


Name	Dr.JACKSON DANIEL	
Qualification	B.E., M.Tech., Ph.D	
Specialization	B.E- Instrumentation&Control Engineering, M.Tech- Biomedical Engineering, Ph.D.- Non-Destructive Evaluation	
Designation	Professor & Head	
Date of Joining the Institution	07/06/1999	
Teaching Experience	19 years 5 months	

Funded Project Work Undertaken

S.No.	Name of the Project and Funding Organization	Duration with Years	Amount Sanctioned	Responsibility
1.	“Development of Hall Sensor array based Magnetic Flux Leakage (MFL) system for non- destructive imaging and evaluation of localized defects in ferromagnetic steam generator tubes” Board of Research in Nuclear Science(BRNS)	2011 – 2014 3 Years	Rs. 23,44,750/-	Co-Investigator

List of IPR Filed (Application Number with Date)

1.	“Coconut Grading Machine” [Application No. :201841037695 A , Date :05/10/2018]
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List of International Journal Publications (Pl mention: IF, Citation, DOI, URL Annexure with S.No.)

1.	“Characterization of Defects in Magnetic Flux Leakage Images”, International Journal of Computer Applications, 3, pp :16-20, 2011, ISSN 0975 -8887
2.	“Defect detection in Ferro magnetic material using Magnetic Flux Leakage Image Processing”, International Journal of Applied Engineering Research, Vol. 10, No. 19 , pp. 14951-14956 , 2015, ISSN 0973-4562.
3.	“Krawtchouk Moment based characterization of defects in Magnetic flux leakage (MFL) images”, International Journal of Applied Engineering Research, Vol. 10, No. 20, pp.15593-15597, 2015, ISSN 0973-4562.
4.	“Magnetic Flux Leakage (MFL) based Defect Characterization of Steam Generator Tubes using Artificial Neural Networks”, Journal of magnetics, Vol. 22, No. 1, 2017, pp. 34-42, ISSN 1226-1750
5.	“Development of magnetic flux leakage measuring system for detection of defect in small diameter steam generator tube”, Measurement, vol. 95, 2017, pp. 273-279, ISSN 263-2241.
6.	“Detection and Classification of Discontinuities using Discrete Wavelet Transform and MFL Testing”, Materials Evaluation, vol. 76, No.6, pp. 710-715, 2018, [IF 0.33]

List of National/International Conference Publications (Conference Name, Place, Year With Date & Month, Publication Detail, Doi)

S.No.	Title of the Paper	Title of the Conference	Organizer	Date/ Month & Year	National/ International
1	" Hand Written Tamil Character Recognition Using Zernike Moments"	UGC Sponsored National Conference – NCCIT 2001	The ThassimBeevi Abdul kader College for women, Kilakarai	Sep. 2001	National
2	An unconstrained Hand Tremor Measurement - A Novel Approach"	NESS-02	PSG College of Technology, Coimbatore	March 2002	National
3	GSR Analysis of Hypnotic Analgesia	ICIS'07	DMI College of Engineering, Chennai.	19th Jan 2007	
4	"An Empirical mean approach for objective pain measurement using dermal and cardiac parameters"	13 th International Conference on " Biomedical Engineering"	Nanyang University of Singapore	3-6, Dec. 2008	International
5	Certain Studies on Thresholding based Defect Detection Algorithms for Magnetic Flux Leakage Images	IEEE International Conference on Emerging Trends in Computing, Communication and Nanotechnology	Infant Jesus College of Engineering	Jan 2013	International
6	Characterization of Defects In Magnetic Flux Leakage Images	International Conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing	Karunya University	1 st & 2 nd March 2013	International
7	Characterization of defects in Magnetic Flux Leakage (MFL) images using wavelet transform and neural network	International Conference on Electronics and Communication Systems (ICECS)	Karpagam University, Coimbatore	13 th &14 th Feb 2014	International
8	Comparison of segmentation techniques for detection of defects in non-destructive testing images	International Conference on Electronics and Communication Systems (ICECS)	Karpagam University, Coimbatore	13 th &14 th Feb 2014	International

List of National/International Conference Publications (Conference Name, Place, Year With Date & Month, Publication Detail, Doi)

