

## Profile

Name: **Dr. D. F. JINGLE JABHA**

Designation: **Associate Professor**

Qualification: **M.E., Ph.D.,**



She Obtained B.E Degree in **Electrical and Electronics Engineering** from **Noorul Islam College of Engineering** during 1998 with **First Class** and completed her **M.E Degree in Power Electronics and Industrial Drives** from **Sathyabama Institute of Science and Technology** with **First Class**. She obtained her Ph.D in the area of **Power system** during 2018 from Anna University, Chennai.

**Title of the Thesis: Failure Prediction of Insulation Degradation in High Voltage XLPE Power Cables using Non Destructive Testing Techniques.**

**Area of interest:** NDT, POWER CABLES, ACOUSTIC EMISSION

### **Achievements:**

- Received Approval from Anna University during 2018 for guiding Ph.D/M.S students (Ref.No.3130030).
- Best Session Award in NDE 2016.

**Date of joining:** 12.03.1999

**Experience:** 23 YEARS (as on Feb 2022)

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**Professional Bodies:** NITTSD, AICTSD

### **WORKSHOP ATTENDED:**

1. “PCE Designing and Manufacturing with Electronic Fundamentals” at C.S.I.Institute of Technology,Thovalai.

2. 9-03-2007 & 10-03-2007- Workshop on “Pipe Faculty win kit” at C.S.I.Institute of Technology,Thovalai.
3. 26-03-2012- One day workshop on MATLAB for Research and Analysis conducted by International Foundation of Research and Analysis (INFRA),Bangalore at C.S.I.Institute of Technology,Thovalai.
4. 8-6-2012 – One day seminar on “Support Vector Mechanics” at National Institute of Technology, Tiruchirappalli.
5. 11-11-2013- One day workshop on sensitize the management and teachers of technical institutions to tackle the menace of sexual crime against women at TCE, Madurai.
6. 05-12-2013- One day workshop on “Research Methodology in Science and Engineering” Sri Vellappally Natesan College of Engineering, Kerala.
7. 08-05-2014 to 10-05-2014- Three days workshop on “MATLAB-SIMULINK programming and Recent optimization Techniques” sponsored by IET held at C.S.I.Institute of Technology,Thovalai.
8. 23-03-2016- One day workshop on “Dspace-Real time systems” at Thiagarajar College of Engineering, Madurai.

**FACULTY DEVELOPMENT PROGRAMME ATTENDED :**

1. 21-11-2005 to 3-12-2005 – Two week FDP on “Power Electronics” sponsored by Anna University at Noorul Islam college of Engineering, Kumaracoil.
2. 11-12-2006 to 23-12-2006 – Two week SDP on “Soft Computing Techniques for Controls Design” sponsored by AICTE at Noorul Islam college of Engineering, Kumaracoil.

**SHORT TERM TRAINING PROGRAMME ATTENDED :**

1. 17-06-2014 to 20-06-2014 – “Classical and Digital control design with MATLAB/SIMULINK” at Indian Institute of Space Science and Technology, Thiruvananthapuram.

2. 27-4-2015 to 30-05-2015 – Two week ISTE STTP on “Design of Algorithms” conducted by IIT Kharagpur at St.Xaviers Catholic College of Engineering, Chunkankadai.
3. A short term course on “Core Java” organized by Silicon Software Services, Madurai at C.S.I.Institute of Technology,Thovalai,2015.

#### **PAPER PUBLISHED IN THE PROCEEDINGS OF NATIONAL CONFERENCE:**

Jingle Jabha D.F., Selvi K., Krishna Priya. R “ Analysis of Transmission line parameters of Single and Three core XLPE Cables”, Proceedings of Advances in Engineering Techniques, NCAIET-2K15, Sri Vellappally Natesan College of Engineering, Kerala on 20-02-2015.

#### **PAPER PUBLISHED IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCE:**

1. Joselin.R., Chelladurai.T, Usha.K.M, Vasudev.E.S, **Jingle Jabha D. F** - 3<sup>rd</sup> International conference on “Recent Advances in Material Processing Technology” titled “Development of a NOL Ring test to Study Glass/Epoxy Specimens Degradation and its Implementation on Pertinent Pressure Vessels”. RAMPT’13, Kovilpatti, pp: 1-7 on 07-01-2013 to 09-01-2013.
2. Jingle Jabha D.F., Selvi K., Suresh.S. “ Determination of Partial Discharge in Power cables using Artificial Neural Network” Proceedings of Emerging Trends in Engineering and Technology,ETET 2014, Travancore Engg. College, Kollam,Kerala, pp.33 on 31-3-2014 & 1-04-2014.
3. Jingle Jabha D.F., Selvi K., Suresh.S. “Partial Discharge diagnostics and Analysis for Insulation Failure in High Voltage Power Cable” Proceedings of Recent trends in Engineering and Technology association with IEEE Madras section held at C.S.I.Institute of Technology,Thovalai,2015.
4. Krishna Priya. R., Jingle Jabha D.F., Selvi K.,“ Denoising of PD signals Using Wavelet Transform method” proceedings of International conference on Electrical, Electronics, Computing and Instrumentation, Rajas Engineering College, Vadakkangulam on 12-3-2015.

