ALAGAPPA UNIVERSITY

(A State University Re-Accredited with 'A' Grade by NAAC)

Karaikudi-630 003, India

DEPARTMENT OF COMPUTER SCIENCE

PROFILE

National Responsibilities

Collaborative Directed Basic Research (CBDR) in smart secure Environment Sponsored by NTRO, New Delhi.

Faculty Members

Dr.E.Ramaraj

Professor & Head i/c

Dr.K.Kuppusamy

Professor & Chairperson

Dr.T.Meyyappan

Professor

Dr.S.S.Dhenakaran

Professor

Dr.A.Padmapriya

Associate Professor

Dr.S.Santhosh Kumar

Assistant Professor

December 2016

Preface

The Department of Computer Science located on the science campus is a part of the School of Computer Sciences of Alagappa University. Computer Science is one of the disciplines which is now generally recognized as an essential source of tools and techniques for advancements in nearly all fields of human endeavors. The Department of Computer Science has been established in the Academic year 2016-2017. Earlier the Computer Science programmes are offered by the Department of Computer Science and Engineering. Later it is bifurcated into Department of Computer Science and Department of Computer Applications. The Computer Science Department offers degrees Master of Science, Master of Philosophy and Doctor of Philosophy in Computer Science. The main objective of the department is to produce worldwide competitive, highly skilled, socially responsible Computer Science graduates who can work in highly challenging and dynamic knowledge based industry and pursue higher education. Exposures are given to students on emerging technologies by providing hands on training and to inculcate values, and leadership qualities with zeal to serve society and to bridge the digital divide.

The research programs of the Department cover a number of areas like Data Mining, Information / Network Security, Communication Networks, Databases, Algorithms, Image / Video Processing, Cloud Computing, Big Data, Software Engineering, Operation Research, Mathematical Algorithms, Wireless Communications, Machine Learning, Computational Biology, Semantic Web & Software Development. Further, the Department comprises well experienced faculty members with research aptitude and expertise in these areas.

The department has flexibility in framing courses and conducting tests and examinations. It provides best quality teaching and guidance to students and budding researchers. The faculty is also very active in extension programmes, in reaching out to students, researchers and the general public through workshops, conferences, training programmes at national/international levels. ALUMNIs of the department placed in prominent positions in India and abroad are visiting the department, motivate the young students and explore employment opportunities.

The faculty members supporting programs offered by the department are experienced and highly qualified which provides an excellent environment for learning and research. Computer Science is indeed rapidly growing field with a wide range of job opportunities in India as well as abroad. The faculty members are committed to preparing our graduates to meet tomorrow's challenges with diverse educational and research opportunities.

As per the Choice Based Credit System followed in our University, the Department of Computer Science is offering the following inter disciplinary courses for the even semester. The Subjects Covered is:

- C and C++ Programming

- Internet and Web Design

- Green Computing

- Office Automation

OBJECTIVE

- To Conduct Ph.D Programmes that carry out advanced research in the field of Data Mining, Image /Video Processing, Cloud Computing, Network/Information Security, Mathematical Algorithms, Operations Research, in which the current research are in progress.

- To train students to work together, adaption of upcoming technologies and exploring the thrust research areas

- To Promote society oriented quality research works

Professor and Head

Research Interest

Faculty I

Dr. E.Ramaraj
Professor & Head i/c

Area of Research/Specialization:

Data mining plays a vital role in recent research field. It is a powerful technology to extract the hidden perspective data from large databases by using various data mining algorithms. Additionally, the research concentrates on Communication Networks such as Infrastructure and Infrastructure less Networks. The idea behind the routing protocol concept performs in the communication network to find and select the ideal route to transfer the data between source and destination. Also, the main objective of the routing protocol is used to speed up the data transferring process and to reduce the traffic or end-to-end delay during data transmission. Recently, the Big Data and Analytics leads to process of collecting, organizing and analyzing large data sets to discover patterns and other useful information.

- ➢ **Data Mining**
- ➢ **Network Security**
- ➢ **Big Data & Analytics.**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	80
No. of papers presented in Conferences	:	56
h-index	:	8
i-10 index	:	8
Total Citations	:	291

Awards and Recognitions

Dr. Mohan Best Teacher Award-2011 received from Tamil Nadu College of Education, Nainarpuram, Sivaganga District.

Research Group Members

P. Geetha, V.Sameswari, T.Nithya, K. Jembari and K.R. Sivabalan

Past Members

- K.Punithavalli, Assosiate Professor, Department of Computer Application Bharathiar University, Coimbatore.
- E. Chandra, Professor and Head, Department of Computer Science, Bharathiar University, Coimbatore.
  Mr.S.Karthikeyan, Head of IT Security, Department of IT, Sohar, Oman
- R.Gokulakrishnan, Joint Director, STPI, Chennai
- Dr.Senthirajan, Director, Department of Computer Centre, Alagappa University, karaikudi
- Dr.A.Padmapriya, Associate Professor, Department of Computer Science, Alagappa University, karikudi
- D. Nepolean, Assistant Professor,Bharathiar University, Coimbatore

Faculty II

Dr. K.Kuppusamy
Professor

Area of Research/Specialization:

The development and analysis of algorithms for a variety of settings and applications that includes Cryptography, Algorithmic techniques for Internet Applications as well as optimization problems increased in present decade. The current research interest focuses on various aspects of network and computer security, databases, design and analysis of programs and programming languages, and supporting studies in combinatorial, logical, and algebraic mathematics. The areas of research interest include:

- **Neural Networks**
- **Operations Research**
- **Image Processing**
- **Network/Information Security**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	90
No. of papers presented in Conferences	:	70
h-index	:	7
i-10 index	:	5
Total Citations	:	168

Awards and Recognitions

Certification of Commemoration by Alagappa University - 25 years completion of service in Alagappa University - Teacher's day Sep.2016 Celebration

Research Group Members

P.Ilango, P.A.Moralie, AM.Hema, C.Pandimuthu and J. Mahalakshmi

Past Members

- K.Natarajan, Associate Professor,Thiagarajar College of Arts and Science, Madurai
- SM.Thamarai, Guest Lecturer,Government Arts College, Karaikudi
- A. Balu, Assistant Professor, National Institute of Technology, Tiruchirappalli
- K. Thamodaran, Associate Professor & Head, Kurinji Arts College, Thanjore
- S. Murugan, Assistant Professor, Wolekit University,Ethiopia
- K. Mahesh, Professor, Alagappa University, Karaikudi

Faculty III

Dr. T. Meyyappan

Professor

Area of Research/Specialization:

Currently engaged in Privacy preserving Data Mining, networking and Image processing research. Completed 3-years major research project in privacy preserved Data publishing funded by U.G.C during 2012-2015. Visited Malaysia, Dubai and Indonesia and presented papers in International Conferences. Organizing conferences and seminars at National and International Levels. Edited a monograph of research proceedings of National Conference MINDS 2014 sponsored by UGC and Conducted by Alagappa University.