S.No.	Title of the Paper	Title of the Conference	Organizer	Date/ Month & Year	National/ International
9	Defect Detection in Ferromagnetic Material Using Magnetic Flux Leakage (MFL) Image Processing	IEEE sponsored 2 nd International Conference on Innovations in Information , Embedded and Communication systems	Karpagam University, Coimbatore	19 th & 20 th March 2015	International
10	Krawtchouk Moment-Based Characterization of Defects in Magnetic Flux Leakage(MFL) Images	IEEE sponsored 2 nd International Conference on Innovations in Information , Embedded and Communication systems	Karpagam University, Coimbatore	19 th & 20 th March 2015	International
11	Detection and classification of defects in steam generator tube using magnetic flux leakage Imaging	International Conference on Emerging Trends in Engineering and Technology	Arunachala College of Engineering and Technology for women	9 th & 10 th December 2016	International

Workshops/Seminars/Conferences/Training Programmes Organized (Mention Sponsored Detail With Amount)

S. No.	Name of the Programme & Venue	Dates with Duration	No. of Participants	Responsibility
1	A One-day workshop on 'Virtual Instrumentation'	May 2004	50	Coordinator
2	National Seminar on "Biomedical Engineering" (AMER'08)	28 th and 29 th March 2008	35	Coordinator
3.	National Conference "REcent Trends in Instrumentation Application" RETINA'09	19 th & 20 th March 2009	40	Co-coordinator
4.	National Seminar on "Biomedical Engineering" (AMER'11)	17 th to 19 th March 2011	40	Coordinator
5.	Research Issues on Non Destructive Evaluation RINDE'13	19.09.2013 to 21.09.2013	50	Coordinator
6.	REcent Trends in Instrumentation Application RETINA'15	19 th to 21 st Sep 2013	30	Coordinator

Faculty Interaction with Outside World**Workshops/Seminars/Conferences/Training Programs Attended/ Industrial Know How/ Bos, Academic Council Member/ Resource, Chair Person/ Juries**

S. No	Name of the Programme	Seminars/ Workshops/ Symposium	Venue	Date / Month & Year
1	Teacher – Learner Strategy	ISTE Convention	National Engineering College ,K.R.Nagar	26 th Feb 2000
2	Primer Course in Biomedical Engineering”	AICTE Sponsored Short term Training Programme	Applied Mechanics Dept, IIT Madras	31 st May to 5 th June 2004
3	Virtual Instrumentation	Workshop	National Engineering College ,K.R.Nagar	17 th July 2004
4	Industrial Automation Using PLC”	Workshop	National Engineering College ,K.R.Nagar	13 – 15 October 2004
5	High Voltage Testing Techniques – HVTT’06	Workshop	National Engineering College ,K.R.Nagar	26 th May 2006
6	Alternative Medicine and Biomedical Engineering	Conference	IIT madras, Chennai	12 th & 13 th June 2006
7	Ignite the minds of Bio-signal Engineers towards research”.	Workshop	National Engineering College, K.R.Nagar	2 nd October 2007
8	Embedded system design with 8051, PIC, ARM	Workshop	National Engineering College, K.R.Nagar	15 th Dec. 2007
9	Embedded System Design and its Application (ESARP ’08)	Seminar	National Engineering College, K.R.Nagar	19 th & 20 th September 2008
10	Advancements in Medical Engineering Towards Research	ICMR sponsored National Seminar	National Engineering College, K.R.Nagar	28 th & 29 th March 2008
11	Recent Trends in Instrumentation Applications	Conference	National Engineering College, K.R.Nagar	19 th & 20 th March 2009
12	DCS & PLC Overview	Training By M/s YOKOGAWA	National Engineering College, K.R.Nagar	05 th to 09 th October 2009
13	Neural Network and Fuzzy Logic Controller	Workshop	National College of Engineering, Maruthakulam	October 2009
14	Graphical System Design using Lab VIEW for Research and Engineers	Workshop (National Instruments associate with Techlabs)	National Engineering College, K.R.Nagar	11 th to 13 th Nov 2009

