

DEPARTMENT OF ELECTRICAL ENGINEERING, GEC IDUKKI
FACULTY PROFILE



Name : Ann Mary Joshua
Designation : Assistant Professor
Age and date of birth : 38 Years, 17-01-1984
Highest qualification and institution : MTech, RIT Kottayam
Area of Study/ specialization : Industrial Drives and Control
Religion/Caste/Community : Christian, Marthomite
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Particulars of Salary, Qualification and Experience

Name of the Staff: **Ann Mary Joshua** Age: 38 Years
Date of Joining in Service: 19/10/2013 Date of joining in this Institution: 11/8/2021
Designation: Assistant Professor
Department: Electrical Engineering

Faculty Qualification (from highest to lowest)

Qualification	Name of the Educational Institution/ University	Year
M Tech	Rajiv Gandhi Institute of Technology MG University	2007
B Tech	Amal Jyothi College of Engineering MG University	2005

Service Particulars of the Faculty

Sl No	Post Held	Date of promotion/joining	Institution at which joined/ promoted	Total number of years in the present post
1	Assistant Professor	19/10/2013	GEC Idukki	8

Other Experience (Industrial Experience/ Teaching)

Post Held	Name of Industry/ Research Institution/ Educational Institution	Period/ no of years
Assistant Engineer	Kerala State Electricity Board	2010-2013

LIST OF STTP ATTENDED

Name of the Staff Member: Ann Mary Joshua

Department : Electrical Engineering

Sl No	Name of the course	Period	Venue
1	Microcontroller Based System Design	22 / 11 / 13 to 26 / 11 / 13	GEC, Idukki
2	Recent Trends in Industrial Drives and Control	2 / 12 / 13 to 7/ 12/ 13	CET, Thiruvananthapuram
3	Grid Integration of Renewable Energy Systems	01 / 07 / 15 to 03 / 07 / 15	RIT, Kottayam
4	Mathematical Techniques in Engineering Research	07 / 12 / 15 to 12 / 12 / 15	RIT, Kottayam
5	Control of Power converters and Drives	04 / 01 / 16 to 09 / 01 / 16	RIT, Kottayam
6	Electrical Machine Design using ANSYS	28 / 06 / 16 to 30 / 06 / 16	RIT, Kottayam
7	Research Aspects of Power Electronics in Modern Power Systems – Simulation and Experimental Analysis	08 / 08 / 16 to 12 / 08 / 16	RIT, Kottayam
8	Linear and Nonlinear Control Techniques for Engineering Applications	26 / 09/ 16 to 01 /10/ 16	RIT Kottayam

9	Research Perspectives on Solar and Wind Energy Systems	15 / 01 / 17 to 27 / 01 / 17	RIT, Kottayam
10	Sustainable Power Systems	7/6/2021 to 11/6/2021	NIT Trichy
11	Potential Areas in Renewable Technologies and Grid	8/11/2021 to 12/11/2021	GEC Thrissur
12	Inculcating Universal Human Values in Technical Education	27/09/2021 to 1/10/2021	AICTE
13	Electric and Hybrid Vehicles: Scope and Challenges	10/01/2022 to 15/01/2022	GEC Idukki

LIST OF PUBLICATIONS

:

1. Protection schemes for a battery energy storage system based microgrid in Electric Power Systems Research (2022).
2. Incremental transient power-based protection scheme for a DC microgrid in Electrical Engineering (2022).
3. Transient behavioural modelling of Battery Energy Storage System supporting Microgrid, 2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE2020).
4. Vector-controlled PMSM drive with power factor correction using zeta converter in International Journal of Industrial Electronics and Drives (2017).
5. Modeling and performance analysis of perturb & observe, incremental conductance and fuzzy logic MPPT controllers, International Conference on Advances in Electrical Technology for Green Energy (ICAETGT), 2017
6. Design, implementation and performance analysis of a LabVIEW based fuzzy logic MPPT controller for stand-alone PV systems, 2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), 2017
7. Real time simulation of KY Boost converter on miniature full spectrum simulator, International Conference on Next Generation Intelligent Systems (ICNGIS), 2016

STTP/Workshops Organized

Sl No	Name of the Workshop	Sponsored by	Period	Venue	Role
1	Control of Power Converters and Drives	DTE Kerala	4-9 January 2016	RIT, Kottayam	Co-ordinator
2	Power Electronics in Grid Connected Renewable Energy System	DTE Kerala	9 -14 January, 2017	RIT, Kottayam	Co-ordinator

List of programs other than STTP attended & organized by the Staff

Programs other than STTP attended

Sl No	Name of the program	Organized by	Period	Venue
1	PESGRE 2020	IEEE	2-4 January 2020	Le Meridian, Cochin
1	National Research Colloquium On 'Recent Advancements in Electrical Engineer Engineering'	College of Engineering, Perumon	13-14 March 2017	College of Engineering, Perumon
2	ICNGIS 2016	RIT	1-3 September 2016	RIT Kottayam
3	EPEC 2014	GEC Idukki	26-28 March 2014	GEC Idukki

Programs other than STTP Organized

Sl No	Name of the program	Topic	Sponsored by	Period	Venue	Role
1	Professional Skill Development Programme-Finishing School	Electrical CAD & CATIA	TEQIP Phase -II	June 24-27,2015	RIT	Co-ordinator
2	Professional Skill Development Programme-Finishing School	Real World Interfacing with Arduino and Raspberry Pi Boards	TEQIP Phase -II	June 29-July 2, 2016	RIT	Co-ordinator