

FACULTY PROFILE

Name of the faculty

Dr. K.N. RAVI

Designation

PROFESSOR & HOD

Contact Number

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Educational Qualification

Degree	Specialization	University	Year of Passing
Ph.D	High Voltage Engineering	IISc	1995
M.Tech	High Voltage Engineering	IISc	1981
B.E	Electrical Engineering	BU	1978

Work Experience

Teaching	Research	Industry
13	25	--

Publications

National/International Journals	National/International Conferences	Books Authored/Edited
5	4	1

Area of Interest

High Voltage Engineering	Insulation coordination
Pollution Performance of insulators in HVAC and HVDC	Lightening arestors
HVDC insulators	Testing of high voltage insulators
Polymeric Insulators	

Subiect Taught

High Voltage Engineering	Field Theory	Electrical power Utilization
Network Theorems	---	-----

In House Experience

Sl. No	Designation	Period	
		From	To
1	Professor & HOD	06/07/2007	Till Date

Outside Experience

Sl. No	Place of Work	Designation	Period	
			From	To
1	Central power Research Institute	Joint director	1/7/1982	30/6/2007
2	UVCE	lecturer	1/7/1981	30/6/1982

Membership in Professional Bodies/University Bodies/Organization

- IEEE Senior Member

Publications

National/International Journals

1. K. N. Ravi;S. Sudalai Shunmugam; N. Vasudev; K. A. Venkatesh , “Applicability of Dimensional Analysis for the Prediction of Pollution Performance of Insulators: An Experimental Study”, IET Generation, Transmission & Distribution, 2017 volume 11 issue 5, 1751-8687;17518687.
2. K. N. Ravi;S. S. Shunmugam; N. Vasudev, K. A. Venkatesh , “Influence of Profile on the Pollution Performance of Cap-and-Pin Insulators - An Experimental Study”, IEEE Electrical Insulation Magazine, 2016 volume 32 issue 6, 0883-7554.
3. K.N. Ravi, Leela.A.M, “Thermal behaviour of metal oxide surge arrester block”, IJCTA, international science press,2016, p57-63, 0974-5572.
4. K. N. Ravi,Vasudev.N,Nagraj.H.P “Brittle fracture of GRP rod used in polymeric insulators on experimental studies”, International journal of Electrical and Electronics Engineering, IJEEE 2278-994, Volume 7 Issue 2, February –March 2018