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S. No	Name of the Programme	Seminars/ Workshops/ Symposium	Venue	Date / Month & Year
15	Research Issues on Bio-Medical Signal Processing and Instrumentation (RIBSI '10)	DRDO Sponsored Seminar	National Engineering College, K.R.Nagar	24 th – 26 th February 2010
16	Material Characterization Using NDE Technique	Seminar	IGCAR, Kalpakkam	10-12 February 2010
17	Research Issues on Bio medical Signal Processing and Instrumentation	DRDO sponsored National Seminar	National Engineering College, K.R.Nagar	24-26 February 2010
18	Electromagnetic Non-Destructive Evaluation "ENDE-2011"	6th International conference	IIT Madras, Chennai	10 th - 2 th March 2011
19	Advancements in Medical Engineering Towards Research	CSIR sponsored National Seminar	National Engineering College, K.R.Nagar	17-19 th March 2011
20	Advancements in Medical Engineering Towards Research	DRDO sponsored National Seminar	National Engineering College, K.R.Nagar	5 th & 6 th August 2011
21	Novel and Innovative Measurements in Non-Destructive Evaluation (NIM-NDE-2012)	Theme Meeting	IGCAR , Kalpakkam	23-24 February 2012
22	Research Issues on Non Destructive Evaluation (RINDE'13)	BRNS Sponsored Seminar	National Engineering College, K.R.Nagar	19 th -21 st September 2013
23	Quality Initiatives in Technical & Higher Educational Institutions (in Compliance with NBA & NAAC Accreditation)	Workshop	Engineering Staff College of India, Hyderabad	11 th -13 th Feb. 2014
24	Training of Evaluators / Resource Persons on Outcome Based Accreditation	Workshop	National Engineering College, K.R.Nagar	07 th June 2014 & 14 th to 16 th June 2014
25	Empowering Indian Engineering Education for Global Expectations	DST Sponsored 17 th ISTE TN & P Section Annual Convention for Faculty members	National Engineering College, K.R.Nagar	07 th & 08 th November 2014
26	National Programme on Technology Enhanced Learning, IITM	NPTEL Workshop	National Engineering College, Kovilpatti	24 th April 2015

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S. No	Name of the Programme	Seminars/ Workshops/ Symposium	Venue	Date / Month & Year
27	Technical communication	Two-week ISTE STTP-National Mission on Education through ICT (MHRD)	Indian Institute of Technology, Bombay at Regional Office, Anna University, Tirunelveli.	30 th November 2015 to 05 th December 2015 08 th October 2015 to 11 th November 2015
28	Introduction to Research	Successfully completed NPTEL online 10 hours course with elite certificate on	IITM, Funded by the Ministry of HRD, Govt. of India	January – February 2016.
29	3 rd World Summit on Accreditation	International Conference	NBA, New Delhi Venue: The Leela Ambience, Gurgaon	19 th & 20 th March 2016
30	Technology Enabled Teaching Learning Process	Quality Improvement Programme	National Engineering College. Conducted by National Institute of Technical Teachers Training & Research	27 th to 29 th May 2017
31.	Research perspectives and Challenges in Instrumentation aspects of IoT	AICTE sponsored, National Seminar	National Engineering College.	25 th to 27 th October 2017
32.	MEMS based sensors fabrication and characterization	QIP short term course	Indian Institute of Science, Bangalore	12 th Feb to 16 th Feb, 2018
33.	M/s.Nagman Instruments Calibration, M/s. Basell Automation System Pvt. Ltd.,Appasamy Associates,M/s.TREND Instrumentation and Automation Pvt.Ltd. and M/s. R&D Instrument Services, Chennai	Industry know how -Industrial visit	Chennai	18.08.2017 & 19.08.2017

Specific Achievement(S) Awards/ Reviewers For Journals

1	Acted as mentor for the New Gen IEDC project funded (Rs. 2,50,000/-) by The National Science & Technology Entrepreneurship Development Board (NSTEDB), DST Developed Prototype product :“Coconut Qualifier”.
2	Reviewer : Elsevier : ‘Measurement’ Journal of the International Measurement Confederation
3	Reviewer : Taylor & Francis : ‘ Non-destructive Testing and Evaluation’

Membership Details

1.	ISTE – Life Member
2.	IE(I) -Life member