- ➢ **Digital Image Processing**
- ➢ **Networks**
- ➢ **Data Mining**
- ➢ **Data Privacy**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	48
No. of papers presented in Conferences	:	66
h-index	:	7
i-10 index	:	5
Total Citations	:	158

Awards and Recognitions

1. Best Citizens of India Award 2012, International Publishing House, New Delhi
2. Certification of Commemoration by Alagappa University - 25 years completion of service in Alagappa University - Teacher's day Sep.2016 Celebration

Research Group Members

K. Lakshmi, M.Veni and V. Robil Rohit

Past Members

- P. Pandi Selvi
- M. Ilayaraja, Assistant Professor, Ananda College, Devakottai.
- S. Alagu, Assistant Professor, Department of BCA, Hindustan Collge of Arts and Science, OMR, PAdur, Chennai.
- S.Kasthuri, Assistant Professor, Swami Dayananda College of Arts and Science, Manjakkudi, Thiruvarur.
- R.Mahesh, Project Scientist - B, Centre for Climate Change Research, Indian Institute of Tropical Meterology, Pune, India.

Faculty IV

Dr.S.S. Dhenakaran
Professor

Area of Research/Specialization:

Dr.S.S.Dhenakaran, Professor, Department of Computer Science has been working in Alagappa University since 1987. He has mathematical and computing backgrounds to teach and research to both students in Mathematics and Computer Science. He has nearly thirty years of teaching experience in the field of Computer Science. His area of research is Mathematical Algorithms, Cryptography ad Data Mining. Mathematical algorithms play a vital role in computer programming. Expertise in algorithms can develop optimized highly performing algorithms. So, Mathematical algorithms are most essential to solve any kind problems which require computational steps. All computer programming requires a mathematical model to demo how a system is working. Cryptography is most important area in Internet arena since in Internet; there is no restriction for a user to access any information. So it is required to hide the meaning of data to avoid unnecessary tampering of information. This area of learning is hot requirement of manipulating internet activities. Data mining principles are helpful to take business effectively. It helps Industrial people to analyze past information to forecast the requirements of company to compete with other Industry in novice dimension. From the prime area of research nearly hundred papers are presented in conferences and International Journals.

> ➢ **Mathematical Algorithms**
> ➢ **Cryptography**
> ➢ **Data Mining**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	47
No. of papers presented in Conferences	:	38
h-index	:	5
i-10 index	:	3
Total Citations	:	110

Awards and Recognitions
1. M.Sc(Maths), Madurai Kamaraj University Fourth Rank
2. Distinction in M.Phil Computer Science

Research Group Members

V. Mary Kiruba Rani, K. Berlin, P.Ramesh Kumar and A.Parvathavarthini

Past Members

- S. Yasodha, Associate Professor,Government Arts College, Pudukkottai.
- S.Maheswari, Programmer, Alagappa University, Karaikudi
- L.Rajeswari, Senior System Programmer, Alagappa University, Karaikudi
- K. Thirunana Sambanthan, Assistant Professor, Sankara college of Science & Commerce, Coimbatore

Faculty V

Dr.A.Padmapriya
Associate Professor

Area of Research/Specialization:

Her research area includes Information Security, Data Mining and Communication Networks. Her primary area of research is Information Security. In the digitalized era, enormous amounts of digital data are being shared over the different networks and also available in different storage mediums. Internet users enjoy this convenient way of sharing images and at the meantime, they need to face the consequences like chosen plain-text, statistical, differential attacks, and brute-force attack. These attacks and noises create the need of enhancing the image information security. She also works on clinical information extraction using Data Mining Techniques. Electronic Medical Records (EMRs) contain clinical information of individuals to increase the reusability and reduce the costs in healthcare sectors. Most of the EMR is in plain text and unstructured form, hence it is difficult to filter and retrieve useful knowledge from the records for Healthcare stakeholders and clinicians. For sharing information efficiently we need Internet QoS. The Internet has quickly evolved into a very critical communications infrastructure, supporting significant economic, educational, and social activities. Simultaneously, the delivery of Internet communications services has become very competitive and end-users are demanding very high quality service from their service providers. Traffic engineering involves adapting the routing of traffic to the network conditions, with the joint goals of good user performance and efficient use of network resources.

- ➢ **Information Security**
- ➢ **Data Mining,**
- ➢ **Communication Networks**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	76
No. of papers presented in Conferences	:	41
h-index	:	4
i-10 index	:	2
Total Citations	:	64

Awards and Recognitions

1. Qualified UGC-NET in December 2003
2. Gold Medal in M. C. A, Bharathidasan University
3. Best outgoing student of M. C. A and first prize for Proficiency in Major in M. C. A, Bharathidasan University.
4. University fourth rank in B. Sc., Computer Science, Bharathidasan University.
5. Best outgoing student of B.Sc., Computer Science
6. First prize for Proficiency in Major and Allied (Physics) in B.Sc., Computer Science

Research Group Members

N.Kanagaraj, L.Sathish Kumar, P.Subhasri and MU.Annalakshmi

Faculty VI

Dr.S.Santhosh Kumar
Assistant Professor

Area of Research/Specialization:

I do research in Data mining, Swarm Intelligence and Computational Biology. A central theme is the study of Bi g data, Biological systems and learning real time systems and modelling systems for complex systems the behaviour of the size tends to infinity via consideration of some suitable infinite random structure. Much current work involves random network models.

