

FACULTY PROFILE

Name	: DR HEMEN CH MEDHI
E-mail	: hemenmedhi1984@gmail.com
Mobile no	: 8822350080/ 9954250788
Joined on	: 01-05-2010
Educational Qualification	: M.Sc , Ph.D
Awards/Fellowships/Scholarship	: Ph.D
Teaching Experience	: 12 Years
Research Experience	: 18 years
Research Interest	: Nuclear Instrumentation, Energy Engineering and HV Engineering
Professional Training	:

1. Participated in the online Short –Term Programme (sponsored by TEQIP-III) on “Power Electronics Applications to Industrial Systems” from 7th September 2020 to 11th September 2020 Organized by Electrical Engineering Department, NIT Silchar, Assam
2. Completed one week Faculty development Programme on “Energy and Environment : Conversation, generation and efficient utilization” from 24/08/2020 to 28/08/2020, organized by Department of Electrical Engineering and Civil Engineering, NERIST, Arunachal Pradesh.

Member of Academic Bodies :

1. Member of Moderation Board, NEHU, Shillong-22
2. Member of BOS Electronics, NEHU, Shillong-22

Research Projects :

1. Design and characterization of RPC for detection of charge particles, Completed
2. Design and development of laboratory instruments, ongoing.

Publications :

SL. No	Title of the Research Paper Published	Year of Publication, Vol. &No.	Name of the journal	National/ International
1.	H.C.Medhi, S C Rajbongshi, Design and Development of High Voltage Power Supply and its Application in RPC, e-ISSN: 2278-8875, p-ISSN:2320-3765	Year of Publication August 2020, Volume 9, Issue 8.	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	International Journal
2.	H C Medhi, B Tiru,K. Boruah, Study of Resistive Plate Counter,ISSN 20054297, Vol.1, Issue2, p22-24	ISSN 20054297, Vol.1, Issue2, p22-24	International Journal of Automatic Control System IJCS	International Journal
3.	H C Medhi, S C Rajbongshi etal, A New Pulse Stretcher Circuit Suitable for Nanosecond Pulses and Simulated in VHDL,ISSN 0973-4562, Vol 5 No10 (2010)pp. 1689 -1692	ISSN 0973-4562, Vol 5 No10 (2010)pp. 1689 -1692	International Journal of Applied Engineering Research	International Journal
4.	S C Rajbongshi,H C Medhi, C Thakuria etal, Simulation of Resistive Plate Counter (RPC) Pulse Height Spectrum, ISSN 0973-1776,Vol -6, No1(2010), pp.-9-14	ISSN 0973-1776,Vol -6, No1(2010), pp.-9-14	International Journal of Pure and Applied Physics	International Journal
5.	B.Tiru, P K Boruah and H Medhi, A DSP based channel selection algorithm for adaptive transmission indoor power line, ISSN No-0973-1458, 84(6),745-749(2010)	ISSN No-0973-1458, 84(6),745-749(2010)	Indian J. Physics	International Journal

6.	S C Rajbongshi, H C Medhi and P K Boruah, A High Voltage Generator Circuit is Used in a new Detector RPC , ISSN : 0587-1921, Vol. 50 (1&2) pp. 74-77(2010)	ISSN : 0587-1921, Vol. 50 (1&2) pp. 74-77(2010)	Journal of Assam Science Society	National Journal
7.	S C Rajbongshi, H C Medhi and P K Boruah, A New Pulse Stretcher Suitable For Nanosecond Pulses, ISSN : 0587-1921, Vol. 50 (1&2) pp. 78-81 (2010)	ISSN : 0587-1921, Vol. 50 (1&2) pp. 78-81 (2010)	Journal of Assam Science Society	National Journal
8.	B Tiru, P K Boruah and H C Medhi, Study and Simulation of Transfer Function of Indoor Power line Using Transmission Line Theory ISSN : 0587-1921, Vol. 50 (1&2) pp. 100-105 (2010)	ISSN : 0587-1921, Vol. 50 (1&2) pp. 100-105 (2010)	Journal of Assam Science Society	National Journal
9.	B Tiru, P K Boruah and H C Medhi, Study of Noise Scenario in Indoor Power Line Under Usual Household Condition. ISSN : 0587-1921, Vol. 50 (1&2) pp. 106-113 (2010)	ISSN : 0587-1921, Vol. 50 (1&2) pp. 106-113 (2010)	Journal of Assam Science Society	National Journal
10.	Development of Electrode plates using Vapour deposition method for RPC detectors	ISBN 978-981-16-5406-0	Chapter , estimated print publication date oct -2021in Springer Nature	International
11.	Design of a Power Inverter Using Solar Cell as a Source of Charger		Conference proceedings, CIT , Kokrajhar	EMNSD-2020

Abstracts & Presentation in National/ International Seminar/Symposium :

Sl. No	Name of the seminar etc	Date	Venue	Paper presented (Yes/No) or not	Sponsored by
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1.	Assam Science Society, The 54th Annual Technical Session.	February4,2009	Tezpur University	Yes	Self
2.	Assam Science Society, The 54th Annual Technical Session.	February4,2009	Tezpur University	Yes	Self
3.	Assam Science Society, The 54th Annual Technical Session.	26 th March,2011	Dibrugarh University	Yes	Self
4.	Assam Science Society, The 54th Annual Technical Session.	26 th March,2011	Dibrugarh University	Yes	Self
5.	National Seminar on “ Recent Trends in Science & Technology”	24 th to 26 th Sep 2014	Union Christian College	Yes	Self
6.	National Seminar on Science and Technology for sustainable Development	23 rd January, 2016	Goalpara College	Yes	Self
7.	National Conference of the Physical Academy of Northeast	April 2-4, 2009	Deptt. Of Physics , Tripura University	Yes	Self
8.	28 th National conference on Condensed Matter Physics Condensed Matter Day’s 2020 (CMDAYS20)	11-13 December,2020	NIT Silchar	Yes	Self
9.	1 st International Conference on Evolving Materials and Nanotechnology for sustainable Development (EMNSD2020)	14-15 December 2020	Deptt of Physics, CIT kokrajhar	Yes	Self
10.	National Conference on North East Meet of Astronomers (NEMA-VI)	10-13 November	Deptt of Physics IIT Guwahati	Yes	Self

11.	2 ND International Conference on Future Aspects of Sustainable Technologies (FAST 2.0)	20-21 October, 2020	Deptt. Of Chemistry, CIT Kokrajhar	Yes	Self
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Additional Responsibilities since 2018 (in St Edmund's College):

1. Member, college website committee
2. Participated in college week