

**Government Arts College (Autonomous), Coimbatore – 18.  
Performance - Teacher Appraisal Report**

**i) General information :-**

- a) Name : Dr.P.RADHA
- b) Address (Residential) : No: 18,Muthu Nagar  
Opp. Road to Balasubramaniam Mills  
Uppilipalayam Post  
Coimbatore-641015.  
Ph: 9842884770  
Mailid: radhamuthu.cbe@gmail.com
- c) Designation : Assistant Professor
- d) Department : Information Technology
- e) Date of Birth : 28.11.1971
- f) Area of Specialization : Data Mining, wireless networks and Image processing



**A. Academic Qualifications**

Exam.passed	Board/University	Subjects	Year	Division/ Grade/Merit etc.
High School	Board of secondary Education	English,Tamil,Maths,Science,History and Geography	1986	First Class
Higher secondary or Pre-degree	Board of Higher secondary Education	Tamil,English,Physics,chemistry,Computer Science,Maths	1988	First Class
Bachelor's degree(s)	Madurai Kamaraj University	B.Sc Mathematics	1991	First Class
Master's degree(s)	Alagappa University	MCA-Computer Applications	1994	First Class
Research degree(s)	Manonmaniam Sundaranar University	Computer Science	May 2002	Awarded

ii)PhD	Alagappa University	Computer Science & Engineering	June 2013	Awarded
Others (Degrees, Diplomas) Certificates etc.				

## ii) Research Experience & Training

Research Stage	Title of work/Thesis	University where the Work was carried out
M.Phil. or equivalent	Performance and Evaluation of Symmetric Algorithms	Manonmaniam Sundaranar University, Tirunelveli
Ph.D.	Design and Development of Optimum Polynomial Supervised Neural Network for Complex Depression Data Mining	Alagappa University, Karaikudi
Research Experience	19	
No of Publication	33	
Publications (give a list separately)	Please Refer Appendix - A	
Research Guidance (give names of students guided successfully )	Please Refer IX) Research Contribution a and b	
Training (please specify)	Please Refer Appendix – B	

## B. Research Projects carried out

Title of the project	Name of the Funding Agency	Duration	Remarks
Nil			

**C) Seminars, Conferences, Symposia Workshops etc., Attended:**

Name of the Seminar/ Conference/Symposia Workshop,etc.	Name of the Sponsoring Agency	Place and Date
Data Analytic Tools	PSG college of Technology, Coimbatore	Jan 17 <sup>th</sup> and 18 <sup>th</sup> 2017

iii) Teaching Experience:

Courses Taught	Name of University/ College/Institution	Duration
i) U.G. (B.A., / B.Sc., etc. Pass) (B.A./ B.Sc. etc., Hons.)	Govt Arts College,Coimbatore LRG Govt Arts College for Women,Tirupur Govt Arts College, Dharmapuri Govt Arts College for Women, Burgur  Dr.G.R.Damodaran College of Science, Coimbatore  VLB Janakiammal College of Arts& Science, Coimbatore  Dr.G.R.Damodaran College of Science, Coimbatore PSG College of Arts & Science, Coimbatore	08.12.2014 to till date 16.07.2009 to 7.12.14  16.2.2008to15.7.2009 26.12.2007 to 15.2.2008 July 2000 to Dec 2007  Dec 1998 to Jun 2000  July 1997 to Nov 1998  June 1995 to June 1997
ii. PG (M.A./M.Sc./MCA etc)	Govt Arts College,Coimbatore LRG Govt Arts College for Women,Tirupur Govt Arts College, Dharmapuri Govt Arts College for Women, Burgur  Dr.G.R.Damodaran College of Science, Coimbatore VLB Janakiammal College of Arts& Science, Coimbatore Dr.G.R.Damodaran College of Science, Coimbatore PSG College of Arts & Science, Coimbatore	08.12.2014 to till date 16.07.2009 to 7.12.14  16.2.2008to15.7.2009 26.12.2007 to 15.2.2008 July 2000 to Dec 2007 Dec 1998 to Jun 2000  July 1997 to Nov 1998 June 1995 to June 1997
iii. M.Phil	Govt Arts College,Coimbatore LRG Govt Arts College for Women,Tirupur Dr.G.R.Damodaran College of Science, Coimbatore	08.12.2014 to till date 16.07.2009 to 7.12.14  Aug 2003 to Dec 2007
iv. Ph.D.,	Govt Arts College,Coimbatore	08.12.2014 to till date
v. Others ( if any)	---	---

