

## RESUME

- (1) **Full name** : DR. DAVID PETER S.
- (2) **Designation** : **Registrar**, Cochin University of Science and Technology
- (3) **Age & Date of Birth** : 52 years, 31/07/1962
- (4) **Address** : Eben-Ezer, Cochin University P.O., Cochin – 682 022.
- (5) **Telephone No.** : 0484-2862750 (O) 0484-2577605 (R), 9446366805 (M),
- (6) **E-mail id.** : [davidpeter@cusat.ac.in](mailto:davidpeter@cusat.ac.in)
- (7.a) **Essential Qualifications (Degree and above):**

Sl. No.	Programme	Board/University	Specialization/Branch	Class/Division
1.	B.Sc (Engg.)	University of Kerala	Civil Engineering	First Class with Distinction
2.	M. Tech.	IIT, Madras	Computer Science	Equivalent to First Class
3.	Ph.D	Cochin University of Science & Technology	Computer Science	No class or division is awarded for this programme

(7.b) **Other Academic Qualifications:**

Sl. No.	Programme	Board/University	Specialization/Branch	Class/Division
1.	PG Certificate programme in German	Cochin University of Science and Technology	German Language	First Class
2.	BTS	Asia Theological Association	Theological Studies	No class or division is awarded for this programme
3.	M.Th	University of Wales, U.K.	Applied Theology	No class or division is awarded for this programme

## (8) Experience

(a) **Teaching** : **28 years & 6 months** of experience in Cochin University of Science and Technology

Sl.No.	Designation	Period	Department	Nature of work
1.	Professor	28/10/2008 to 11/09/2014	School of Engineering	U.G. Teaching
2.	Reader (Direct recruitment)	28/10/1999 to 27/10/2008	School of Engineering	U.G. Teaching
3.	Reader (Under Norms/ Transfer appointment)	18/2/1995 to 27/10/1999	Computer Science	U.G/P.G. Teaching
4.	Lecturer	18/2/1987 to 17/2/1995	Computer Science	P.G. Teaching
5.	Lecturer (Adhoc)	11/2/1986 to 17/2/1987	Computer Science	P.G. Teaching

## (b) Administrative :

- i. Registrar, Cochin University of Science and Technology, since 12/09/2014 till date.
- ii. **Director, Unit for International Relations and Academic Admissions**, Cochin University and Science and Technology since January, 2013 till date (**1 year & 9 months**).
- iii. **Principal, School of Engineering**, from July, 2008 to June, 2012. (**4 years**) ( Progress made by School of Engineering during those 4 years is given in **Appendix E**)
- iv. **Head, Division of Computer Science and Engineering**, School of Engineering from September, 2006 to July, 2012 (**5 years & 10 months**.)
- v. **Warden, B.Tech Hostel**, from June, 2008 to September, 2008 and from July 2009 to June, 2012 (**3 years & 4 months**)
- vi. **Systems Director, Centre for Information Resource Management (CIRM)**, from May, 2000 to March, 2005. (**4 years & 10 months** - Details given in appendix D)
- vii. **Systems Manager, University Computer Centre**, from April, 1995 – May, 2000 (**5 years & 1 month**)

(c) **Research** : **Approved research guide** of Cochin University of Science and Technology since July, 2008  
**PhD produced – two**

## (9) Papers published

Journals : 15 (Details given in Appendix A)  
Conferences : 17 (Details given in Appendix A)

**(10) Coordinatorship of projects/training programmes :**

- i. Co-ordinator, E-governance Project, funded by Government of Kerala.
- ii. Brought in MHRD funded **TEQIP**, worth Rupees 10 crores, in School of Engineering, while holding the charge of Principal, School of Engineering
- iii. Programme Coordinator, Centre for MHO Co-operation during 1998 – 2004 ( Financial outlay for INFOCUS project was Rs 16 Crores – funded by Netherlands Government)
- iv. Co-investigator of KSCSTE sponsored research project worth Rupees 3.98 lakhs on ‘Development of Two-level expert system for recommending appropriate computer accessibility technology for the physically challenged’ (2008-2010)
- v. Co-investigator of the ISRO sponsored research project worth Rupees 9.6 lakhs on ‘Development of multimodal interface for information retrieval’ (2006-2008)
- vi. Co-investigator of AICTE sponsored research project worth Rupees 2.0 lakhs on ‘Development of a multimodal interface for Human computer Interaction’ (2002-2005)
- vii. Co-investigator of the ISRO sponsored research project worth Rupees 6.7 lakhs on ‘Development of Regional Language Interface for Information Retrieval from Database’ (2001-2004)
- viii. Coordinator of the Computer Awareness Programme – a training programme of six weeks duration (for each programme), for the University community, sponsored by MHO programme; Eight batches, consisting of twenty participants per batch, were given training (2000 – 2004)
- ix. Coordinator of AICTE funded project worth Rupees 7.8 lakhs on ‘Modernization of RDBMS Laboratory’ (1998-2000)