➢ **Data Mining**
➢ **Machine Intelligence**
➢ **Computational Biology**
➢ **Ontology**

Achievements made in Teaching/Research/Extension

No. of Research Publications	:	18
No. of papers presented in Conferences	:	6
h-index	:	02
Total Citations	:	08

Awards and Recognitions

1. Best Paper Award for paper publication by International Journal (TIJCSA)

Research & Consultancy Projects

Completed Projects

S. No.	Principal Investigator	Project Title	Period		Funding Agency	Amount ₹ (in lakhs)
			From	To		
1.	Dr.E.Ramaraj Dr.K.Kuppusamy Dr.T.Meyyappan Dr.S.S. Dhenakaran	Collaborative Directed Basic Research (CBDR) in smart secure Environment	08/2007	08/2012	NTRO, New Delhi	100
2	Dr.T.Meyyappan	Design of A New Algorithm to preserve the privacy in data publishing against record and attribute linkage attacks	06/2012	06/2015	UGC, New Delhi	3.4
3	Dr.K.Kuppusamy	Cryptanalysis of Image Encryption Algorithms	03/2011	03/2012	Alagappa University, Karaikudi	0.20
4	Dr.A.Padmapriya	E – Governance: A move towards Paperless admin	03/2011	03/2012	Alagappa University, Karaikudi	0.20

Details of Fellowships being availed by the Research Scholars/Project Staff

S. No.	Name	Reg. No.	Fellowship
1	V.Sameswari	627/2012-13	RGNF
2	J.Mahalakshmi	0833/2013-14	AURF
3	M.Veni	861/2013-14	RGNF
4	V.Mary Kiruba Rani	1114/2014-15	MANF
5	K.Berlin	1198/2015-16	TET

List of Research Publications since 2011

1. D.Napoleon, Dr.E.Ramaraj,(2014) "An Efficient Fuzzy Cylindrical Partial Relations Clustering Algorithm for the Classification of Remote Sensing Images", European Journal of Scientific Research, Vol. 127, No. 4, ISSN 1450-216X.

2. AV.Karthick, Dr.E.Ramaraj and R.Kannan,(2013) "An Efficient Tri Queue Job Scheduling Using Dynamic Quantum Time for Cloud Environment", Proc. of IEEE International Conference on Green Computing, Communication and Conservation of Energy, (ICGCE-2013), Chennai, PP. 873-878, ISBN: 978-1-4673-6125-5.

3. AV.Karthick, Dr.E.Ramaraj and R.Kannan,(2014) "An Efficient Multi Queue Job Scheduling for Cloud Computing", Proc. Of IEEE International Conference on World Congress on Computing and Communication Technologies (WCCCT-2014), PP. 164-166, ISBN: 978-1-4799-2876-7.

4. AV.Karthick, Dr.E.Ramaraj,(2014) "Comparative Study of Genetic Algorithm, Ant Colony Optimization and Particle Swarm Optimization Based Job Scheduling Algorithms for Cloud Environment", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2).

5. AV.Karthick, Dr.E.Ramaraj,(2014) "Reservation and On-Demand Priority Based Queue Job Scheduling for Cloud Computing", International Journal of Emerging Trends in Computing and Communication Technology, PP. 1-5, ISSN: 2348 4454, Vol. 2, No. 1.

6. D. Napoleon, Dr.E.Ramaraj,(2015) "An Adaptive Fuzzy C- Means Algorithm for the Color Feature Extraction in Remote Sensing Images", International Journal of Innovative Trends in Engineering (IJITE), Vol. 04, No. 01, ISSN: 2395-2946, PP. 39-41.

7. D.Napoleon, Dr.E.Ramaraj,(2014) "An Efficient Segmentation of Remote Sensing Images For The Classification of Satellite Data Using K-Means Clustering Algorithm", IJIRST –International Journal for Innovative Research in Science & Technology, Vol. 1, Issue. 6, ISSN (online): 2349-6010.

8. D.Napoleon, Dr.E.Ramaraj,(2014) "An Improved Way of Segmentation and Classification of Remote Sensing Images using Kernel Induced Possiblistic C-Means Clustering Algorithm with Statistical Measures", IJSRD - International Journal for Scientific Research & Development, Vol. 2, Issue 09, ISSN (online): 2321-0613.

9. Dr. E. Ramaraj and P.Radha,(2012) "Classifying the Depression Data Polynomial Discriminant Vectors", CIIT Journal.

10. Dr.E.Ramaraj, AV.Karthick,(2012) "An Efficient Scheduling Algorithm for Cloud Computing", Emerging Trends in Global Business, RVS Institute of Management Studies and RVS College of Engg. and Tech. Coimbatore, Tamil Nadu India.

11. J. Saravanesh and Dr. E. Ramaraj,(2013) " Scalability Enhancement of Push/Pull Server functions by converting Stateless process using AJAX Mechanism", IOSR Journal of Computer Engineering (IOSR-JCE), Vol. 13, Issue. 1, PP 17-21,ISSN: 2278-8727.

12. J. Saravanesh and Dr. E. Ramaraj,(2014) "Optimizing Web service performance enhanced with Push-Pull architecture using Data set wrappers", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2).

13. J. Saravanesh and Dr. E. Ramaraj, (2012) "Scalable Transaction Authorization Using Role Based Access Control for Time Based Content Access with Session Management", International Journal of Engineering Research and Development, Vol. 5, Issue. 5, ISSN: 2278-800X.

14. J. Saravanesh and Dr. E. Ramaraj, (2015) "Scalable Push Pull architecture for retrieving student information request and response with data wrappers", International Journal of Engineering and Computer Science, Vol. 4, Issue. 1, Page No. 10127-10131, ISSN: 2319-7242.

15. K.Kavitha, Dr. E.Ramaraj, (2013) "An Adequate Approach for Actionable Pattern using Combined and Composite Association Rule Mining", Universal Journal of Applied Computer Science and Technology, Vol. 3(2), PP. 387-393, ISSN: 2250-0987.

16. K.Kavitha, Dr. E.Ramaraj, (2013) "Comparing Various Approaches of Frequent Pattern Mining with Combined Association Rule", European Journal of Scientific Research, ISSN: 1450-216x.

17. K.Kavitha, Dr. E.Ramaraj, (2013) "Efficient Transaction Reduction in Actionable Pattern Mining for High Voluminous Datasets Based on Bitmap and Class Labels", International Journal of Computer Science and Engineering, Vol. 5.

18. K.Kavitha, Dr. E.Ramaraj, (2013) "IP-FPM: An Efficient Algorithm for Intensified Priority Based Frequent Pattern Mining", European Journal of Scientific Research, Vol. 95, Issue. 2, ISSN: 1450-216x.

19. K.Kavitha, Dr. E.Ramaraj,(2012) "Knowledge Discovery Approach in Shopping Complex Database (ASCD)", International Journal of Computer and Organization Trends, Vol. 2, ISSN: 1450-216x.

