## Government Arts college (Autonomous), Coimbatore – 18 Performance - Teacher Appraisal Report

A. General information :-

a) Name : Dr. R. A. ROSELINE

b) Address (Residential) : No: 4, Nethaji nagar,

Nanjundapuram Road, Coimbatore-641036. Ph: 9443683150

Mailid: roselinera@yahoo.com

c) Designation : Associate Professor

d) Department : Computer Applications

e) Date of Birth : 13.12.1971

f) Area of Specialization : Wireless Sensor Networks

#### **B.** Academic Qualifications

				Division/
Exam passed	Board/University	Subjects	Year	Grade/Merit
				etc.
High School	Board of secondary Education	Tamil, English, Maths, Science, History& Geography	1987	I Class with Distinction
Higher secondary or Pre-degree	Board of Higher secondary Education	Maths, Physics, Chemistry, Biology	1989	I Class with Distinction
Bachelor's degree(s)	B.Sc., Bharathiar University, Coimbatore.	Computer Technology	1992	I Class with Distinction
Master's degree(s)	M.Sc., Bharathiar University Coimbatore.	Computer Science	1994	I Class with Distinction
Research degree(s)	1) M.Phil Periyar University,	Computer Science	2007	Awarded
	2) PhD Bharathiar University Coimbatore-14.	Computer Science	2015	Awarded

Others (Degrees, Diplomas)				
Certificates etc.	TNPSC	Departmental Exam	2012	Government of
Account Test For Executive Officer		7th Aug 2012 Published		Tamilnadu - May 2012

# C. Research Experience & Training

Research Stage	Title of work/Thesis	University where the Work was carried out
M.Phil	A Study on the Adhoc On-demand Distance Vector Routing Protocol and performance comparison of AODV with Mobile Adhoc Networks (MANET) Routing protocols.	Periyar University, Salem.
Ph.D.	Environment monitoring using Energy efficient Routing algorithm in Wireless Sensor and Actor Networks	Bharathiar University Coimbatore-14.
Post-Doctoral		
Publications (give a list separately)	Please Refer Appendix - A	
Research Guidance (give names of students guided successfully)  Training (please specify)	Please Refer Appendix - B	

## D. Research Projects carried out

Title of the project	Name of the	Duration	Remarks
	Funding Agency		
"Energy Efficient	UGC	2 yrs	Completed
routing in Wireless	MRP- 3868/11		
Sensor Networks	(MRP/UGC-SERO)		
for Pollution	dated August 2012		
Monitoring".			

## E. Seminars, Conferences, Symposia Workshops etc., Attended:

Name of the Seminor/	Name of the	
Conference/Symposia	Sponsoring Agency	Place and Date
Workshop,etc.		
Please Refer Appendix - C		

## F. Teaching Experience:

	Name of University/	
Courses Taught	College/Institution	Duration
i) U.G. (B.A., / B.Sc., etc. Pass) (B.A./ B.Sc. etc., Hons.)	Govt.Arts College, Coimbatore	29.10.99 till date
ii. PG (M.A./M.Sc./MCA etc)	Govt.Arts College, Coimbatore	29.10.99 till date
iii. M.Phil	Govt.Arts College, Coimbatore	June 2007 till date
iv. Ph.D.,	Govt.Arts College, Coimbatore	March 2015 till date
v. Others ( if any)		

## **Total Teaching experience**

a) Under-Graduate (Pass) : 25 Years

b) Under-Graduate (Hons) : ----

c) Post-Graduate : 24 Years

#### G. Innovations/Contributions in Teaching:-

a) **Design of curriculum** : Designed syllabus for B.Sc(CS), BSc(IT),

BCA., MSc(SS) and M.C.A., Courses

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 viva-voce.

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. prescribed text books and reference

books

2. E-material for MCA syllabus

f) Remedial Teaching/Student

**Councelling (academic)** 

Special coaching classes, Identifying students' problems, helping them in

solving problems and counseling.

g)Any other : Periodical counseling for career

enrichment to the students of the

Department.

#### H. Extension Work/Community Service:-

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

i) Community work such as values of National integeration, 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.

: Resource person for training the school teachers , college teachers

#### I. Participation in Corporate Life:-

Please give a short account of your contribution to:

a) College/University/Institution activities

: Supporting the Principal in academic and administrative

Departmental activities, Maintaining Discipline in the campus, Motivating the

Students to join extra curricular

Activities.

b) Co-curricular Activities : Conducting technical events and

cultural activities

c) Enrichment of Campus Life : Assisting the Principal,

Colleagues and students to enrich (hostels,sports,games,cultural the campus life through culturals

Acitivities)

d) Students welfare and Discipline

: Periodical counselling to the students,

their Parents and family members

e) Membership/Participation in Bodies/ Committees on Education and National Develop-

ment

: Anti ragging committee member

f) Professional Organization of

Teachers.