**D) Total Teaching experience ( in Years and Months)**

a)	Under-graduate	28 Years
b)	Post-graduate	----
c)	Research	28 Years

**E). Innovations/Contributions in Teaching: -**

a) Design of Curriculum :	Designed syllabus for B.Sc(CS), BSc(IT), BCA., MSc(SS) and M.C.A., Courses in Dr.G.R.Damodaran College of Science
b) Teaching methods :	Lecturing, , educational quiz, group discussions, seminars. Teaching through A/V aids, Industrial visits and training.
c) Laboratory experiments :	Experiments based on problems solving ability in accordance with the syllabus ,Questionnaires and conducting
d) Evaluation methods :	Tests, seminars, problem solving experiments, Paper presentation, Attentiveness of the student is periodically watched, Problem solving Exercises, Projects.
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	1. Mainly prescribed text books 2. Consultation with senior professors 3. Journals and magazines 4. Internet, Magazines, News papers
f) Remedial Teaching / Student Counseling (academic) :	Special coaching classes, Identifying students' problems, helping them in Solving problems & parental counseling.
g) Any other :	Periodical counselling to students of the Department.

**IX) Research Contribution**  
**a). PhD/M.Phil undergoing scholars**

Sl. No	Name of the PhD/ M.Phil(PT/FT) Scholar	Name of the University	Broad Field	Registration Number	Year of registration
1	S.Subadra PhD/PT	Bharthiar	Data Mining	12622/B1/2016	2016
2	T.Shanthi,PhD/PT	Bharthiar	Data Mining	12622/B1/2016	2016
3	V. Arockia Mary Epsy PhD/FT	Bharthiar	Data Mining with Image Processing	21PDEC 1487/2022	2021
4	M. Mohammed Sherif Ashitkhan PhD/PT	Bharthiar	Data Mining	22PNOV 1089/2022	2022

**b). PhD/M.Phil Awarded**

S.No.	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD/M. Phil
1	Uma Mohanakrishnan	Bharathidasan		2003	2004
2	A.Gayathri Devi	Bharathidasan		2003	2004
3	S.Rajini George	Bharathiar		2004	2005
4	S.Chandralekha	Bharathiar		2005	2007
5	R.Deepa	Bharathiar		2005	2006
6	K.S.Malarvizhi	Bharathiar	Improve QOS with Routing paradigm for Hybrid Wireless network using Guarantee neighbor HOP selection Algorithm	2013	2016
7	N.Ragupathy	Bharathiar	Terrific Attack Detection Using efficient key Management in Dynamic wireless Sensor networks	2015	2018
8	V.Navamani	Bharathiar	A Secure Model for Prevention of Sybill attack in MANET Using Biometric & Fuzzy Logic	2015	2018
9	R.Shenbagapriya	Bharathiar	A Method to Analysis & Direction of Prosaic Cancer & treatment Using C4.5 Algorithm.	2016	2018

10	M.VidhyaLakshmi	Bharathiar	Hash Tagger ++: Efficient High – Coverage Social Tagging of Streaming News	2016	2019
11	S. Sathya	Bharathiar	Segmentation Of Blood Cell Image By Expectation Maximization Algorithm And Classification By Anfis For Leukmia Detection	2019	2020
12	R. Divya,PhD/FT	Bharthiar	Prediction of Hepatocellular carcinoma by classifying multiple time series and multiple measurements clinical datasets	2015	2022
13	B. Meena Preethi PhD/PT	Bharthiar	Multi – Disease Prediction And Medical Diagnosis Classification in Humans Using Machine Learning Algorithm	2015	2023