**(11) Short term courses attended** : 4 ( Details given in Appendix B)

**(12) Other Training Programmes/  
Workshops attended** :

- International - 6 ( Details given in Appendix C)  
National - 6 ( Details given in Appendix C)

**(13) Other academic assignments** : (i) Resource person for short term courses including one in Taiz University, Republic of Yemen  
(ii) Evaluation of Ph.D Thesis and member of Ph.D viva board, Karunya University, Coimbatore, MG University

**(15) Membership in academic bodies of the university** : (i) Member, Academic Council, CUSAT.  
(ii) Member, Board of Studies in Computer Science, Kannur University

## List of Publications

### A. Journals

1. Sonia Sunny, David Peter S., K. Poulose Jacob, “Performance of Different Classifiers in Speech Recognition”, *International Journal of Research in Engineering and Technology*, Vol. 2(4) pp. 590-597, April, 2013. [www.ijeret.org](http://www.ijeret.org). IF – 1.962, ISSN:2319-1163.
2. Sonia Sunny, David Peter S., K. Poulose Jacob, “Performance Analysis of Different Wavelet families in Recognizing speech”, *International Journal of Emerging Trends and Technology*, Vol. 4(4) pp. 512 – 517, April, 2013. [www.ijettjournal.org](http://www.ijettjournal.org). IF – 0.537, ISSN:2231-5381.
3. Reena Murali, David Peter S., “Mechanism of RNAi in Genomics and Therapeutics”, in *International Journal of Computer Applications*, New York, USA, Vol. 48 (4), pp. 21 – 24, June, 2012. [www.ijcaonline.org/ijca-statistical-data](http://www.ijcaonline.org/ijca-statistical-data), IF – 0.821, ISSN:0975-8887
4. Reena Murali, David Peter S., “siRNA Efficiency prediction using Support Vector Machine”, in *International Journal of Emerging Technology and Advanced Engineering*, New York, USA, Vol. 2 (4), pp. 605-611, April, 2012. [www.ijetae.com](http://www.ijetae.com), IF – 1.932, ISSN:2250-2459
5. Latha R. Nair, David Peter S., “Machine translation systems for Indian languages”, in *International Journal of Computer Applications*, New York, USA, February, 2012  
<http://www.ijcaonline.org/ijca-statistical-data>, IF- 0.821, ISSN for IJCA Digital Library is 0975 - 8887.
6. Latha R. Nair, David Peter S., Renjith P. Ravindran, “Design and Development of a Malayalam to English Translation – A Transfer Based Approach”, in *International Journal of Computational Linguistics*, Vol (3) Issue (1), 2012  
ISSN(online) 2180-1266
7. Sonia Sunny, David Peter S, K. Poulose Jacob, “Discrete Wavelet Transforms and Artificial Neural Networks for Recognition of Isolated Spoken Words”, in *International Journal of Computer Applications*, Vol. 38, No.9, January 2012.  
<http://www.ijcaonline.org/ijca-statistical-data>, IF- 0.821, ISSN for IJCA Digital Library is 0975 - 8887.
8. Sonia Sunny, David Peter S, K. Poulose Jacob, “A Wavelet Based Recognition System for Malayalam Vowels using Artificial Neural Networks”, *International Journal of Computational Linguistics Research*, Vol.1, No.2, pp. 81-87, June 2010.  
**Online ISSN:** 0976-4178
9. Sumam Mary Idicula, David Peter S, “Multilingual Query Processing System using Software Agents” in *Journal of Digital Information Management*, India, December, 2007  
  
ISSN 0972-7272 <http://www.scimagojr.com/journalrank.php> IF 0 .2
10. Sumam Mary Idicula, David Peter S, “A Morphological Processor for Malayalam Language”, *South Asia Research Journal* Vo1 27.2, Sage Publications U.K, July 2007.  
  