: ----

g) Members of professional bodies, : Life member of Indian Science Congress

h) Editorship of journals : -----

i) Any other information : 1)E-goverence nodal officer of the college,SPOC of

TCS-ION

## APPENDIX A

#### LIST OF PUBLICATIONS

#### **A) International Conferences**

- [1] R.A.Roseline, Dr.P.Sumathi, "Local Clustering and Threshold Sensitive Routing Algorithm for Wireless Sensor Networks", in the IEEE sponsored International Conference on Devices Circuits and Systems(ICDCS'12), March 2012 (<u>Available online at ieeeexplore.com</u>).
- [2] R.A.Roseline and Dr. P.Sumathi "A Decentralised Routing Algorithm for Time Critical Applications using Wireless Sensor Networks" in Advances in Computing and Information Technology", Springer(pg125-133) (Available online at springerlink.com).

#### **B)** International Journals

- [3] R.A.Roseline and Dr. P.Sumathi, "Energy Efficient Routing Protocols and Algorithms for Wireless Sensor Networks", Global Journal of Computer Science and Technology, December 2011 (ISSN: 0975-4350).
- [4] R.A.Roseline and Dr. P.Sumathi ,"Pollution monitoring for healthy environment using integrated Wireless Sensor Networks and Grid Computing ", Journal of Global Research in Computer Science Volume 3, No 1, January 2012 (ISSN-2220-371X).
- [5] R.A.Roseline and Dr. P.Sumathi, "Fire Monitoring and Extinguishing Algorithm using Wireless Sensor and Actor Networks", The International Journal of Advanced Smart Sensor Networks(IJASSN), Volume 2,No 4, Oct 2012.
- [6] R.A.Roseline, M.Devapriya and Dr.P.Sumathi "Pollution Monitoring using Sensors and Wireless Sensor Networks: A Survey", International Journal of Application or Innovation and Engineering and management, August 2012).

(ISSN: 2319-4847) (**Funded by UGC**).

- [7] R.A.Roseline, Dr.M.Devapriya and Dr.P.Sumathi, "Pollution Monitoring using energy efficient routing in Wireless Sensor Networks", in International Journal of Emerging Trends and Technology in Computer Science (IJEERT), (ISSN: 2278-6856) ( Funded by UGC).
- [8] R.A.Roseline and Dr. P.Sumathi , "Solar Power for Wireless Sensor Networks in Environment monitoring Applications-A Review", in International Journal of Scientific Research Publications, (ISSN 2250-3153).

- [9] R.A.Roseline and Dr. P.Sumathi, "A Review on Clustering Techniques for efficient routing in Wireless Sensor Networks" in International Journal of Information Technology, (ISSN: 2321-5976).
- [1]0 K.Sarammal And R.A.Roseline "Wireless Sensor Networks and Its Application, Platforms, Standards and Tools" International Journal of Computer Trends and Technology (IJCTT) volume 4 Issue 8 August 2013 (ISSN: 2231-2803)
- [11] Ms. S. Elizabeth Amalorpava Mary, Dr.R.A.Roseline \*2 "Survey on Extracting High Utility Item Sets from Transactional Databases "International Journal of Computer Trends and Technology (IJCTT) volume 25 Number 3 July 2015(ISSN :2231-2803)
- [12] L.Ramesh,R.A.Roseline2, "Survey on Cloud Computing Security and Data Integrity Auditig Schemes in Cloud Platform" International Journal of Computer Sciences and Engineering Vol.-6, Issue-7, July 2018 (E-ISSN: 2347-2693)
- [13] V.I.SEMMALAR1 ,R A Roseline "Mining Competitors and Unstructured Datasets" International Journal of Modern Electronics and Communication Engineering (IJMECE Volume No. 6, Issue No.-4, July, 2018)( ISSN: 2321-2152 )
- [14] L.Ramesh, R.A.Roseline, "A Survey on Cloud Computing Security and Data Integrity Auditing Schemes in Cloud Platform" International Journal of Computer Sciences and Engineering, Vol.6(7), Jul 2018, E-ISSN: 2347-2693
- [15] L.Ramesh, R.A.Roseline, "Secure Data Sharing Of Sensitive Medical Record (Phr) In the Cloud" International Journal of Innovative Technology and Exploring Engineering (SCOPUS INDEXED), Volume-8 Issue-10 ,August 2019, ISSN:2278-3075
- [16] L.Ramesh, R.A.Roseline,"New QR-Code based encryption algorithm for secure medical data in cloud storage"Journal of interdisciplinary and multidisciplinary Research, Volume-XII, November 2019, ISSN:1936-6264
- [17] L.Ramesh, R.A.Roseline,"An Implementation of New QR based encryption algorithm for secure medical data in cloud storage"International journal of engineering and advanced technology(SCOPUS INDEXED) Volume-9 Issue-2,December 2019, ISSN:2249-8958
- [18] L.Ramesh, R.A.Roseline, "A LITERATURE SURVEY ON OPTICAL IMAGE ENCRYPTION TECHNIQUES" The International journal of analytical and experimental modal analysis, Volume XII, Issue I January 2020, ISSN NO: 0886-9367
- [19] L.Ramesh, R.A.Roseline,"An Implementation of Enhanced Image Encryption Algorithm by using DRPE-FFT and QR Code for secure Medical Data in Cloud Storage"Indian journal of Natural Sciences, UGC approved, Vol 10 Issue 59, April 2020, ISSN:0976-0997
- [20] SEMMALARV.I, R.A.Roseline,"Survey of Recent Technologies Used In Precision Agriculture"International journal of advanced engineering science and information technology, Vol.5(9), MAY 2022, E-ISSN: 2349-3216

