

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Name of The Staff	Dr.R.Murugan
Designation	Professor & Head
Department	Electrical and Electronics Engineering
Educational Qualification	Ph.D
Area of Specialization	High Voltage Engineering
Area of Interest	Finite Element Analysis
Professional Memberships	IET
Email Id	eeehod@msajce-edu.in
Experience	Teaching : 19Years
Research Guidance	Ph.D :2
Subjects Handled	
Under Graduate	<ol style="list-style-type: none">1. Power system protection and Switch gear2. Circuit theory3. Electromagnetic theory4. Electrical Engineering5. Transmission and Distribution6. Control system7. Electric Energy Generation Utilization and Conservation8. Electric Drives and Control
Post Graduate	<ol style="list-style-type: none">1. Electromagnetic field computation and modeling
Publications	

International Journals

1. R.Murugan, Asghar keshtkar, Leila gharib "Effect of current shape on magnetic rail gun design at transient condition" in International Journal of Advanced Engineering Technology Vol. VII/Issue I/Jan. March.,2016/187-192
2. R.Murugan, S.Poorani, Asghar keshtkar, Leila gharib " Realization of B dot probe Positions in 500kj pulsed power supply system using MATLAB simulation" Asian Journal of Research in Social Sciences and Humanities vol7 no.1pp 155-165
3. R.Murugan , T.Preethi "Design and Implementation of Solar Tracker with Optimum Maximum Power Point Tracking for AFV Applications" International Journal of Engineering Science and Computing, vol7 no.5 may2017
4. Murugan, Asghar keshtka,r Leila gharib " Estimation of inductance gradient empirical formula of rails using regression analysis technique" in International Journal of Advanced Engineering Technology Vol. VII/Issue I/Jan. March.,2016/607 -610
5. R.Murugan M.N.Saravanakumar "Effective Analysis On Metal -Metal Contact On C-Shaped armature Rail Interface" International Journal of Innovative Research in Science,Engineering and Technology Vol. 5, Issue 2 February2016
6. R.Murugan, S.Poorani "Derivation of Empirical formula of Inductance Gradient
7. Of Rails for circular bore geometry using regression analysis technique" International Journal of Applied Engineering Research Volume 10, Number 2 (2015) pp. 4741-4750 (Annexure II)
8. R.Murugan S.Poorani "Analysis of Performance of PSO Based Fuzzy Controller for 4 Phase SRM Motor Indian journal of science and technology vol 8 (12), pp. 1-7 June 2015
9. R.Murugan S.Poorani "A Non-Linear Controller for Forecasting the Rising Demand for Electric Vehicles Applicable to Indian Road Conditions" International Journal of Electrical and Computer

Engineering (IJECE) vol 6 pp2274-2280
2016

10. C.Gopinath R.Murugan "A Novel Load Side Compensation for Voltage Sag / swell Using Dynamic Voltage Restore r" Pensee Journal Vol 75, No. 9;Sep 2013
11. Murugan, R. and Udayakumar, K. "Electromagnetic - thermal analysis of rail gun using finite element analysis technique", European Journal of Scientific Research, Vol. 43, Issue 3, pp. 275-279, March 2010.
12. R.Murugan, Asghar keshtkar, Leila gharib "Design of 500kj Pulsed power supply system for electromagnetic rail gun using PSPICE simulation" in Indian journal of science and technology vol 8 (12), pp. 1-7 June 2015
13. R.Murugan, S.Preethi " Realization of Pulse forming Network for Electromagnetic Launcher system" International Journal of Applied Engineering Research Volume 10, Number 6 (2015) pp. 5101-5106(Annexure II)
14. R.Murugan, S.Poorani " Analysis of performance of PSO based Fuzzy logic controller for 4 phase SRM motor " in Indian journal of science and technology vol 8 (11), pp. 1-6 June 2015
15. G.Rajalakshmi .R.Murugan "Improving Energy Efficiency By Choosing Appropriate Nano-Particles For Enabling Solar Vapor Generation" International Journal of Applied Environmental Sciences vol 10 pp.773-783 2015
16. G.Rajalakshmi .R.Murugan "Generation of Electricity from Nano-Solar Vapour" International Journal of scientific engineering technology research vol 10 pp.1964-1968 2016
17. .R.Murugan c.Aksay "Flood Monitoring System Using Microcontroller (pic18f45k22) With effective Implementation of Embedded C "International Journal of Advance Research, Ideas and Innovations in Technology vol3 no2 2017.

International Conference	<ol style="list-style-type: none"> 1. R.Murugan, S.Preethi “ Realization of Pulse forming Network for Electromagnetic Launcher system” International conference on Green technology and power generation and communication 15 2015 2. Murugan, R. and Udayakumar, K. “Effect of rail dimensions on rail gun design parameters”, IEEE INDICON Conference, pp. 623-626, 2005. 3. R.Murugan, Asghar keshtkar, Leila gharib “Design of 500kJ Pulsed power supply system for electromagnetic rail gun using PSPICE simulation” 17th International symposium on electromagnetic Launcher system(Abstract accepted) July 2014 4. R.Murugan, Asghar keshtkar, Leila gharib “Effect of current shape on magnetic rail gun design at transient condition” 17th International symposium on electromagnetic Launcher system(Abstract accepted) July 2014
National Conference	-
Participations In Workshop / Seminar /FDP /Guest Lecture	
Workshop	5
Seminar	6
Faculty Development Programme	4