National /International Conferences

1. A.K. Mujumdar, K.N.Ravi, N.Vasudev, "pollution test facilities at CPRI", 54th R&D session of CBIP, Ranchi, Bihar, pp 52-55,1988.
2. N. Vasudev, K.N. Ravi, A.K. Mujumdar, C.S. Lakshminarasimha, V.B. Ram mohan," Comparision of quick flashover method with standard test procedure for determining the pollution flashover levels using salt fog method", 6th ISH, New Orleans, USA, Vol. 1, paper No. 12-02, 1989.
3. N. Vasudev, K.N. Ravi, A.K. Mujumdar, C.S. Lakshminarasimha, V.B. Ram mohan,"Field investigation of polluted insulators", 5th NPSC held at CPRI, Bangalore, pp 41-45, 1988.
4. N. Vasudev, K.N. Ravi, A.K. Mujumdar, C.S. Lakshminarasimha, V.B. Ram mohan,"Artificial pollution testing of insulators using solid layer method in tropical countries", Middle East Power System Conference MEPCON- 1989, Cairo, EGYPT, 1989.
5. N. Vasudev, K.N. Ravi, A.K. Mujumdar, C.S. Lakshminarasimha, V.B. Ram mohan,"Breakdown characteristics of rod plane gap under polluted conditions", Second workshop and conference on EHV Technology, I.I.Sc, Bangalore. August 1989.
6. N. Vasudev, K.N. Ravi, A.K. Mujumdar, C.S. Lakshminarasimha, V.B. Ram mohan,"Evaluation of pollution performance of long rod insulators using salt fog method", Second Work shop and conference on EHV technology, II.Sc, Bangalore, Aug 1989.
7. N. Vasudev, K.N. Ravi, A.K. Mujumdar, M.C. Ratra," Break down characteristics of rod plane gap under salt fog for AC and DC voltages", CEIDP Conference, Pensylvania, USA, paper No. 11-6, pp 581-586, 1990.
8. N. Vasudev, K.N. Ravi, A.K. Mujumdar, M.C. Ratra, Channakeshava," Effect of profile on the pollution performance of line and station insulators under polluted conditions for AC voltages", 7th ISH Dresden, Germany, paper No. 44-04, 1991.
9. N. Vasudev, K.N. Ravi, A.K. Mujumdar, M.C. Ratra, Channakeshava,"DC source characteristics for testing insulators under polluted conditions",7th ISH Dresden, Germany. 1991.
10. N. Vasudev, K.N. Ravi, A.K. Mujumdar, M.C. Ratra, Channakeshava," Voltage distribution of string of insulators under DC voltages",7th ISH Dresden, Germany. Paper No. 43-02, 1991.
11. N. Vasudev, K.N. Ravi, A.K. Mujumdar, Channakeshava," Field investigation of polluted insulators", 7th NPSC- Calcutta, pp 43-46, 1992.
12. S. Bossi, G. Carrara, D. Perin, Channakeshava, K. N. Ravi, N. Vasudev, " Results of a salt fog ageing test under DC stress on Cap and pin Glass and Porcelain Insulators", 8th ISH, Yokohama, Japan, paper No. 41-04, 1993.
13. A. K. Mujumdar, K. N. Ravi, N. Vasudev, Channa keshava, " Emperical formula for maximum withstand salinity based on laboratory performance of insulators", 8th ISH, Yokohama, Japan, Paper No. 48-04, 1993.
14. N. Vasudev, A.K. Mujumdar, K.N.Ravi, Channa keshava," Pollution level measurements at various sites energised AC transmission systems", 8th ISH, Yokohama, Japan, Paper No. 48-05, 1993.
15. K.N.Ravi , N. Vasudev, A.K. Mujumdar, Channa keshava," Ageing studies of insulators under AC and DC voltages", IX National Convention of Electrical Engineers, Institute of Engineers (India), Bangalore, Nov. 1993.
16. A.K. Mujumdar, N. Vasudev, K.N.Ravi ,Channa keshava," Pollution test methods for DC voltages using Dust chamber", Paper published in the journal of Society of Power Engineers (India).
17. A.K. Mujumdar, N.Vasudev, K.N. Ravi, Channa keshava, " Study of flashover performance of non-uniformly wet HVDC bushings using mathematical model," 3rd Workshop & Conference on EHV Technology, IISc., Bangalore. pp 188-191, 1995
18. A.K. Mujumdar, N. Vasudev, K.N. Ravi, Channakeshava," Pollution test methods of insulators under DC voltages using dust chamber", 9th International Symposium on High voltage Engineering, University of Graz, AUSTRIA, 1995.
19. K.N.Ravi, N.Vasudev, A.K.Mujumdar, Channakeshava, Design of line insulation for transmission lines, T&D conference Bombay 1996.
20. A.K. Mujumdar, N. Vasudev, K.N. Ravi, Channakeshava," Influence of under rib profile on pollution performance of insulators for DC voltages", 3rd AFRO-ASIAN conference, Kathmandu, Nepal, 4-7th March 1996.
21. N.Vasudev,,K.N.Ravi, P.V.Vasudevan Nambudiri "Performance evaluation of different RTV coated insulators under polluted conditions ", , ISH 2005,Biejing, China
22. K.N.Ravi, .N.Vasudev, P.V.Vasudevan Nambudiri, B.S Dholakia, C.D. Shah "Seasonal Pollution level measurement at 132kV Switchyard of AECo, Ahmedabad, AECo, Ahmedabad, , ISH 2005,Biejing, China
23. N.Vasudev, K.N.Ravi, P.V.Vasudevan Nambudiri, Evaluation of the profile of insulator for the pollution performance Under DC Voltages ISH 2005,Biejing, China
- 24.K.N.Ravi, N.Vasudev, P.V.Vasudevan Nambudiri , Study on Solid layer pollution testing