- [21] Semmalar.V.I, R.A.Roseline,"Smart Farming using Internet of Things: A Review",National Conference on Cybersecurity and Digital Forensics for Society, Vol -1, OCT 2022, ISSN-978-93-91347-26-0
- [22]Semmalar.V.I, R.A.Roseline, "Survey of Smart Farming Techniques Using Datamining and Machine Learning Approaches" IJRAR- International Journal of Research and Analytical Reviews, Vol.10(3), JULY 2023 ISSN N0-2348 1269

## **APPENDIX B**

IV. M.Phil Scholars details (only who have completed from 2018 -19-Till date)

Date of					
Name of the Scholar	Date of M.Phil registration	Name of the University	M.Phil degree awarded	Guide Name & Address	Title Of The Dissertation
P.RUBA	Sep 2012	Bharathiar University, Coimbatore.	29.06.2015	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	A Study Of Confidential Data Discovery And Dissemination Using Aodv Protocol In Wireless Body Area Networks
V.SOWNDARRAJAN	Sep 2012	Bharathiar University, Coimbatore.	29.06.2015	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	A Study Of Reliable Communication In Large Scale Wireless Sensor Networks Using Ant Based Protocol
R.RAMESHKUMAR	Sep 2013	Bharathiar University, Coimbatore.	5.4.2016	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	A Study on Improving The Privacy And Accuracy Of The Storage Node In Military Ad-Hoc Networks.
D.NANDHINI	Sep 2013	Bharathiar University, Coimbatore.	22.12.2014	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	A Study Of Effective Temporal Predicate Analysis For Continuous Secure Data Aggregation In Wireless Sensor Networks
S.ELIZABETH AMALOPRAVA	Nov 2014	Bharathiar University,	5.4.2016	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D,	A Study on Enhanced μp-Growth ++

MARY		Coimbatore.		Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	Algorithm For Mining High Quality Item Sets From Transaction Of Databases
R.NANDHINI	Sep 2015	Bharathiar University, Coimbatore.	09.03.2018	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	Text Categorization Using Enhanced Knn With Term Frequency Inverse Document Frequency
D.MATILDA	NOV2015	Bharathiar University, Coimbatore.	26.07.2021	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	ENHANCED PEER CLUSTERING TECHNIQUE TO PROLONG NETWORK LIFETIME IN WIRELESS SENSOR NETWORKS WITH DYNAMIC MOBILE SINK PATH DETERMINATION
V.I.SEMMALAR	OCT2017	Bharathiar University, Coimbatore.	22.02.2019	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	MINING COMPETITORS FROM LARGE UNSTRUCTURED DATASETS OFINLINE REVIEW FOR PRODUCTS USING ENHANCED C-MINER ALGORITHM
T.ARTHI	OCT2018	Bharathiar University, Coimbatore.	02.03.2020	Dr.R.A.Roseline, M.Sc.,M.Phil., Ph.D, Associate Professor, Post Graduate And Research Department Of Computer Applications, Government Arts College, Coimbatore.	OPTIMIZATION BASED ON HYBIRD GENETIC ROUTING AND SCHEDULING SCHEME WITH ROBUST TRANSMISSION IN WIRELESS NETWORKS

T.G.GANGA	OCT2019	Bharathiar	20.10.2021	Dr.R.A.Roseline,	ENHANCED
		University,		M.Sc.,M.Phil., Ph.D,	MAINTENANCE IN
		Coimbatore.		Associate Professor,	SECURE AND
				Post Graduate And	ENERGE AWARE
				Research Department	ROUTING
				Of Computer	PROTOCOL FOR
				Applications,	WIRELESS
				Government Arts	SENSOR
				College,	NETWORKS
				Coimbatore.	

# APPENDIX C

S.No.	Name of the Event	Date	Institution	Topic
1	Workshop	1.2.2018 to 2.2.2018	Bharathiar University	Data analytics with R
2	Seminar	15 .2.2017 to 16.2.2017	ICT Acadamy, PSG College of Arts, Coimbatore	Introduction to BigData Analytics
3	Conference	28.11.2017 to 4.12.2017	NCM at Melbourne, Australia	Conference on Contemporary issues in Computer Science