20. K.Kavitha, Dr. E.Ramaraj,(2012) "Mining Actionable Patterns Using Combined Association Rules", published in International Journal of Current Research, Vol. 4, pp.117-120, ISSN: 0975- 833x.

21. P.Geetha, Dr.E.Ramaraj, (2014) "A Frequent Trajectory Path Mining Using Bit Mask Search and UP Growth+ Algorithm", Computing and Communication Technologies (WCCCT), 2014 World Congress on, IEEE Xplore, March-2014, pp.17 - 20 ISBN: 978-1-4799-2876-7 .

22. P.Geetha, Dr.E.Ramaraj,(2013) "Bit Mask Search Algorithm for Trajectory Database Mining", International Conference on Computing and information Technology (IC2IT-2013), IJCA Proceedings on International Conference on Computing and information Technology 2013, International Journal of Computer Applications (0975 – 8887).

23. R. Sridevi, Dr. E. Ramaraj,(2013) "A General Survey on Multidimensional And Quantitative Association Rule Mining Algorithms", International Journal of Engineering Research and Applications, ISSN: 2248-9622 www.ijera.com Vol. 3, Issue 4, pp.1442-1448.

24. R. Sridevi, Dr. E. Ramaraj, (2014) "A Novel Approach for Multidimensional QuantitativeAssociation Rule Mining", European Journal of Scientific Research, ISSN 1450-216X / 1450-202X Vol.117 No.3pp.458-469.

25. R. Sridevi, Dr. E. Ramaraj,(2013) "Finding Frequent Patterns Based On Quantitative Binary Attributes Using FP-Growth Algorithm, International Journal of Engineering Research and Applications, ISSN : 2248-9622, Vol. 3, Issue 6 pp.829-834.

26. R. Sridevi, Dr. E. Ramaraj,(2014) "Multidimensional Quantitative Rule Generation Algorithm for Transactional Database", International Journal of Computer Applications, Volume 99.

27. RM. Vidhyavathi, Dr.E.Ramaraj, N. Venkatesan, (2012) "A Study of Mining Web Intelligent Information", International Journal of Emerging Technology and Advanced Engineering, www.ijetae.com, ISSN 2250-2459, Vol. 2, Issue. 9.

28. RM.Vidhyavathi and Dr. E. Ramaraj, (2012) "An Ontology-Based Information Retrieval System Using Apriori and Semantic Search", is published in European Journal of Scientific Research, Vol. 92 No. 3. (Scopus, SCI).

29. RM.Vidhyavathi and Dr. E. Ramaraj, (2013) "Ontology Based Association Rule Mining Algorithms for Intelligent Decision Making", European Journal of Scientific Research, Vol. 100, No.2. (Scopus, SCI).

30. RM.Vidhyavathi and Dr. E. Ramaraj,(2011) "Ontology Building Web Information Retrieval System Using Association Rule Mining", is published in International Journal of Computational Intelligence and Information Security, October 2011, Vol 2 No.10, pp: 54-66, (ISSN 1837-7823)

31. V. Mathivanan, Dr.E.Ramaraj, (2012) "Adjusted Probabilistic Based Route Discovery Process in Mobile Adhoc Networks", International Journal of Comupter Science and Information Security (IJCSIS), ISSN: 1947-5500, Vol. 10, No. 2, PP. 50-54.

32. V. Mathivanan, Dr.E.Ramaraj,(2011) "An Analysis of Fixed Probabilistic Route Discovery Mechanism Using On-Demand Routing Protocols", International Journal of Innovative Technology and Creative Engineering (IJITCE), ISSN: 2045-8711, Vol. 1, No.12, PP. 20-27.

33. V. Mathivanan, Dr.E.Ramaraj,(2012) "An Analysis of Probabilistic Route Discovery Mechanism Based on Node Mobility", International Journal of Engineering and Innovative Technology and Creative Engineering (IJEIT), ISSN: 2277-3754, Vol. 1, No. 2, PP. 57-63.

34. V. Mathivanan, Dr.E.Ramaraj,(2012) "Performance Enhancement of AODV Routing Protocol Based on Network Density", International Journal of Engineering and Innovative Technology (IJEIT), ISSN: 2277-3754, V. Mathivanan, Dr.E.Ramaraj,Vol. 1, No. 5, PP. 37-44.

35. V. Mathivanan, Dr.E.Ramaraj,(2012) "Probabilistic Based Route Discovery Process in Mobile Adhoc Networks", Proc. of International Conference on Knowledge Management & Resource Sharing (ICKMARS 2012), Sultanate of Oman, PP. 48.

36. V.Sameswari, Dr.E.Ramaraj,(2014) "A Study of Table- Driven and On- Demand Routing Protocols in MANET", International Journal of Computer Technology and Applications, Vol. 5(2), 522-529, ISSN: 2229-6093, IJCTA.

37. V.Sameswari, Dr.E.Ramaraj,(2013) "Comparative Study of AODV, DSR, DSDV and OLSR Routing Protocols in MANET", Proc. of International Journal of Computer Applications (0975-8887), International Conference on Computing and Information Technology (IC2IT).

38. V.Sameswari, Dr.E.Ramaraj,(2015) "Performance Comparison Between Static and Dynamic Network Environment Using Network Simulator 2", Proc. of International Conference on Advances in Applied Engineering and Technology.

39. V.Sameswari, Dr.E.Ramaraj,(2014) "Shortest Route Discovery Using Hybrid (Aodv and Olsr) Routing Protocols in Manet", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2), pp. 273–279.

40. J. Mahalakshmi and K.Kuppusamy, (2016), "Security-as-a-Service" for files in cloud computing — A novel application model", IEEE Xplorer (ISBN: 978-1-4673-7807-9), 5th Nov. 2016. (I.F. 5.629)

41. P.Elango and K.Kuppusamy, (2016), "Fuzzy FP-Tree based Data Replication Management System in Cloud", International Journal of Engineering Trends and Technology (IJETT), (ISSN: 2231-5381), Vol.36, No.9, June 2016, pp. 481-489. (I.F: 1.656)

42. J. Mahalakshmi and K.Kuppusamy, (2016), "Data Security in Cloud Computing Via Bio – Inspired Optimization Technique", International Journal of Advanced Research Trends in Engineering and Technology(IJARTET),(ISSN:2394-3777),Vol.3, Special Issue 20, April.2016, pp 573-577. (I.F.4.753)

43. P.A.Moralie and K.Kuppusamy, (2016), "CBIC: A Novel Image compression Algorithm", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), (ISSN:2394-3777), Vol.3, Special Issue 20, April.2016, pp 631-634. (I.F.4.753)

44. A. Hema and K.Kuppusamy, (2016), "Fuzzy based multilevel security access control mechanism for pervasive computing application: Smart Library Management", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), (ISSN:2394-3777),Vol.3,Special Issue 20, April.2016, pp 106-109. (I.F.4.753)

45. K.Thamodaran and K.Kuppusamy, (2016), "Security Scheme for Data Authentication Based on Elliptic Curve Cryptography", International Journal of Computer Science & Engineering Technology (IJCSET) (ISSN : 2229-3345), Vol. 7 No. 04 Apr 2016, pp 156-162.

