

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

He is Dr. Manoranjan Sahoo, currently working as Assistant Professor in the Department of Electrical and Electronics Engineering. He has joined the institute in May, 2018. Prior to join the institute he was working as Assistant Professor in the Department of Electrical Engineering at NIT Meghalaya. He is hailed from a small Village 'Puran' in Balasore District of Odisha. He has qualified GATE and received MHRD fellowship for perusing MTech. He has completed his MTech and PhD from IIT Hyderabad with Power Electronics specialization in year 2015 and 2017 respectively. His area of research interest includes Power electronics converter design, Single stage buck-boost DC-AC converter, PWM inverter, Multilevel inverter, Induction motor drives, Power converter for Electric Vehicle Application. The research works of Dr. Sahoo have published in many internationally reputed journals and conference proceedings. He is also a regular reviewer of many internationally acclaimed IEEE and IET journals. He has received best paper Award from Ansys Convergence conference, 2014 and Excellence in research award from IIT Hyderabad in two consecutive years i.e. 2016 and 2017.



1. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Meghalaya	04 th JAN, 2018	2 nd MAY, 2018
Assistant Professor	NIT Tiruchirappalli	3 rd MAY 2018	Till date..

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

Degree	Name of Board / University	Branch / Specialization	Year of Completion	Div. / Class
Ph.D.	IIT Hyderabad	Power Electronics	2017	1st
M.Tech	IIT Hyderabad	Power Electronics and Power System	2015	1st
B.Tech	B.P.U.T, Rourkela	Electrical and Electronics Engineering	2011	1st
X	B.S.E, Orissa	NA	2002	1st
XII	C.H.S.E, Orissa	Science	2004	1st

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3. Academic/Administrative Responsibilities within the Institute

Position	Faculty/Department/Centre/Institution	From	To
Coordinator for MTech Seminar	Dept. of EE, NIT Meghalaya	Jan, 2018	May,2018
Committee member for NBA	Dept. of EE, NIT Meghalaya	Jan, 2018	May,2018
Organizing committee member of the conference ICEPE,2018	Dept. of EE, NIT Meghalaya	Jan, 2018	May,2018
Developing Departmental Library	Dept. of EE, NIT Meghalaya	Jan, 2018	May,2018

4. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Best Paper Award	Ansys convergence conference
2016	Research Excellence Award	IIT Hyderabad
2017	Research Excellence Award	IIT Hyderabad

5. Details of Academic Work

Curriculum Development :-

Courses taught at Postgraduate and Undergraduate levels :-

- (i) Electrical Technology for UG students at NIT Meghalaya (Jan, 2018-May,2018)

Projects guided at Postgraduate level :-

Other contribution(s) :-

6. Details of Major R&D Projects

7. Number of PhDs guided

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8. 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
23-26 OCT. 2016	IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society , Florence, Italy	International	Paper Presenter	IEEE Industrial Electronics Society	Florence, Italy
21-23, DEC, 2015	7th National Power electronics conference (NPEC) , IIT Bombay	National	Paper Presenter	IIT Bombay	IIT Bombay
20-23, DEC, 2013	6th National Power Electronics Conference (NPEC) , IIT Kanpur	National	Paper Presenter	IIT Kanpur	IIT Kanpur

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

10. Invited Talks delivered

11. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	IEEE	93025909

12. Academic Foreign Visits

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13. Publications

Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
<i>M. Sahoo</i> and S. Keerthipati	A Three-Level LC-Switching-Based Voltage Boost NPC Inverter	IEEE Transactions on Industrial Electronics	vol. 64, no. 4	2876-2883	2017	7.168
<i>M. Sahoo</i> and S. Keerthipati	A Fault tolerant three level boost inverter with reduced source and LC Count	IET Power Electronics	vol. 11, no. 2	399-405	2018	3.547
B. P. Reddy; M. R. A ; <i>M. Sahoo</i> ; S. Keerthipati	A Fault Tolerant Multilevel Inverter for Improving the Performance of Pole-Phase Modulated Nine-Phase Induction Motor Drive	IEEE Transactions on Industrial Electronics	vol. 65, no. 2	1107-1116	2018	7.168

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Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
M.Sahoo, S.Keerthipati	A single source fed three level voltage boost NPC inverter with reduced LC count	IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society	3190-3195	industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence	Florence, Italy	2016
A.M. Rao, M.Sahoo, S.Keerthipati	A three phase five level inverter with fault tolerant and energy balancing capability for photovoltaic applications	2016 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	1-5		Trivandrum, India	2016
M.Sahoo, A.M. Rao, S.Keerthipati	A Three Level NPC LC-Switched Voltage Source Inverter	7th National Power Electronics Conference (NPEC)	1-5		IIT Bombay	2015
M.Sahoo, S.Keerthipati	High Gain Step Up DC-DC Converter for DC Micro-Grid Application	7th International Conference IEEE ICIAFS	1-5	Sharpening the Future with Sustainable Technology	Colombo, Srilanka	2014
M.Sahoo, S.Keerthipati	Bidirectional switched boost converter for AC-DC hybrid microgrid	Applied Power Electronics Conference and Exposition (APEC), 2014 Twenty-Ninth Annual IEEE	2231-2236		Fort Worth, TX, USA	2014
M.Sahoo, S.Keerthipati	Bidirectional Switched Boost Converter for three phase AC-DC hybrid Microgrid	7th National Power Electronics Conference (NPEC)	1-5		IIT Kanpur	2013

Books & Monographs