



Dr. Madan Gopal Tiary

Professor & Head

Electronics & Communication Engineering Dept.

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Dr. MADAN GOPAL TIARY was born in Purba Midnapore, West Bengal, India. He received his B.Sc. degree in Physics (Hons) from R. K. Mission Residential College, Narendrapur, Calcutta University for which he was awarded National Scholarship, B.Tech and M.Tech degree both from Institute of Radio Physics and Electronics, Calcutta University and PhD degree from Jadavpur University, Kolkata, West Bengal, India. He is presently serving B.I.T Sindri, Dhanbad, Jharkhand as Professor & Head in the Department of Electronics and Communication Engineering and institute NBA coordinator. BIT Sindri has received NBA accreditation of 7 UG programs during his tenure of NBA coordinator. He previously served Asansol Engineering College, Asansol, West Bengal, India in various capacities like Principal, Dean and Head of the Department, ECE, BOG member etc. He has chaired many seminars, workshop, and conferences. He is life Fellow of Institution of Engineers (India) and also associated with Institution of Engineers (India) Asansol Local Centre where he was previously in the capacity of the Honorary Secretary for Session: 2014-16. His research interest is in the field of Microwave Engineering which includes Microstrip Antenna, Microstrip line etc. He has published more than 25 research papers in International Journals as well as International and national Conferences.

1. Experience: Teaching experience 22 years
(Professor more than 13 Years)
&
Industry experience 3½ years

2. Father's Name: Late Sudarsan Tiary

3. Date of Birth: 19th February, 1972

4. A) Office Address:

Electronics & Communication Engineering Dept.

B.I.T. Sindri. (Govt. of Jharkhand)

Dhanbad – 828123

Jharkhand; India

B) Address for communication:

Qtr. No.: O/47; Professor Colony

B.I.T. Sindri, Dhanbad – 828123

Jharkhand; India

C) Permanent Address:

Manisha Apartment; Flat No.-12

Apcargarden (East); Asansol-713304

West Bengal; India

5. Academic Qualification:

Degree	School/College/Dept.	Board/ University	Year	Division/ Class
Ph.D	Electronics & Telecommunication Engg. Dept.	Jadavpur University	2010	-
M.Tech	Institute of RadioPhysics & Electronics	Calcutta University	2003	I
B.Tech	Institute of RadioPhysics & Electronics	Calcutta University	1996	I
B.Sc. in Physics (Hons.)	R. K. Mission Residential College, Narendrapur	Calcutta University	1993	I
Higher Secondary	Kalagachia Jagadish Vidyapith, Midnapore	W.B.C.H.S.E.	1990	I
Madhyamik	Kalagachia Jagadish Vidyapith, Midnapore	W.B.B.S.E	1988	I

6. Area of Specialization: Microwave Engineering

7. PhD (Guided): 01

Candidates Awarded/ submitted Doctoral Thesis under the guidance of Dr. M. G. Tiary

Sl No.	Name of the Candidate	Title of the Thesis	Registration No	Degree Awarded by	Status
1	Shiv Charan Puri	DESIGN AND CHARACTERIZATION OF UWB AND MULTIBAND PLANAR ANTENNAS FOR WIRELESS APPLICATIONS	2013/DR/1074	IIT-ISM, Dhanbad	Awarded No.1246/Exam/2199/PHD/ECE /SCP/20 Dated: 17.12.2020
2	Rahul Ranjan				Doing Course Work
3	Ravi Kumar Burman				Doing Course Work

8. Subjects Taught:

I) UG:

1. Microwave Engineering
2. EM Theory
3. Antenna & Wave Propagation
4. Analog Communication
5. Communication Theory
6. Microprocessor & its application
7. Digital Electronics
8. Basic Electronics

II) PG:

1. Advance Microwave Engineering
2. Microwave Measurement

9. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	From	To
1	Professor, ECE Dept	BIT Sindri	19.01.2018	Till date
2	Professor, ECE Dept	Asansol Engineering College	26.07.2010	18.01.2018
3	Asst. Professor	Do	01.02.2005	25.07.2010
4	Sr. Lecturer	Do	01.02,2004	31,01.2005
5	Lecturer	Do	14.02.200	31.01.2004

II) Industrial Experience:

Sl. No.	Position held	Name of Organization	From	To
1	Service Engineer	Instromedix (India) Pvt Ltd	16.08.1997	13.02.2000
2	Sr. Sales and Service Engineer	Cresswell Electronics Pvt Ltd	01.11.1996	15.08.1997

10. Administrative Position held:

Sl. No.	Position held	Name of Organization	From	To
1	Sr. Administrative Officer	BIT Sindri	June,2019	Nov,2020
2	HOD, ECE	BIT Sindri	01.12.2021 Jan,2019	Till date Oct,2019
3	NBA Coordinator	BIT Sindri	25.01. 2018	Till date
4	Principal (I/C)	Asansol Engineering College	28.09.2015	18.01.2018
5	Dean (PG & Research)	Do	10.02.2015	18.01.2018
6	HOD, ECE Dept	Do	August, 2012	June, 2016
7	HOD, AEIE Dept	Do	July, 2011	August,2012
8	Principal (I/C)	Do	10.01.2012	04.04.2012

