einstein college of Engineering, Tirunelveli on 10.10.2009.

* Work shop for Ph. D scholars conducted by Mother Teresa Women's University, Madurai centre on 19.01.2008.

* Work shop for Ph.D scholars conducted by Mother Teresa Women's University, Madurai centre on 31.08.2007.

M. Phil Guidance

Awarded: 6

Ph.D Guidance

*Recognized research guide (Computer Science) in M.S.University, Tirunelveli, letter dated 06.03.2015

* Number of students registered for Ph.D – 5

*Major research areas Wireless Sensor Network, Big Data, Digital Image Processing

Extra, Co Curricular Activities

* Co-ordinator Students Science magazine, “ viggana pokkal”.

* Guidance to student's participation in intercollegiate competitions.

* Women cell – Computer science Department representative

* Member, IQAC, SSR preparation - Student support and progression criteria NAAC-2018

* Member HINDUCO Journal

* Reviewer of Journals

* steering Committee Member and Criterion I Convenor for NAAC from 09.01.2019

Resource Person in Research seminar

- * International conference on Recent Trends in Advance Computing and its applications, Department of Computer Applications, Sri Sarada College For Women, Tirunelveli, acted as a chair person and presided over valedictory address about Research avenues in computing technologies, 23.02.2019
- * National level Seminar on Web mining, Department of Computer Applications, Sri Sarada College For Women, Tirunelveli, Inaugural address about Research avenues in web mining, 01.09.2017
- * DST sponsored national workshop on Data Science Research, Department of CS & Eng, Einstein College of Engineering, Tirunelveli, lecture on Big Data Analytics, 01.12.2016
- * State level seminar Department of IT, G.Venkataswamy Naidu College, Kovilpatti, lecture on Research avenues in Networks and data mining, 26.02.2016
- * UGC sponsored National Seminar, Inaugural address and lecture on Research startups in Image processing, Department of CS, G.Venkataswamy Naidu College, Kovilpatti, 11.09.2014
- * UGC sponsored National Seminar, Sri Meenakshi Government College for women, Madurai, lecture on Wireless sensor networking using Castalia in linux Environment, 14.02.2013

Resource person in Association meeting / State level / National level Seminar

- * Chief guest address at inaugural function, computer science department association function, St.Xavier's college(Autonomous), Palayamkottai, 8.7.2019
- * Engage Educate Enlighten, College level faculty Development Program, G.Venkataswamy Naidu College, Kovilpatti, 13.6.2018.
- * Integration of science and society, NSS Meeting, NSS Boys unit, The M.D.T.Hindu College, Tirunelveli, 28.02.2018
- * Innovations in Teaching and Learning Process, National Conference, Sri Vikasa College of Education, Uthamapalayam, Theni Dt., 20.01.2018
- * Beyond a degree – Groom with quality profile, State level seminar, G.Venkataswamy Naidu College, Kovilpatti, 28.09.2017
- * Basic Computer Concepts and Tamil in Internet, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 17.10.2016
- * Keynote address and lecture on Nano Technology in Computer Science, Don Bosco College of Arts and science, Keela Eral, Thoothukudi, 07.03.2016

- * Smart Technologies (WSN, IOT, Drones) , Mother Teresa Womens University, Kodaikanal, 06.01.2016
- * Basic Computer concepts, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 19.10.2015
- * Wireless Sensor networks and IOT, K.R College of arts and Science, Kovilpatti. 25.02.2015
- * Sensor networks and IOT, SRNM College, Sattur, 06.08.2014
- * Nanotechnology in Computer science, Mother Teresa Womens University, Kodaikanal, 03.07.2014
- * Nano technology in Computer science, Rani Anna Government College for women, Tirunelveli , 5.09.2013.
- * Computer Development in Tamil, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 2.09.2013
- * WSN characteristics and its applications, G.Venkataswamy Naidu College, Kovilpatti, 12.07.2013
- * Academic responsibilities of a teacher, College level Staff Development Program, Lakshmi Ammal Polytechnic College, Kovilpatti, 28.05.2010
- * Applications of Nano technology, Govindammal College for women, Tiruchendur, 19.09.2009
- * Emerging Trends in NanoTechnology , G.Venkataswamy Naidu College, Kovilpatti. 15.07.2009
- * Overview of sensor Networks, Sri Sarada College for Women, Tirunelveli, 27.02.2009.

Board of studies member

- * Attended board of studies meeting at V.V.V. College for Women, Virudhunagar, 23.04.2019
- * Attended board of studies meeting at St.Mary's College, Thoothukudi, 16.02.2019
- * Board of studies member for B.C.A., in V.V.V.College for Women, Virudhunagar, 2018-20, Date of meeting attended 07.06.2018.
- * Board of studies member for B.Sc & M.Sc CS, in St .Mary's College, Thoothukudi, 2018-21, Date of meeting attended 24.02.2018
- *Expert to review the B.Sc CS syllabus framed by board of studies in SRNM college, Sattur, 2016
- * Board of studies member for M.C.A. in SRNM College, Sattur, 2016-19. Date of meeting attended 30.01.2016

*Board of studies member for M.Phil computer science in SRNM College, Sattur, 2014-15.

Date of meeting attended 21.07.2014

*Board of studies member for M.C.A. in SRNM College, Sattur – 2013-16. Date of meetings attended: 5.1.2013, 29.1.2014

Professional Affiliation

* Life member in Computer Society of India

Other Academic Activities

*Ph.D doctoral committee member – Attended meeting at Sri Sarada college for women, Tirunelveli on 25.08.2018 (Two scholars).

*Ph.D doctoral committee member – Attended meeting at Rani Anna government college for women, Tirunelveli on 30.07.2018.

*Chief Guest address at Pushpalata Nursery and Primary School, Tirunelveli, in “Sishu Dinam – UKG Graduation ceremony on 29.03.2018

*Ph.D doctoral committee member – Attended meeting at Rani Anna government college for women, Tirunelveli on 4.9.2017.

* Chair person in the PG paper presentation session at state level intercollegiate meet organized by SRNM college, Sattur on 27.08.2015.

* Organizing committee member, state level technical meet on 27.02.2015. In-charge of the event Quiz.

* Inter collegiate meet Chief Guest address And Judge for paper presentation, JP College of Arts and Science, Ayikudi, Tenkasi on 07.03.2014

* Acted as a judge in integrated educational exhibition, at Vyasa Vidyalaya Matriculation Higher secondary school, Puzhuthivakkam, Chennai, on 22.6.2013

*Expert member for the selection of lecturers in the department of computer science at G. Venkataswamy Naidu College, Kovilpatti, on 06.05.2010

* Organizing committee member, One day seminar on research perspective of computer science, on 08.10.2010.