ISSN 0262-7280 <http://www.scimagojr.com/journalsearch.php?q=0262-7280&tip=iss> If 0.37

11. Sumam Mary Idicula, David Peter S, "A Fault Prediction Model for Object- Oriented Software Systems", *Journal of Computer Sciences Vol. 1.1*, ICFAI University Press, India, July 2007
12. Sumam Mary Idicula, David Peter S, "Prediction of Fault-Prone Classes using Object-Oriented Metrics – an Experience, *International Journal of Computing and Applications* Vol. 1, No.2, published by Serials Publication, India, December 2006 **ISSN: 0973-5704**
13. Sumam Mary Idicula, David Peter S , "Development of a Prototype of a Frame-Based System for the Understanding of Malayalam Language – an Experience, **VIVEK** Vol.13., No.2, a quarterly in AI published by NCST, India, April 2000.
14. Sumam Mary Idicula, D.H.Premod, David Peter S, "A Simulated Neural Network for Autonomous Vehicle Guidance", *Modelling, Measurement & Control*, Vol.8, No.2. pp 23-30, AMSE Press, France, 1993.  
ISSN: 12595969 <http://www.scimagojr.com/journalsearch.php?q=28515&tip=sid> IF 0.05
15. P.Santha, T.P.Shyne, S David Peter, "Handwritten Character Recognition – An Experience", *CSI Journal on Computer Science and Informatics*, Vol 21, No.2, December 1991, pp 3-8.  
ISSN 2277-6702

## **B. International Conferences/Seminars**

1. Sonia Sunny, David Peter S., K. Poulouse Jacob, "Adaptive Smoothing of wavelet Denoising for an Enhanced Speech Recognition System" in the Proceedings of seventeenth International Conference on Image Processing, Computer Vision and Pattern Recognition, Niveda, USA, held during July 21-24, 2013, pp 795-800
2. Latha R. Nair, David Peter S, "Shallow Parser for Malayalam Language using Finite State Cascades", in the proceedings of 4<sup>th</sup> International Congress on Image and signal processing (CISP), held in October 15 – 17, 2011, Shanghai, China, pp.2464-2467.
3. David Peter S., Sumam Mary Idicula, Poulouse Jacob K., "A Study on the Complexities Involved in a Multiparty IT Outsourcing Environment" in the proceedings of the 4<sup>th</sup> International Conference on Information Science, Technology and Management, held in July, 2006 at Chandigarh, India.
4. David Peter S, Sreela Sasi, Poulouse Jacob K., "Analyzing and Modeling a Multiparty Outsourcing Environment" in the Proceedings of the WORLDCOMP'06 International Conference on e-Learning, e-Business, Enterprise Information System, e-Government and Outsourcing held in June 2006 at Nevada, USA .
5. David Peter S, Sumam Mary Idicula, Poulouse Jacob K., "Design and Development of a performance Evaluation Tool for an IT Organization" in the Proceedings of the International Conference ADCOM-2005 held in December 2005 at Coimbatore, India
6. Sumam Mary Idicula, David Peter S, "Intelligent Agent-based Multilingual Information Retrieval System" in the Proceedings of the International CALIBER-2005 on Multilingual Computing held in February 2005 at Cochin, India.
7. David Peter S, Sumam Mary Idicula, K.Poulouse Jacob , "Information Systems Management: Modeling a Multiparty Outsourcing Environment" , in the Proceedings of the International Conference on Advanced Computing and Communication, December 2004 at Ahmedabad, India.