**X. Extension Work/Community Service: -**

a) Please give a short account of your contribution to:

i) Community work such as values of National integeation, secularism, Democracy, socialism, humanism, Peace, scientific temper, flood or Drought relief, small family norms etc., : Creating awareness about the basic values, Interpersonal skills, social skills and Prosocial behaviour among students and members in the community.

ii) National Literacy Mission : Creating awareness about the importance and value of literacy.

b) Positions held/Leadership role with Extension Work and National Service Scheme (NSS) or (NCC) or any other similar activity. : i) Resource person for training the school teachers  
ii) Acted as ICT co-ordinator

**C) Participation in Corporate Life: -**

a) College/ University / Institution	Helping the Principal, HOD in the Departmental activities, Maintaining Discipline in the campus, Motivating the Students to join the entire extracurricular Activities.
b) Co-curricular Activities	Conducting all the festival celebration and doing the cultural activities
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Helping/assisting /guiding the Principal, HOD, Colleagues and students to enrich the campus life.
d) Students Welfare and Discipline	Periodical counselling to the students, their Parents and family members in the Guidance.
e) Membership / Participation in Bodies	Acted as Member in Board of CS,BU,Cbe Member of BOS in GAC,Coimbatore.
f) Professional Organization of Teachers	-----

a) Members of professional bodies, societies etc.. : Participated in Gyanvani Programmes  
Acted as Member of Kalaikathir Publns  
Acted as Resource person in universities & colleges

b) Editorship of journals : Chief Editor of college magazine (GRD)  
Infomine



**F) Any other information**

<b>Academic Year</b>	<b>Details</b> <i>(Enclose copies of relevant certificates / documents)</i>
<b>2018-19</b>	* Books Published: 3 Nos (COMPUTER SCIENCE, COMPUTER APPLICATIONS, COMPUTER TECHNOLOGY FOR HIGHER SECONDARY FIRST YEAR, STATE BOARD, TAMIL NADU)-Team work *Acted as a Key Resource Person to train Higher Secondary School Teachers for First Year Computer Science Subjects (HOTEL KANCHI, EGMORE)
<b>2019-20</b>	*Books Published: 1 No (COMPUTER SCIENCE FOR HIGHER SECONDARY SECOND YEAR, STATE BOARD, TAMIL NADU)-Team work *Acted as a Key Resource Person to train Higher Secondary School Teachers for Second Year Computer Science (KSR ENGG COLLEGE, THIRUCHENGODE)
<b>2020-2021</b>	_____

**Dr.P.Radha**  
**(Signature of the teacher)**

## **APPENDIX – A** **PUBLICATIONS**

### **JOURNAL PUBLICATIONS**

1. Ramraj E and Radha P,“Performance of Fisher’s Linear Discriminant Function in classification of Depression data”, International Journal of Computer Science Engineering, Noble Journals, Vol.1, No. 2, 2009, pp. 101-117.
2. Ramraj E and Radha P,“Classifying the Depression Data Polynomial Discriminant Vectors”, CIIT Journal, April 2012.
3. P Radha and V Punithavathi “Multi-Resolution Efficient Photography Image Fusion based on Gradient Exposure”, CIIT Journal, July 2014.
4. P Radha and K.S.Malarvizhi“ A Qos-Oriented Distributed Routing Protocol for Hybrid Wireless Networks with Qualified Neighbor Node Selection”, International Research Journal of Engineering & Technology, Vol. 2, Issue. 6, September 2015.
5. N Ragupathy and P Radha “Terrific Attack Detection Using Efficiency Key Management In Dynamic Wireless Sensor Networks”International Journal Of Computer Science Engineering & Technology, Vol.2, Issue 4-October 2016.
6. B.Meena Preethi and Dr.P.Radha, “Self-medical analysis using internet-based computing upon big data”, International Journal of Advanced Engineering Research and Technology (IJAERT) Volume 5 Issue 1, January 2017, ISSN No.: 2348 – 8190
7. B.Meena Preethi and Dr.P.Radha,“ Enabling Data Integrity Protection in Cloud Storage Using Cryptography” International Journal of innovative research in technology” (IJIRT) Volume 3 issue 9 February 2017.
8. B.Meena Preethi and Dr.P.Radha “Adaptive Genetic Algorithm Based Fuzzy Support Vector Machine Query Mechanism For Image Mining”, ARPN Journal Of Engineering & Applied Science”, VOL .12, No.9May 2017-ISSN 1819-6608. (Scopus Indexed Journal).
9. Dr.P.Radha and R.Divya, ”Study On the Classification Algorithm For Prediction of Disease”, International Journal of Advanced & Innovative Research(IJAIR),ISSN 2278-7844, Vol.No.5, Issue No-04, APR-16.
10. Dr.P.Radha and R.Divya ,”Survey On the Multiple time Series Data with Data Mining Techniques” ,International Journal of Computational Intelligence Research(IJCIR),ISSN 0973-1873, Vol-13, N0-4(2017), pp 615-620.

