

# Dr. Suresh K. Damodaran



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Designation	Associate Professor in Electrical and Electronics Engg.
Date of Joining in the present service	09-06-2000
Permanent Address	Kodiampara (H), Minalur P O, Thrissur-680581
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Contact No.	9447002990

## Educational Qualification

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Year	Education
2004	B. Tech (Electrical and Electronics Engg.) from NSS College of Engineering Palakkad, Kerala affiliated to Calicut University.
2006	M. Tech (Power Systems Engg.) from NIT Warangal (AP), India.
2019	Ph. D (Power Systems) from NIT Calicut.

## Experience

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Industrial 4 years	2 years at Kerala State Construction Corporation Ltd. Cochin. 2 years at Travancore Titanium Products Ltd. Trivandrum
Teaching 19 years	15 years - Assistant Professor 4 years - Associate Professor

## Area of Interest

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Teaching	Power System Analysis, Power Generation Transmission Distribution, Switch Gear and Protection, Distributed Generation and Smart Grid, Power System Operation and Control, Computer Analysis of Power System.
Research	Power System Operation and Control, Economic Operation and Management of Power System, Distributed Generation and Smart Grid.

## Paper published in Journals

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1. Suresh K. Damodaran and T. K. Sunil Kumar, "Optimal Environmental Economic Dispatch Using a Classical Technique," *International Review of Automatic Control (IREACO)*, vol. 7, no. 3, May 2014, pp. 300-306
2. Suresh K. Damodaran and T. K. Sunil Kumar, "Combined Economic and Emission Short-Term Hydrothermal Scheduling using Particle Swarm Optimisation," *International Review of Electrical Engineering (IREE)*, vol. 10, no. 3, May-June 2015, pp. 434-441
3. Suresh K. Damodaran and T. K. Sunil Kumar, "Hydro-Thermal-Wind Generation Scheduling considering Economic and Environmental factors using Heuristic Algorithms," *Energies*, 2018, vol.11, no. 353, Feb. 2018, pp. 1-19.

## Paper published in Conferences

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1. N. Subramanyam and Suresh K. Damodaran, "Particle Swarm Optimization for Combined Emission and Economic Dispatch Problem Considering the Generator Constraints", *National Power System Conference, IIT Roorkee, 2006*.
2. C. Ismayil, K. Anu Sunny and Suresh K. Damodaran, "Genetic Algorithm Based Controller Tuning for Load Frequency Control in Two Area Power Systems", *1st National Conference IEEE-'09. 23rd January, MPNMJEC, Chennimalai, Erode*
3. C. Ismayil, Jisha M. and Suresh K. Damodaran, "Application of Particle Swarm Optimization for the turning of PID Controller in AVR System", *National Conference on Power, Instrumentation, Control and Computing PICC 2010, GEC, Thrissur*.
4. Suresh K. Damodaran and T. K. Sunil Kumar, "Combined Economic and Emission Dispatch Using a Classical Technique," *3rd International Conference on Advances in Control Optimization of Dynamical Systems 2014, 13 - 15 March 2014, IIT Kanpur (IFAC-Papers Online, vol.3, Part 1, pp. 049-1053)*.
5. Suresh K. Damodaran and T. K. Sunil Kumar, "Economic and Emission Generation Scheduling of Thermal Power Plant Incorporating Wind Energy," *IEEE Region 10 Conference (TENCON), Malaysia, November 5-8, 2017*
6. Kalyani R., Suresh K Damodaran, "Efficient operation of distribution system using optimal DG placement," *International Conference on Intelligent Computing and Control Systems, Madurai, India, India, 15-17 May 2019*

## Short-term Training / Faculty Development Programs Coordinated

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1. Digital Signal Processing and its Applications, from 01-03-2007 to 14-03-2007, at GEC Thrissur, Sponsored by DTE Kerala
2. Renewable Energy and Distributed Generation, from 14<sup>th</sup> to 18<sup>th</sup> March 20016, at GEC Wayanad, Under TEQIP - II

## Short-term Training / Faculty Development Programs attended

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1. "Energy Audit and control", from 20-11-2000 to 4-12-2000, at GEC Thrissur, Sponsored by DTE Kerala.
  2. "Recent Developments in Power System Operation and Control", from 19<sup>th</sup> to 1<sup>st</sup> Feb. 2004, at GCE Kannur, Sponsored by DTE Kerala
  3. "Digital Signal Processing and its Applications", from 01-03-2007 to 14-03-2007, at GEC Thrissur, Sponsored by DTE Kerala
  4. "Power Quality Issues and Solutions", from 11<sup>th</sup> to 23<sup>rd</sup> June 2007, at NIT Calicut, Sponsored by AICTE
  5. "Tools and Techniques for Modeling and Design of Systems", from 20-02-2008 to 04-03-2008, at GEC Thrissur, Sponsored by DTE Kerala
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6. "Advance Network Design and Administration of Open Source Systems", from 12<sup>th</sup> to 17<sup>th</sup> Oct. 2009, at GEC Thrissur, Sponsored by DTE Kerala
  7. "Green Environment", from 01-03-2007 to 14-03-2007, at GEC Thrissur, Sponsored by DTE Kerala
  8. "Smart Grid Engineering", from 22<sup>nd</sup> to 4<sup>th</sup> 23<sup>rd</sup> June 2011, at NIT Calicut, Sponsored by MHRD-AICTE
  9. "Research Methodology in Science and Engineering Management", from 26<sup>th</sup> to 28<sup>th</sup> d Sep. 2013, at NIT Calicut, Sponsored by ISDR
  10. "New Paradigms in Technical Teacher Training: Motivate Challenge and Innovate", on 5<sup>th</sup> Oct. 2013, at GEC Thrissur, Sponsored by CDC Kerala.
  11. "Advance Optimization Techniques in Chemical Process Industries", from 18<sup>th</sup> to 19<sup>rd</sup> April 2015, at NIT Calicut, Sponsored by TEQIP
  12. "Hands on Training on System Design using NI Lab VIEW", from 29<sup>th</sup> to 4<sup>th</sup> 2016, at GEC Thrissur, Sponsored by TEQIP- II.
  13. "Renewable Energy and Distributed Generation", from 14<sup>th</sup> to 18<sup>th</sup> March 2016, at GEC Wayanad, Under TEQIP- II
  14. "Renewable Energy-Solar PV System", 11<sup>th</sup> January 2007, at CIAL Academy, Angamaly
  15. Advancements in Power Systems and Power Electronics from 16 to 19 October 2019 at GEC Kannur, Sponsored by DTE Kerala.
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