8. Jayababu G, David Peter S, Sumam Mary Idicula, “An Empirical Validation of the Cohesion Measure Based on Member Connectivity for Object-oriented classes” in the Proceedings of the 2004 International Conference on Software Engineering and Practice ,held in June 2004 at Nevada, USA .
9. Manju G, Sumam Mary Idicula, David Peter S, “Distributed Interactive Simulation using Multimodal Interfaces –an Experience” in the Proceedings of the 2004 International Conference on Modeling, Simulation and Visualization methods, held in June 2004 at Nevada, USA .
10. Sumam Mary Idicula, David Peter S., K. Poulouse Jacob, "Multi Modal Interface for Human-Computer Interaction- an Experience “ in the Proceedings of the International Conference on AI in Engineering & Technology held in June 2002 at Malaysia.
11. Sumam Mary Idicula, David Peter S , K.Poulouse Jacob, “Development of a Prototype of an Adaptable Frame Based System for the Understanding of South Indian Languages” in the Proceedings of International Conference on Modelling and Simulation held in Spain from 25<sup>th</sup> to 27<sup>th</sup> September 2000.
12. Sumam Mary Idicula, David Peter S , K.Poulouse Jacob, “Development of an Interpreter that Translates Queries in Malayalam Language to SQL”, in the Proceedings of 3<sup>rd</sup> International Workshop on Information Retrieval with Asian Languages IRAL '98, pp 77-85, Singapore, 1998.
13. David Peter S, K.Poulouse Jacob, “A PC Based Flexible Control Approach for CNC Machines”, in the Proceedings of the 1<sup>st</sup> Bahrain International Conference on Computers in Industry, Bahrain, 1995, pp 364-371.
14. Sumam Mary Idicula, P.Geetha, David Peter S, “A Connectionist Approach for Character Recognition”,in the Proceedings of International Conference on Innovative Applications in Computing, Tata McGraw-Hill, New Delhi, 1993.

### **C. National Conferences/Seminars**

1. Latha R Nair, David Peter S., “Development of a Rule Based Learning System for Splitting Compound Words in Malayalam Language”, IEEE Recent advances in Intelligent Computational systems (RAICS), held in September 22-24, 2011, at Trivandrum, India, pp. 751-755.
2. Sumam Mary Idicula, David Peter S , “An Intelligent System on Document Indexing”, in the Proceedings of National Seminar on Changing Trends in Library and Information Science, Cochin, India, Jan 8-9, 1998.
3. David Peter S, “DANITS - An Intelligent Tutoring system for Database Normalization”, in the Proceedings of the National Seminar on Computers and Education, Trivandrum, 1991, pp 23-25.

### **List of Government sponsored short-term courses attended**

1. Participated in the short-term course sponsored by Director of Technical Education, Govt. of Kerala on ‘Real-time and Embedded Systems’, at Rajiv Gandhi Institute of Technology, Kottayam, during 9<sup>th</sup> to 21<sup>st</sup> February, 2004 (Two weeks)
2. Participated in the short-term course sponsored by AICTE on ‘Emerging trends in Bioinformatics and Biologically inspired Computing’, at College of Engineering, Munnar, during 19<sup>th</sup> November – 1<sup>st</sup> December, 2007 (Two weeks)
3. Participated in the short-term course conducted by National Institute of Technical Teachers’ Training and Research, Chandigarh (Govt. of India) on ‘Intellectual property rights and patent systems in India’, during 15<sup>th</sup>– 19<sup>th</sup> September, 2008 (One week)
4. Participated in the short-term course conducted by National Institute of Technical Teachers’ Training and Research, Chennai on “Institutional Development and Excellence” during 09-02-2010 to 11-02-2010 (One week)

## **I Other short-term courses/training programmes attended**

### **A. International**

1. Participated in the course on ‘Service Level Management’ conducted by Pink Elephant, Reading, UK, from 16<sup>th</sup> to 18<sup>th</sup> August, 2000
2. Participated in the course on ‘IT Service Management Essentials’ conducted by Pink Elephant, Reading, UK, from 7<sup>th</sup> to 9<sup>th</sup> August, 2000
3. Participated in the Workshop on ‘Management, Control and Maintenance of Information Systems’ at Delft University of Technology, The Netherlands, during 18<sup>th</sup> to 21<sup>st</sup> July, 2001
4. Participated in the Course ‘Teaching and Learning in Higher Education’ conducted by Technical University of Eindhoven, The Netherlands, during 12<sup>th</sup> to 15<sup>th</sup> February, 2002
5. Participated in the course on ‘Project Management’ at Management Development Foundation, Ede, The Netherlands, during 9<sup>th</sup> to 20<sup>th</sup> September, 2002
6. Participated in the workshop on ‘Presenting Scientific Research’ at the Institute of Technology and Communication, Delft University of Technology, The Netherlands, during October, 2003