11. Dr.P.Radha and R.Divya ,”A Firefly Optimized Feature selection in Multiple Time Series clinical data with Merging statistical measures & Wavelet Frequency Spectrum for Hcc recurrence Prediction”, International Journal Of Recent Scientific Research,ISSN-0976-3031,Vol.8,Issue 9,pp 20015-20019,Sep-17.(UGC APPROVED JOURNAL).
12. Dr.P.Radha and R.Divya ,”An Enhanced HCC Recurrence Prediction with Common Interest Features in Multiple Time Series Clinical Data Set, International Journal of Applied Engineering Research(IJAER),ISSN 0973-4562,vol.12,pp-8443-8449,2017.(Scopus Indexed Journal).
13. Dr.P.Radha and R.Divya ,” A HCC Recurrence Prediction in Multiple Time Series Clinical Data with Merging Statistical Measures Of Advanced Frequency Spectrum of Time Series Features”, Journal of Engineering and Applied Sciences(JEAS),Vol.12,No.9,May 2017-ISSN 1819-6608.(Scopus Indexed Journal)
14. V. Navamani & Dr.P.Radha,”An Efficient Fuzzy Logic comparison with different method in MANET”,IJSRD Journal,Vol.5,Issue 10,2017,ISSN(Online):2321-0613 .
15. S.Subadra and Dr.P.Radha,”Improving energy efficiency of Sensor by energy harvesting in Wireless Sensor Network: A Survey” ,International Journal of Scientific Research in Computer Science, Engineering and Information Technology volume2,Issue 6,Nov-Dec 2017 .
16. Dr.P.Radha and T.Shanthi,”Simple Single Neural Net in Pattern Classification Hebbian & Perceptron Rule-A Review”,CIIT International journal of Biometrics & Bioinformatics, Vol 9,Dec-2017 .
17. Dr.P.Radha and S.Shenbaga Priya,”A survey of prostate cancer using data mining algorithms”, IJAIR.
18. Dr.P.Radha and B.MeenaPreethi,"Text Mining Pathology and Radiology Records To Habitually Classify Against Disease : Computing The Control of Linking Data Sources", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 3 Issue 6, pp. 76-84, July-August 2018.
19. Dr.P.Radha and R.Divya,”An Cuttlefish Algorithm Based Optimized Multiple Time Series Clinical Data For HCC Prediction”,International journal of Pure and Applied Mathematics,Vol.119 No.18 2018,3223-3249.
20. An Enlarged and Efficient Hash-tagger++ Framework for News Stream in Social Tagging issues,International Journal of Scientific Research in Computer Science and Engineering,Vol 6,Issue 6-Dec-2018