46. S. Murugan and K. Kuppusamy, (2016), "Functioning of Intelligence Intrusion Multi-Detection Prevention System" , i-manager's Journal on Information Technology"(JIT) (ISSN 2277-5110), Vol.5. No.1,Dec-February 2016, pp 18-27.

47. J. Mahalakshmi and K.Kuppusamy, (2016), "An Efficient Image Encryption Method based on Improved Cipher Block Chaining in Cloud Computing as a Security Service", Australian Journal of Basic and Applied Sciences (AJBAS) (ISSN 1991-8178 EISSN: 2309-8414), Vol. 10(2) Feb. 2016, pp 297-306. , (I.F.0.786)

48. S. Murugan and K. Kuppusamy, (2015), "Unknown Malware Attack by using Intelligence Intrusion Multi Detection Systems", International Journal of Applied Engineering Research (IJAER)(ISSN 0973-4562), Vol.10. No.69, July 2015, pp 49 – 54 (I.F.0.12)

49. K. Mahesh and K.Kuppusamy, (2015), "A Comparative Study of Hybrid Video Segmentation Techniques using Fuzzy Clustering Algorithms", International Journal of Applied Engineering Research (IJAER)(ISSN 0973-4562), Vol.10. No.12, July 2015, pp 32321-32334, (I.F.0.12)

50. J. Mahalakshmi and K.Kuppusamy, (2015), "A Block Cipher based Cryptographic Algorithm to enhance the Data Security", International Journal of Applied Engineering Research (IJAER)(ISSN 0973-4562), Vol.10. No.55, June 2015, pp 1866-1870. (I.F.0.12)

51. K.C.Chandra Sekaran and K. Kuppusamy, (2015), "Block Truncation Code and Discrete Cosine Transform in Biometric Images", International Journal of Computing Algorithm (IJCOA) (ISSN 2278-2397), Vol.4, Spl.Issue, March 2015 pp.1355-135, (I.F 0.309)

52. A. Balu and K. Kuppusamy, (2014), "An expressive and provably secure Ciphertext-Policy Attribute-Based Encryption", Information Sciences, ScienceDirect Elsevier journal, Vol.276, 20 August 2014, pp 354-362 ISSN: 0020-0255. (I.F 3.643)

53. Kuppusamy K and Malathi S, (2014), "A new methodology to prevent DDoS attacks during peack hours of Server", Elsevier Publications, Proceedings of National Conference on Data Science (NCDS-2014)", August 8-9, 2014, pp 288-294, (ISBN : 978-93-5107-294-2)..

54. Kuppusamy K and Sharmila K, (2014), "A new hybrid Image Compression method using DCAT and Fractal with Quadtree Technique" Elsevier Publications, Proceedings of National Conference on Data Science (NCDS-2014)", August 8-9, 2014, pp 144-150, (ISBN : 978-93-5107-294-2).

55. K. Thamopdaran and K. Kuppusamy, (2014), "Optimized Partial Image Encryption Scheme Based on PSO and DE", Journal of Computer Science and Applications (JCSA) (ISSN 2231-1270), Vol.6, Number 1, May 2014 pp. 335-339.

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Books/Book Chapters

S.No.	Faculty Name	Title of the Book	Publisher	ISBN No
1	Dr.K.Kuppusamy	**Internet Concepts and Programming Tools for Professionals**	Shroff Publishers and Distributors Pvt. Ltd., Mumbai.	9789351102007
2.	Dr.A.Padmapriya	**Proc. of International Conference of Innovations in Computer Science and Technology (ICICST 2016)**	Alagappa University. Karaikudi.	9788192046280

S.No.	Faculty Name	Chapter Title and Book Name	Publisher	ISBN No
1	Dr.K.Kuppusamy	Preventing Unknown Malware Attack by using Intelligence Intrusion Multi Detection Prevention System **Network Security** *Issues, Challenges and Techniques* - Page 157	Narosa Publicstions, New Delhi. (2010)	978-81-8487-088-6
2	Dr.A.Padmapriya	Distributed Computing and Internet Technology, DOI : 10.1007/978-3-319-28034-9. SJR: 0.25.	Springer - verlag, Lecture Notes in Computer Science. (2016)	1611-3349, 0302-9743,

Conferences/Workshops/Seminars Organized

S. No.	Conferences/Workshops/Seminars	Period
1.	National Conference on Mining, Internetworking and Data Security (MINDS-2014)	March 27-28, 2014
2.	Workshop on Cloud Infrastructure & Services (FDP)	February 23-27, 2015
3.	Seminar on Career Advances in SMAC & IOT Employment Opportunity	March 31, 2015
4.	International Conference on Innovations in Computer Science and Technology	April 4-5, 2016
5.	International Workshop on Data Science and Analytics	September 27-28, 2016
6.	National Seminar on Advances in Computer Science	October 21-22, 2016
7.	Workshop on Career Prospects and Developments in Computer Science	February 27-28, 2017
8.	National Conference on Emerging Trends in Computing	March 13-14, 2017

Programmes offered

1. **M. Sc. (Computer Science)**
2. **M. Phil., (Computer Science)**
3. **Ph. D. in Computer Science**

1. M. Sc.(Computer Science)

Program objectives

- To train students to work together, adaption of upcoming technologies and exploring the thrust research areas

Eligibility

Pass in B.Sc. Degree in Computer Science/Information Technology/Electronics or B.C.A. or any qualification equivalent thereto in 10+2+3 pattern with 55% marks in part-III (for SC/ST candidates 50%)

Selection Procedure

Admission is governed by the admissions committee formed by the Alagappa University. The admissions are based on the candidate's merit in his/her academic qualifying examination.

