National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name: Dr. Manas Ranjan jena
2. Designation: Assistant Professor
3. Office Address: Annex-2, S-4, Department of Electrical Engineering
4. Telephone (Direct) (Optional):

   Telephone : Extn (Optional):

   Mobile (Optional): 8338952441
5. Email (Primary): jena@nitt.edu Email (Secondary) :jena3471@gmail.com
6. Field(s) of Specialization: Power electronics control and drives

7. Employment Profile

Job Title	Employer	From	To
Senior Engineer	L&T Technology Services, Bangalore	15.08.2024	28.10.2024

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NIT Rourkela, Odisha.	2024	1st	Power electronic and Machine drives
M. Tech	VSSUT Burla, Odisha.	2019	1st	Power electronic and Machine drives
B.Tech	IGIT, Sarang, Odisha.	2016	1st	Electrical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Assistant Professor	Department of Electrical Engineering	01.01.20126	Cont.

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work
    (i) Curriculum Development
    (ii) Courses taught at Postgraduate and Undergraduate levels
    (iii)Projects guided at Postgraduate level
    (iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
M. R. Jena and K. B. Mohanty	Implementation of ZSVMs in Quasi-Z-Source Inverter Based IPMSM Drive with Single Current Sensor	IEEE Transactions on Transportation Electrification	vol. 10, no. 2,	pp. 3902-3912,	June 2024.	8.3
M. R. Jena, K. B. Mohanty, B. P. Behera, and A. Bharatee	Digital Implementation of Single Current Sensor-Based IPMSM Drive With Sampling Error Delay Compensation	IEEE Transactions on Instrumentation and Measurement	vol. 71	pp. 1-12	Nov. 2022.	5.9
M. R. Jena and K. B. Mohanty	MTPA Control of IPMSM with Self Correction of Parameters Equivalent Base Current	IEEE Transaction on Energy Conversions	vol. 40	pp. 1750-1762	Sept. 2025	5.4
A. Bharatee, P. K. Ray, A. Ghosh, and M. R. Jena	Active Power Sharing Scheme in a PV Integrated DC Microgrid with Composite Energy	IEEE Transactions on Power Systems	vol. 39	pp. 3497-3508	Mar. 2024	7.2

	Storage Devices					

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
M. R. Jena and K. B. Mohanty	Robust MTPA based IPMSM Drive with Reduced Sensor for EV Application			IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT),	New Delhi, India	2022
M. R. Jena and K. B. Mohanty	Design and Development of a simplified SVPWM based Vector Controller for IPMSM with MTPA Strategy			3rd International Conference on Energy, Power, and Environment: Towards Clean Energy Technologies,	Shillong, Meghalaya, India	2021
M. R. Jena and K. B. Mohanty	Robust Sliding Mode Current Controller for IPMSM Drives With MTPA Strategy			2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE),	Navi Mumbai, India	2021
M. R. Jena and K. B. Mohanty	Maximum efficiency controller for IPMSM using single DC link current sensor			IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC)	Gunupur Odisha, India	2020

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number