21. Social Hash Tag Techniques Using Data Mining-A survey, International Journal of Scientific Research in Computer Science and Engineering, Vol 6, Issue 3, Jun-2018
22. "Machine Learning Approaches For Disease Prediction from Radiology And Pathology Reports", Journal of Green Engineering ,August 2019 (ISSN:2245-4586) Vol. 9, Issue - 2, Page No. 149-167 Alpha Publishers,( Scopus Indexed Journal) –IF:1.57
23. ,"Disease Classification and Prediction using Ensemble Machine Learning Classification Algorithm“, International Journal of Recent Technology and Engineering(IJRTE) ISSN : 2277- 3878, Volume -9 Issue-6, March 2021 Page No.202-214 ,2021, Blue Eyes Intelligence Engineering and Science Publication.(Scopus Indexed Journal)- IF:1.20.
24. "Machine Learning Data Mining Methods to Predict Forecoming Covid-19 cases", International Journal of Life Sciences and Pharma Research ISSN 2250-0480, Vol. 7, No. 8, Page Nos. 150-154 , June 2022, IJLSPR.(Web of Science Journal)-SJIF 2022:8.547
25. Achieving Enhanced High Throughput On Cluster Based Wireless Sensor Network with Multiple Mobile Sink. Journal of critical Reviews. Jun-20. 2394-5125. scopus Indexed .
26. Ensembled IALTP feature descriptors and support vector machine classification for face recognition. Journal of advanced research in dynamic and control. June 2020 volume 12 \ Issue 6 1943-023X Scopus Indexe
27. "An Optimized Hcc Recurrence Prediction Using APO Algorithm Multiple Time Series Clinical Liver Cancer Dataset", **Journal of Medical Systems** Vol.43, Number 7, J Med Syst(2019) 43:1-12,2019 ,**Springer(SCIE, Web of Science,IF:2.415)**
28. " An Efficient Detection of Hcc-Recurrence In Clinical Data Processing Using Boosted Decision Tree Classifier, **Procedia in Computer Science**, ISSN: 1877-0509, Volume 167, 2020, Pg.Nos:193-204, **Elsevier (Scopus Indexed, Web of Science)**.
29. Extensive Simulation Analysis of Multiple mobile sink scheduling architectures towards energy consumptions in wireless sensor network. Neuroquantology. June 2022 volume 20 issue 6. **ISSN 1303-5150**. Scopus Indexed
30. A Performance Comparative Analysis of Mobile Sink Scheduling Techniques towards Energy Consumptions in Wireless Sensor Network. Advanced Engineering Science( sep 2022,voume 54,issue 02 **ISSN 2096-3246**. Scopus Indexed
31. Ensemble Learning Based Multiple Mobile Sink Architecture For Energy Efficient Wireless Body

- Area Network Towards Disease Centric Patient Group Data Management. Journal of Pharmaceutical Negative Results. Volume 13:Special Issue 9,2022. **ISSN 2632-6736.** (Web of Science)
32. A discrete region infrared differential evaluation feature selection architecture for human face recognition. International journal of health science. 6(s2) May 2022 8528 - 8536 Scopus Indexed
33. A Unified Approach for Face recognition based on probabilistic network using gray wol optimization Neuroquantology . August 2022 \ volume 20 \Issue10. 1303-5150. Scopus Indexed

#### Books Published:

1. . “Systems Analysis & Design”, Radiant Publishing House, Hyderabad, 2001-2002
2. “Java Programming”, Radiant Publishing House, Hyderabad, 2003-2004
3. “Discrete Mathermatics for Computer Science & Applications”, Kalaikathir Achagam, Coimbatore, July 2003
4. Acted as one of the Domain Expert/Author for the textbook of Computer Science, XI std,Department of School education, SCERT 2018,Tamilnadu
5. Acted as one of the Domain Expert/Author for the textbook of Computer Applications, XI std,Department of School education, SCERT 2018, Tamilnadu
6. Acted as one of the Domain Expert/Author for the textbook of Computer Technology, XI std,Department of School education, SCERT 2018, Tamilnadu
7. Acted as one of the Domain Expert/Author for the textbook of Computer Science,XIIstd, Department of School education, SCERT 2019, Tamilnadu