5. Jingle Jabha D.F., Selvi K., Joselin R. “Analysis of Transmission line parameters of Single and Three core XLPE Cables” Proceedings of Recent Advances in Materials, ICRAM-15, Anna University: BIT Campus, Tiruchirappalli on 16,17- Oct 2015.
6. Jingle Jabha D.F., Selvi K., Joselin.R. “Determination of Tensile Strength in XLPE Power Cables Using Acoustic Emission Technique”, Proceedings of International conference on Current research topics in Power Nuclear & Fuel Energy, ICRTEST, Hyderabad on Oct. 25-27, pp.320-325, 2016.
7. Jingle Jabha D.F., Selvi K., Joselin.R. “Prediction of Partial Discharge in Under Ground Power Cables Using Artificial Neural Network”, Proceedings of International conference on Emerging Trends in Engineering and Technology, ICETET 2K16, Manavilai on Dec. 9-10, p.14, 2016.
8. Jingle Jabha D.F., Selvi K., Joselin.R., “Determination of Tensile Strength and Dielectric Strength in XLPE Power Cables using Acoustic Emission Technique” NDE 2016 at Thiruvananthapuram, Dec.15-17, pp.162-168, 2016.
9. Joselin.R., Jingle Jabha D.F. “Failure Prediction of Carbon/Epoxy Specimens Using NOL Ring Test And Acoustic Emission Technique” NDE 2016 at Thiruvananthapuram, Dec.15-17, pp.169-177, 2016.
10. **JOSELIN.R.**, Jingle Jabha D.F. “Analytical Approach on Failure Pressure Estimations of GFRP Pressure Vessels” International Conference on Technological Advancements In Mechanical Engineering, ICTAME 2021, AMET University, Chennai, June.15-16,2021, ISBN: 978-93-85434-93-8.

### **INTERNATIONAL JOURNALS**

1. Joselin.R., Chelladurai.T, Usha.K.M, Vasudev.E.S, Jingle Jabha D. F “Development of a NOL Ring test to Study Glass/Epoxy Specimens Degradation and its Implementation on Pertinent Pressure Vessels”. *Journal of Manufacturing Engineering*-Vol.8, Issue 4, pp.254-261, Dec 2013.

2. Jingle Jabha D.F., Selvi K., Joselin R. “Analysis of Transmission line parameters of Single and Three core XLPE Cables” *Journal of Chemical and Pharmaceutical Sciences*, Vol.1, Issue.11, pp.178-180,2015.
3. Jingle Jabha D.F., Selvi K., Joselin R. “A new Approach for the failure prediction in XLPE power cables using Acoustic Emission Technique”, **Electrical Power and Energy Systems, Elsevier**, Vol.81, pp.336-345, 2016.
4. Jingle Jabha D.F., Selvi K., Joselin.R.” Investigation of Partial Discharge in Powers Using Artificial Neural Network and PD analyzer” **Journal of Electrical Engineering**, Vol.16, Edition.3, pp.430-437,2016.
5. Jingle Jabha D.F., Selvi K., Joselin.R., “Determination of Tensile Strength in XLPE Power Cables Using Acoustic Emission Technique” **Energy Procedia, Elsevier**, pp.320-325,2016.
6. Jingle Jabha D.F., Selvi K., Joselin R. “A Strategy to Determine Partial Discharge in XLPE Power Cables Using Acoustic Emission Detection Technique”, **Journal of Testing and Evaluation, ASTM International**, Vol.46, No.1, 2018.
7. Jingle Jabha D.F., Selvi K., Joselin R. “Investigation of Partial Discharge in Power Cables Using Acoustic Emission Technique- A review”, *Journal of Electrical Engineering*, – Communicated.
8. Jingle Jabha D.F., Selvi K., Joselin R. “Online monitoring and failure prediction of XLPE Power Cables Using Acoustic Emission Detection Technique”, *Electrical power components and systems*, **Taylor and Francis**- Revision submitted.

### **NATIONAL JOURNALS**

1. R.Joselin, T.Chelladurai, M.Enamuthu ,K.M.Usha, E.S. Vasudev, D.F.Jingle Jabha “A Mathematical Approach on Failure Pressure Estimations of GFRP Pressure Vessels” *Journal of Advances in Mechanical Engineering Science*, Vol.1, No.2, pp.33-37,2015.

2. R.Joselin, D.F.Jingle Jabha “Characterisation of Alkali Treated Coir Fibre Composites” Journal of Advances in Civil Engineering, Vol.1, No.2, pp.1-7, 2015.