Programme structure

Course Code	Title of the Course	Hours per week	Credit	IA marks (Max)	ES marks (Max)	TOTAL marks (Max)
I Semester						
551101	Advanced Computer Architecture	4	4	25	75	100
551102	Design and Analysis of Algorithms	4	4	25	75	100
551103	Distributed Operating Systems	4	4	25	75	100
551104	Internet and Java Programming	4	4	25	75	100
551105	Software Engineering	4	4	25	75	100
551106	Lab I: Internet and Java Programming Lab	4	3	40	60	100
551107	Lab II: Algorithms Lab	4	3	40	60	100
	Total	**28**	**26**			**700**
II Semester						
551201	Advanced Database Systems	4	4	25	75	100
551202	Web Technology	4	4	25	75	100
551203	Communication Skills	4	4	25	75	100
	Elective I	4	4	25	75	100
	Elective II	4	4	25	75	100
551204	Lab III: Web Technology Lab	4	3	40	60	100
551205	Lab IV: Advanced Database Lab	4	3	40	60	100
	Total	**28**	**26**			**700**

	III Semester					
551301	Compiler Design	4	4	25	75	100
551302	Network Security	4	4	25	75	100
551303	Data Mining & Warehousing	4	4	25	75	100
	Elective III	4	4	25	75	100
	Elective IV	4	4	25	75	100
551304	Lab V: Dot Net Lab	4	3	40	60	100
551305	Lab VI : Open Source Lab	4	3	40	60	100
	Total	**28**	**26**			**700**
	VI Semester					
551999	Project Work & Viva – Voce	Five Months	**12**	40	60	100
	Total Credits		**90**			**2200**

IA – Internal Assessment; **ES** – End-Semester

To pass in each course, a candidate is required to secure 40% marks in the Semester examination and 40% marks in the Internal assessment and 50% marks in the aggregate (marks in Semester Examination + marks in Internal Assessment).

ELECTIVE COURSES

	Course Title
	Elective Group I
551551	Object Oriented Analysis and Design
551552	Software Project Management
551553	Software Engineering
	Elective Group II
551554	Mobile Application Development
551555	Mobile Communications
551556	Multimedia and its Applications
	Elective Group III
551557	Web Application Development
551558	Cloud Computing
551559	Digital Image Processing
	Elective Group IV
551560	Soft Computing
551561	Web Intelligence Systems
551562	Grid Computing

Fee structure

S.No	PROGRAMME	Tuition fee	Computer LAB FEE RS	SPL FEE RS.	Other fees Rs.	Special Lecture & Industrial Visit	First year Total fee Rs.	Second year Total fee Rs.
	M.Sc. (Computer Science)	2000	3000	2000	1000	--	8000	7000

2. M.Phil. (Computer Science)

Objective:

- To Conduct Ph.D Programmes that carry out advanced research in the field of Data Mining, Image /Video Processing, Cloud Computing, Network/Information Security, Mathematical Algorithms, Operations Research, in which the current research are in progress.

- To Promote society oriented quality research works

Eligibility

candidate for admission to the Master of Philosophy in Computer Science M.Phil.(Computer Science) programme shall be required to have passed in any one of the programmes M.Sc. Degree in Computer Science/Information Technology or M.C.A. or any qualification equivalent thereto of any recognized University with a minimum of 60% marks in (minimum 55% marks for SC/ST candidates)

Selection Procedure

Admission is governed by the admissions committee formed by the Alagappa University. The admissions are based on the candidate's merit in his/her academic qualifying examination. An entrance examination is conducted by the Alagappa University, to ensure the candidature of the applicant.

Programme structure

Course Code	Title of the Course	Hours per week	Credit	IA marks (Max)	ES marks (Max)	TOTAL marks (Max)
	I Semester					
561101	Research Methodology	5	5	25	75	100
561102	Advanced Trends in Database Systems	5	5	25	75	100
561103	General Skills in Science	5	5	25	75	100
	Total	**15**	**15**			

II Semester						
	Elective – I	5	5	25	75	100
561999	Dissertation		20	25	75	100
	Total	**5**	**25**			
	Total	**40**	**125**	**375**	**500**

IA – Internal Assessment; **ES** – End-Semester

To pass in each course, a candidate is required to secure 40% marks in the Semester examination and 40% marks in the Internal assessment and 50% marks in the aggregate (marks in Semester Examination + marks in Internal Assessment).

ELECTIVE COURSES

Course Code	Title of the Course
561551	Information and Network Security
561552	Advanced Operating Systems
561553	Data Warehousing and Mining
561554	Service Oriented Architecture
561555	Mobile Computing
561556	Ad Hoc Network
561557	High Performance Computer Networks
561558	Digital Image Processing
561559	Cloud Computing
561560	Web Data Mining

Scholars' achievements

S. No.	Reg. No.	Name	Exam(s) Qualified
1.	0833/2013-14	J.Mahalakshmi	TNSET – 2016
2	458/2011-12	S.Alagu	TNSET – 2012
3	609/2012-13	S.Kasthuri	TNSET-2012
4	713/2013-14	P.Geetha	TNSET - 2016

Students' achievements

PMT & VOC MERIT SCHOLARSHIP WINNERS

S. No.	Name	Year of Course	Prize Won
1.	J.Lency	II M.Sc	First
2	M.Bagavathi	II M.Sc	Second
3	P.Ananthi	II M.Sc	Third
4	M.Nachu	I M.Sc	First
5	J.Esther Grace	I M.Sc	Second
6	M.Ilakiya	I M.Sc	Third