### **B. National**

1. Participated in the Workshop on ‘Industry Oriented Software Engineering’ conducted at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore from 27<sup>th</sup> to 29<sup>th</sup> December, 2000
2. Participated in the Short-term course on ‘Introduction to Capability Maturity Model’ conducted at Bangalore by SEI, Carnegie Mellon University, USA during 7<sup>th</sup> to 9<sup>th</sup> January, 2002
3. Participated in the training programme on ‘Web design and Management’ conducted by Electronics Research and Development Centre of India, Trivandrum during 8<sup>th</sup> April to 25<sup>th</sup> July, 2002
4. Participated in the short-term training programme on Microsoft .NET held at Cochin University of Science and Technology, Cochin, during 19<sup>th</sup> to 23<sup>rd</sup> December, 2005



## **Role of David Peter S. in the establishment/development of the Centre for Information Resource Management**

Dr. David Peter S., was involved in the implementation of the INFOCUS project since August 1998. He was instrumental in coordinating the activities of campus wide networking. He also provided necessary support for the implementation of the various sub-projects under the INFOCUS main project as well as the associated projects viz., AcLAN, Y2K, Voice Communication, etc. David Peter played a major role in the following activities:

- Setting up of an Information Resource Management (IRM) Centre for the maintenance & upkeep of the IT infrastructure.
- Procuring and installing the necessary IT infrastructure (Hardware and Networking) required for implementing the various sub-projects.
- Co-ordination of activities for the implementation and the maintenance of internet / e-mail facilities for the University community.
- Conducting / Arranging training programmes for different categories of users.
- Providing technical advices / inputs for the system study of the other sub-projects such as FIS, ARIS & HURIS
- Assistance in the purchase of equipments/provision of services for all the sub-projects under INFOCUS project

**Developments/Progress made by School of Engineering under the Principalship of  
Dr. David Peter S., during 2008 – 2012**

**A. Academic**

(i) Improvement in pass-percentage

<b>2007-08</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-2011</b>	<b>2011 - 2012</b>
<b>44.9</b>	<b>48.1</b>	<b>51.7</b>	<b>57.0</b>	<b>66.0</b>

(ii) Improvement in PhDs produced

<b>2007-08</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-2011</b>
<b>2</b>	<b>4</b>	<b>10</b>	<b>9</b>

(iii) Improvement in Research Publications

	<b>2007-08</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-2011</b>
<b>Journals</b>	<b>17</b>	<b>16</b>	<b>31</b>	<b>29</b>
<b>Conference</b>	<b>16</b>	<b>22</b>	<b>23</b>	<b>12</b>

(iv) Obtained Extension of AICTE Approval for all programmes conducted in School of Engineering successfully (- resolved all pending issues with AICTE)

(v) Obtained AICTE approval for starting two new PG programmes

(a) MTech in Geotechnical Engineering

(b) MTech in Mechanical Engineering (Thermal Engineering specialization)

(v) Applied for UGC Academic Autonomy status

(vi) SOE was selected by MHRD for TEQIP funding

## **B. Co-curricular**

- (i) Obtained one NSS Unit for School of Engineering
- (ii) Formed a Nature club
  - Planted more than 200 saplings
  - Survival rate > 60%
- (iii) Formed a charity organization named '**Santhvanam**' to help the needy in the campus as well as outside the campus
- (iv) SOE students won the CUSAT Ever-rolling trophy for both Athletics as well as Games
- (v) SOE students were the Runner-up in the CUSAT Arts festival 'Sargam'
- (vi) SOE students organize a Tech-Fest 'Dhishna' every year.

## **C. Campus Development**

- (i) Prepared a Master plan for SOE Main Campus
- (ii) Secured the Main Campus by closing all unauthorized openings in the Compound Wall (after a long fight which spanned over three years)
- (iii) Bitumen Roads inside the Main Campus were widened and resurfaced
- (iv) Retaining walls were constructed to protect all buildings/roads against soil erosion
- (v) New Software Engineering Block is nearing completion.
- (vi) Work on the Construction of a new Canteen Building and High level Water-Tank/Ground level tank is in progress (by CPWD)
- (vii) Construction of footpath/proper drains/gutters/check-dams are in progress
- (viii) Proposals were sent to the University to provide All-weather-access to all buildings in the SOE Main Campus.

^^^^^^^^^^^^^^^^^^^^