- 25.K.N.Ravi , N. Vasudev, A.K. Mujumdar et al., " Performance evaluation of insulator string with defective insulators", 10th International Symposium on High Voltage Engineering, Montreal, CANADA, 1997.
- 26.N. Vasudev, K.N. Ravi, N.S. Mohan Rao, " Study of the results of Ion- migration in insulators subjected to DC voltages", Transmission and Distribution 2000, New Delhi, 1997.
27. V.Muralidhara , Dr. Murugan Mudaliar, N. Vasudev, Dr. K.N.Ravi, Dr. Channa keshava, P.Krishna Murthy " Study of ion migration in insulators subjected to DC Voltages", ISH 2003, DELFT , NETHERLANDS
- 28.Dr.N.Vasudev, Dr.K.N.Ravi, P.Krishnamurthy, Dr.Channakeshava "Performance of Polymeric insulators under accelerated ageing under AC& DC voltages", ISH 2003, DELFT, NETHERLANDS
- 29N.Vasudev,K.N.Ravi, P.V.Vasudevan Nambudiri "Performance evaluation of different RTV coated insulators under polluted conditions " , ISH 2005,Biejing, China
- 30.K.N.Ravi, .N.Vasudev, P.V.Vasudevan Nambudiri, B.S Dholakia, C.D. Shah "Seasonal Pollution level measurement at 132kV Switchyard of AECO, Ahmedabad, AECO, Ahmedabad, , ISH 2005,Biejing, China
31. N.Vasudev, K.N.Ravi, P.V.Vasudevan Nambudiri, Evaluation of the profile of insulator for the pollution performance Under DC Voltages ISH 2005,Biejing, China
- 32.K.N.Ravi, N.Vasudev, P.V.Vasudevan Nambudiri , Study on Solid layer pollution testing of insulators by clean water fog wetting. ISH 2005,Biejing, China
- 33.Muthu Kumar,N.Vasudev, K.N.Ravi, P.V.Vasudevan Nambudiri, "Performance of metal oxide surge arrester under polluted conditions" Workshop on EHV transmission system practices and challenges, 15-16 Dec 2005, UHV RL, Hyderabad.
- 33.** K. N. Ravi,Vasudev.N, "VOLTAGE DISTRIBUTION ACROSS A STRING INSULATOR- THEORETICAL AND PRACTICAL STUDY", International Symposium on High Voltage Engineering,, At Buenos Aires, Argentina, August 27 – September 01, 2017.
34. Leela A.m, K.N Ravi, Vasudev.N, Shivkumar aradhya, "Conference: National Conference on High Voltage Engineering & Technology (NCHVET2017), At Central Power Research Institute, Bangalore, India, 27-28 January 2017.
35. K. N. Ravi,Vasudev.N, Muralidara Venkat, "Quality Analysis of Insulators Subjected to HVDC Applications-A Review, "National Conference on High Voltage Engineering & Technology (NCHVET2017) , At Central Power Research Institute, Bangalore, India, 27-28 January 2017.
36. K. N. Ravi,Vasudev.N,Aruna, "The deterioration reaction rate in transformer solid insulation using XRD analysis techniques", National Conference on High Voltage Engineering & Technology (NCHVET2017),At Central Power Research Institute, Bangalore, India, 27-28 January 2017.
37. K. N. Ravi, Shivkumar swamy," Study on Metallized Polypropylene Film Capacitors and its Change in Dielectric Loss due to the Effect of End Connection Quality", National Conference on High Voltage Engineering & Technology (NCHVET2017),At Central Power Research Institute, Bangalore, India, 27-28 January 2017.
38. K. N. Ravi,Vasudev.N,Nagraj.H.P, "Experimental study on surface erosion and brittle fracture of FRP rod in polymeric insulators Experimental study on surface erosion and brittle fracture of FRP rod in polymeric insulators", National Conference on High Voltage Engineering & Technology (NCHVET2017),At Central Power Research Institute, Bangalore, India, 27-28 January 2017.
39. K. N. Ravi," Study on Metallized Polypropylene Film Capacitors and its Change in Dielectric Loss due to the Effect of End Connection Quality", Third International Conference on Current Trends in Engineering Science and Technology ICCTEST-2017.
40. K. N. Ravi Ashwini.A.V, "Evaluation of aging of polymeric insulators by inclined plane test", Kalasilingam University INCOS 17, March 2017.
41. K.N Ravi, Leela A.M, Vasudev.N, Shivkumar aradhya, "Study of High Frequency Characteristics Of Metal Oxide Surge Arrester", 2015 International Conference on Trends in Automation, Communications and Computing Technology (I-TACT-15), At Bangalore, India, Volume: 01, 10.1109/ITACT.2015.7492694, December 2015.
42. K. N. Ravi,S. Sudalai Shunmugam; N. Vasudev; ; K. A. Venkatesh, "Pollution performance of HVAC Insulators: an interpretation using Dimensional Analysis Technique" The 19th International Symposium on High Voltage Engineering, , August, 23 – 28, 2015, At Pilsen, Czech Republic, 10.13140/RG.2.1.1102.8960, August 2015.
43. K. N. Ravi,Sunitha.N.S, "A Study on leakage current characteristics of Polymeric Insulators for different pollution layers" Power and Advanced Control Engineering (ICPACE), 2015 International Conference on, At BNM Institute of technology, 10.1109/ICPACE.2015.7274977, August 2015
44. K.N Ravi,Leela A.M, , Vasudev.N, Shivkumar aradhya, "Study Of Characteristics Of ZnO Surge Arrester", International conference on high voltage engineering, At UHV Research lab, CPRI, Hyderabad, India, 10.13140/2.1.4067.1522, January 2015