Ph. D. Awardees

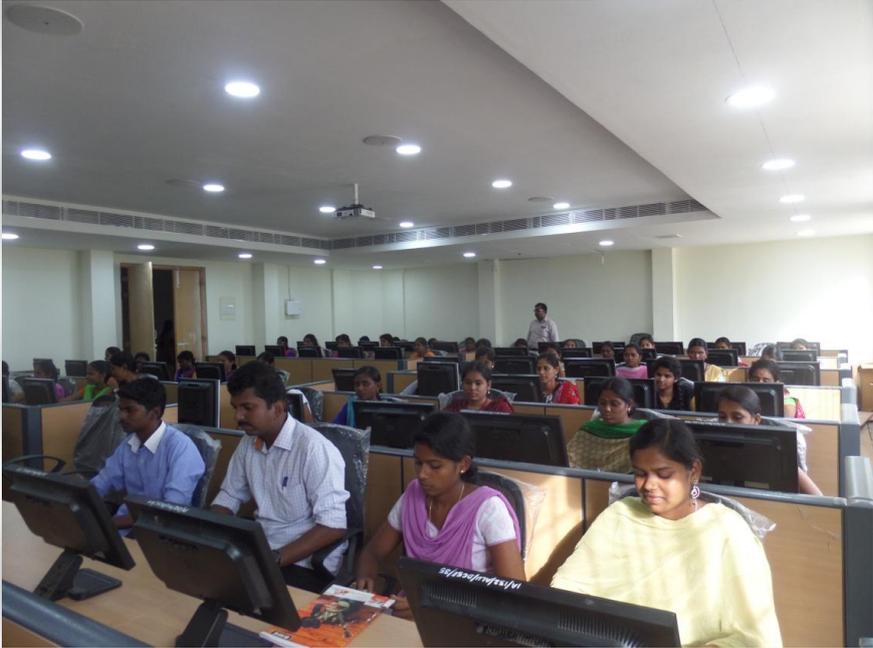| Name	Year of passing
P.Pandi Selvi	December 2016

Facilities

The Department of Computer Science is well equipped with High-Tech internet laboratory comprises of nearly 65 Computers with high end Configuration.

- High – Tech Seminar cum Conference Hall

- Audio systems

- Smart Classrooms

- Department Library (80 – Books)

- OHP and LCD Projectors for Individual Class rooms.

- Multipurpose Modern Computer Lab

Smart Class room with Interactive Session Facility

Well Equipped Computer Lab

Eminent Academicians/Scientists visits

Dr. P. Herbert Raj, Institute of Brunei Technical Education, Brunei Darussalam, delivered a lecture through Video conferencing on "Cloud Computing and Data Analytics"

Video conferencing on Cloud Computing and Data Analytics

Department of Computer Science, Alagappa University has organized a guest lecture on 30-09-2016. Prof. R. Baskaran, Department of Computer Science and Engineering, Anna University, Chennai delivered a lecture on "Best Practices in Software Engineering". Nearly 150 candidates including students and research scholars are benefited through this.

Guest Lecture by Prof. R.Baskaran

Departmental Activities

The Department of Computer Science has organized Alumni Batch meeting of the very first batch [1991 – 1994] students of M.Sc [Computer Science] on 8-7-2016 at 10. a.m.in the Convocation Seminar Hall, Alagappa University, Karaikudi.

The meeting was inaugurated by our Respected Registrar Prof.V.Balachandran and Dean of Science Dr. P. Manisankar. Nearly 38 alumni working at London, USA, UK, Singapore and India were presented in the Meet. The old students exchanged their happiness among themselves as well as with the teachers. They visited the class rooms where they taught lessons in the University.

Alumni Batch Meet M. Sc [Computer Science]

As per the report of 15th Sep. 2016 in the Indian Express, the Tamil Nadu Government has conducted special monsoon Nilavembu Kudineer campaign for five days across the state. More than 10 lakh people have been given this herbal drink at the special monsoon Nilavembu Kudineer camps in Chennai alone to control viral fevers. Further, the State Govt. is recommending Nilavembu Kudineer for prevention and management of all types of viral infections or fevers.

Consequently, the Department of Computer Science, organized a Student's welfare Programme in Alagappa University Science Campus on 15-9-2016 at 10.30 a.m. to distribute Nilavembu Kudineer to the students and workers of this block to get benefitted of medicinal drink. This is being done to control the outbreak of dengue. Nearly 200 students from M.Sc(CS), MCA, M.Phil(CS), M.Sc(Physics), M.Sc(Biotech) etc., were served with this medicinal drink to get immunity against seasonal fevers.

Nilavembu kudineer: A siddha drink boosting Immunity

Department of Computer Science, Alagappa University has organized two days International Workshop on "Data Science and Analytics" during 27-28th September 2016. 205 candidates including students, research scholars and computer science teachers have participated.

In the Inaugural function Prof. E. Ramaraj, Head, Department of Computer Science welcomed the gathering. Prof. K. Kuppusamy, Department of Computer Science, delivered thematic address on the workshop. Prof. V. Balachandran, Registrar, Alagappa University delivered presidential address and pointed out the growth of big data in industries and information technology and how it is useful in assessing the consumer behavior and in identification of criminals by cops. Prof. SR. Subramanya from National University of San Diego, California, USA delivered inaugural address and conducted the workshop. Prof. P.Manishankar, Dean of Science, pointed out how big data are useful in determining the quality metrics of research publications and thereby ranking of educational institutions. Prof.J.Jeyakanthan, Head, Dept. of Bio-Informatics, Member of Syndicate, emphasized that not industries alone generate big data but biological science as well. He appealed to the students about abundant employment opportunities in biological discipline due to big data generation.

International Workshop on Data Science & Analytics

In the valedictory function, Prof. A. Narayanamoorthy, Prof. K. Gurunathan, members of syndicate, delivered the Presidential and Valedictory addresses. Prof. T. Meyyappan presented the workshop report and Prof. S. S. Dhenakaran, proposed vote of thanks. Dr.A.Padmapriya - Organizing Secretary, Dr. S. Santhosh Kumar – Coordinator, Mr. K. Anbazhagan, Dr. N. Gnana Sankaran and research scholars have made elaborate arrangements.

Valedictory Function of International Workshop on Data Science & Analytics

The Department of Computer Science, Alagappa University has organized a two-day National Seminar on "Advances in Computer Science" on 21st- 22nd October 2016. Dr. E. Ramaraj, Professor and Head$_{i/c}$, Department of Computer Science welcomed the gathering. The honorable Vice Chancellor Prof. S. Subbiah delivered presidential address. In his presidential address he addressed that Indian students studying abroad are brilliant in answering questions raised by teachers in any subject of study. It is because of well framed schooling system in India comprising all the subjects compared to the system with specialized subjects followed by foreign countries. Students from India are very strong in Computer Science because they are strong in mathematics. Moreover, young students in foreign countries wish to become Computer Science graduates from Indian Institutions like Alagappa University, he added. He emphasized that, if the students become Computer Graduates, they can excel in any field. He also added that, World class smart class rooms cum laboratories are provided to the Computer Science and Computer Applications students of Alagappa University on par with foreign countries in order to become a model to other institutions in India.