#### **PAPER PRESENTATION IN CONFERENCES**

- 1.Ramraj E and Radha P,“An Expert System using Case-Based for Diagnosis of Depression”, International Conference on Global Manufacturing and Innovation 2006, Coimbatore Institute of Technology, Coimbatore, July 27-29, 2006.
2. Ramraj E and Radha P“Depression Data Mining using Back-Propagation Algorithm”, IEEE International Advanced Computing Conference, Tharapur University, Patiala. The Proceedings published in IEEE Explorer, March 6-7, 2009.
- 3.“Application of Radial Basis Function in Depression Data Mining”, International symposium on Intelligent Science and Technology, Sun College of Engineering and

Technology, Sun Nagar, Erachakulum, Kanyakumari, Proceedings of the IIST 2009, June 18, 2009.

4. Dr. P. Radha and Meena Preethi B “A Survey on Predicting Heart disease using Data Mining Techniques”, III international Conference on Advances in Information Technology & Networking, Dr. G. R. Damodaran College of Science, Coimbatore, Feb 11, 2016

5. Dr. P. Radha and Divya R "A Survey on the Prediction of Diseases Based On the Classification Algorithms" III International Conferences On Computer Applications & Information Technology, Hindusthan College of Arts and Science, Coimbatore, March 11, 2016.
6. Radha P and Divya R "Multiple Time Series Clinical with Frequency Measurement and Feature Selection", 2016 IEEE International conference On Advances in Computer Applications", 24 Oct 2016, Bharathiyar University, Coimbatore. (Scopus Indexed).
7. "Application of Genetic Algorithm in Diagnosis of Leukemia "National Conference on Advanced Computing , Bharathiar University , September 2016 ISBN : 9789386 176271
8. Meena Preethi B and Radha P "Adaptive Genetic Algorithm based Fuzzy Support Vector Machine (AGA-FSVM) query Mechanism for image Mining" "International Conference on Interdisciplinary Research Innovations in Computer Science, Biosciences and Electronics", in Kulalalumpur, Malaysia , Nov-2016-ISBN 978-93-80800-64-6.
9. Dr. P. Radha and R. Divya , " A HCC Recurrence Prediction in Multiple Time Series Clinical Data with Merging Statistical Measures Of Advanced Frequency Spectrum of Time Series Features", ICACET 2017, WARSE, JULY 29 , 2017, Bangalore.
10. Dr. P. Radha and B. Meena Preethi "A Survey Paper On Text Mining - Techniques, Applications and Issues" International Conference On Next Generation Computing Technologies (icngct 2017) Organized by Department of Computer studies, Sankara College of Science And Commerce, 12th october 2017 ISBN: 978 – 93 – 5288 – 250 .
11. Dr. P. Radha and R. Divya, " An Cuttlefish Algorithm Based Optimized Multiple Time Series Clinical Data For HCC Prediction", 1<sup>st</sup> International Conference on Humanities, Technology and Science (ICHTS2018), 19 October 2018.

## **APPENDIX –B**

### **TRAINING**

- 1) Attended 30 days **Orientation Programme** organized by the UGC- Academic Staff College, Bharathidasan University, Trichy from 26<sup>th</sup> Dec 2007 to 24<sup>th</sup> Jan 2008.
- 2) Attended 21 days Refresher Course Programme in Computer Science organized by UGC-Academic Staff College. Bharathiar University, Coimbatore from 15<sup>th</sup> Sep 2010 to 5<sup>th</sup> Oct 2010
- 3) Attended 21 days Refresher Course Programme in Environmental Science organized by UGC-Academic Staff College. Bharathiar University, Coimbatore from 10<sup>th</sup> May 2017 to 30<sup>th</sup> May 2017
- 4) Attended 21 days Refresher Course Programme in Computer Science organized by UGC-Academic Staff College. Bharathiar University, Coimbatore from 13<sup>th</sup> Feb 2019 to 5<sup>th</sup> Mar 2019