Inaugural Function of National Seminar on "Advances in Computer Science

Thiru PL. Subbiah, CEO, Egston Electronics India Private Limited, Trichy, delivered the inaugural address. In his speech, he stressed the importance of conducting seminars for providing experience and sharing knowledge and advance thinking of young students beyond curriculum boundaries. He appealed to the students to think beyond the minimum curriculum requirements and cope up with the rapid advancement of technology as the market demand

for computer experts is on the rise. Dr.R. Gokula Krishnan, Joint Director STPI (Software Technology Park of India) Chennai, delivered special address on "Digital Technologies and Eco Systems in India". Dean, faculty of Science, Prof. P. Manisankar felicitated and pointed out how quantum computers can achieve efficiency in operations by replacing carbon with silicon material in its infrastructure which is recent advancement in quantum computing that solves problems which are not solved by traditional computing systems.

Prof. J. Jeyakanthan,Professor & Head, Department of Bio-Informatics, Member of syndicate, faculties from various departments, students, research scholars and college teachers have participated. Nearly 250 participants attended the seminar and 54 papers are presented. Three best papers are selected and given best paper awards. Finally, Dr. S.Santhoshkumar, Organizing secretary of the seminar proposed vote of thanks.

SARASWATHI POOJA CELEBRATIONS

The Department of Computer Science celebrated Saraswathi Pooja in the Department of Computer Science. Dr.TR.Gurumoorthy, Dean Research, has conducted Pooja and felicitated the function, on 7th October 2016.

GUEST LECTURE

The Department of Computer Science, organized a Guest Lecture from 13th &14th October 2016. Mr.Ganesh, from GK Infotech, provided training about open source programming and data bases. He has given hands-on training in PHP and My SQL. Nearly 55 Students attended and the training benefits are helpful to the students to undergo M.Sc Projects in these platforms.

PARENTS – TEACHERS MEETING

The Department of Computer Science has organized first Parents Teachers meet on 08-11-2016 at Seventh floor Seminar hall, Science Campus at 10:30 AM. The meet is to create a common platform for Parents and Teachers to share their views, suggestions and experiences for enriching students education. Dr. E. Ramaraj, Professor and Head, Department of Computer Science extended a warm welcome to the parents. Nearly 60 Parents attended the meeting. Dr. A. Padmapriya, Organizing Secretary of this event elaborated the purpose of this meet and invited the faculty members to deliver their views about the students to the parents.

The Head of the Department narrated the student's beneficial schemes which is introduced by honorable Vice-Chancellor Prof. S. Subbiah. He has listed the schemes as Merit Scholarship, Earn while you learn, Complete Fee Waiver Scheme and AURF project fellowship. The parents recorded their gratitude to our Honorable Vice-Chancellor for introducing such schemes for the welfare of the students. Dr. T. Meyyappan, Dr. SS.Dhenakaran, Dr.S.Santhosh Kumar and Mr.K.Anbazhagan shared their views about the students and stressed the importance of commitment in studying, need for improving the communication and skill set of the students. They also explained various Programmes conducted in the Dept. as ICT based teaching, establishing Hi-Tech laboratory for students, Mentoring Students, Workshops, Seminars, Guest Lectures so as to improve the competencies of the students.

PARENTS GATHERING

The parents appreciated the efforts taken by the staff in improving the competencies of the students and guiding them in the right direction. The parents said their feedback and suggested bus stopping in front of the Science Campus, motivation to students toward research as well as job opportunities. The Parents said they were happy in choosing the right place for their wards in doing higher education. In response to the suggestion, the Department informed the requisition to the University Administration and necessary steps are taken.

Further, our Honourable Vice-Chancellor has taken steps to arrange conveyance for the students and a bus is purchased for the University. It is used for trips around the University campus, bus stands and railway stations from Dec 2016 onwards. Now our students are utilizing the University bus.

INVOLVEMENTS & PARTICIPATIONS

Students from the Department of Computer Science has actively participated in the ALUTES 2016, Organized by Alagappa University from 3rd - 5th October 2016.

Faculty members, Research scholars and Students from Department of Computer Science attended the Eye Camp organized by the Department of Bioinformatics on 5th October 2016.

The Department of Computer Science, Alagappa University arranged an Internship program for the II Year Students. The Internship program is offered by the reputed Company "ALGORICS" from Bangalore. In connection to this, written examination was conducted on 13th October, followed by Interview on 1st December 2016.

Extension Activities

Village Placement Program

The Department of Computer Science, Alagappa University, Karaikudi, has organized a three day Village Placement Programme [VPP] at Thiruvelankudi Village from 23-25, Sep. 2016 to the II Year M.Sc(Computer Science) students. This programme is one of the subjects in the curriculum of M.Sc programme. The students are put in stay at the village on these days and trained to study village habitats, people living pattern, their basic requisites, facilities available now etc.

Meanwhile Prof. S. Subbiah, the Vice-Chancellor of Alagappa University visited the school at the VPP camp and asked the students ambition and their immediate needs. He assured for sanctioning a computer system for the school, cricket tool kid and a carom board for the students to improve co-curricular activities.

Happy to say that Thiruvelankudi is one of seven adopted villages by our Hon'ble Vice-Chancellor, Alagappa University under the VPP programme. Due to the adoption scheme, village will get constant attention by Alagappa University also to improve facilities to the village. Thiruvelangudi village is located in Karaikkudi Tehsil of Sivaganga district in Tamil Nadu, India.

As a part of the programme, Dr.S.S.Dhenakaran, Professor and Programme Co-ordinator has arranged events like training school students with Yoga Practices for two sessions, running Competition to students standard-wise, Quiz program testing talent of students with prizes to winners, sapling plantation inside the school, Donating five wall clocks to the school, cleaning village, interacting village people to collect data for analysis to yield future requirements, distributing Nilavenbu Kudineer to the village people, Free Medical camp organized by our Department and Kavery Mecial centre, Karaikudi and

campaign for educating children etc. Since the village has no facilities for girls[98] to stay at Thiruvelankudi, the students were taken to Ona Siruvayal for their food and stay. Further, the students cleaned the temple in and around at Ona Siruvayal as one of the tasks in the programme. The VPP programme has finished at the most satisfaction of the villagers. All the staff members of the Department participated in the programme.

Nila Vembu Kudineer Valanguthal

Sapling Plantation

Honourable Vice –Chancellor Interacting with Students in the VPP Camp

VPP - TEAM

NSS

NSS Volunteers from the Department of Computer Science, attended the Awareness programme on Digital and Cashless Transactions, Launch of VISAKA campaign at Alagappa University, Organized by National Service Scheme, Alagappa University, Karaikudi on 19th December 2016.

Contact us

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