11. Publications:

I) International Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1	“Copper with silicon nitride as a High speed VLSI Interconnection,”	<i>International Journal HIT Transaction on ECCN,</i>	Vol. 1, No. 3	July 2007.	166-173,
2	“Impedance and Loss Analysis of Cu Interconnections on Non Conventional Dielectrics for High Frequency VLSI Application,”	<i>International Journal of Microwave and Optical Technology,</i>	Vol. 4, No. 5	September, 2009.	293-301
3	“Loss Calculation of Copper Microstrip Lines on Si ₃ N ₄ and SiO ₂ Dielectrics by Spectral Domain Approach for Application in VLSI.”	<i>International Journal, Asian Journal of Physics</i>	vol. 18, no. 2,	2009	231-242
4	“Retrospective on Delay Faults and its Detection Methods”	International Journal BITM Transactions on EECC,	vol. 2, No. 2,	March, 2011,	183-196.
5	“Analysis of Triangular Slotted Microstrip Patch Antenna”	International Journal BITM Transactions on EECC,	vol. 2, No. 2,	March, 2011,	313-320.
6	A Novel Quad Band Rectangular Microstrip PatchAntenna for wireless Applications”	International Journal of Computer Applications (IJCA), USA,	Vol. 5	2011	24-26

7	“An Innovative Design Initiative for preventive and or Interrupting Carnage during Surface Transportation.”	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE).	Vol.3, Issue-4;	April, 2014	431-436. ISSN: 2278-909X.
8	“Design and Comparison of Broadband Microstrip Patch Antenna with different Slots Loaded at the centre and fixed double crossslot at the edges”	International Journal of Engineering Research & Management Technology,	Vol. 2, No. 2,	March, 2015,	274-285. ISSN 2348-4039
9	“An Ultra Wideband Band pass Filter using Interdigital Structure and DGS”	International Research Journal of Engineering and Technology (IRJET), impact factor 4.45, ISSN 2395-0072.	Vol. 3 Issue-08	August, 2016,	2035-2038
10	“An Ultra Wideband Bandpass Filter using Stepped Impedance Resonators and DGSStructures”	International Journal of Computer Engineering in Research Trends (IJCERT), ISSN (O): 2349-7084.	Volume 4, Issue 5,	May-2017,	185-189
11	An UWB Trapezoidal Ring Fractal Mono Pole Antenna with Dual Notch Characteristics.	International Journal of RF and Microwave Computer Aided Engineering, Wiley	--	March, 2019	PP. 1-10

12	A Multiband Antenna using Plus Shaped Fractal like Element and Stepped Ground Plane.	International Journal of RF and Microwave Computer Aided Engineering, Wiley	30 (5)	Jan-2020	PP. 1-10
13	UWB Mono Pole Antenna with Dual Band Notched Characteristics	International Journal of Microwave Optical Technology Letter, Wiley	62 (3)	2020	PP. 1222-1229

II) International Conference:

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
1	Characteristics of Cavity Enclosed Circular Microstrip Patch Radiator”.	<i>International conference on Computers and devices for communication,</i> Institute of Radio-Physics & Electronics, Calcutta University,		January 1-3, 2004	
2	Spectral Domain Analysis of Novel VLSI Interconnections,”	<i>International Workshop on Frontiers in Electronics, Information and Communication Engineering,</i> Jadavpur University.		December 20, 2008,	
3	“Retrospective on Delay Faults and its Detection Methods”	International Conference on “Recent Advances in Mathematics,		19-20 March, 2011,	

		Technology and Management” Bengal Institute of Technology and Management, Bolpur.			
4	“Analysis of Triangular Slotted Microstrip Patch Antenna”	International Conference on Recent Advances in Mathematics, Technology and Management, Bengal Institute of Technology and Management, Bolpur.		19-20 March, 2011,	
5	A Novel Quad Band Rectangular Microstrip Patch Antenna for wireless Applications”	International Symposium on Devices MEMs Intelligent Systems and Communication, Sikkim Manipal Institute of Technology, Sikkim.		12 th -14 th April, 2011,	24-26
6	, “An Ultra Wideband Bandpass Filter using Microstrip Stub Loaded Resonators”	International Conference ICMAP-2013 at ISM University, Dhanbad,		December 13-15, 2013	Published in IEEE Explorer 978-1-4799-2174-4/13/\$31.00 ©2013 IEEE (Ref. Paper ID:

					06733492) ISBN: 978-1- 4799- 2176-8
7	A CPW Fed Trapezoidal Fractal Patch Antenna for UWB Application	APS URSI International Conference	--	2018	PP. 749-750

III) National Journal :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1	“A Novel Compact and Broad Band Microstrip Patch Antenna”	National Journal of the Association of Engineers, India,	Vol. 83, No. 3 & 4,	2013	56-62. ISSN 0368-1106.

IV) National Conference:

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
1	“Dispersion Characteristics of Planar Transmission lines on Silicon nitride substrate for MIC & MMIC application,”	<i>National Conference on Recent Advancements in Microwave Techniques and Applications</i> University of Rajasthan, Jaipur,		October 6-8, 2006.	225 – 228
2	“Biological effect of Electromagnetic Radiation,”.	<i>National Seminar on Environmental Management,</i> Asansol		July 26-28, 2007	13

		Engineering College, West Bengal,			
3	“Characteristic Impedance of Microstrip Interconnection on Non Conventional Dielectric for VLSI application.”	<i>National Conference on Device, Intelligent System and Communication & Networking,</i> Asansol Engineering College.		1-2 August, 2008,	261 - 266.
4	“A Discussion on Multiple Faults and Its Methods of Diagnosis”	National Conference on “Electronics, Communication and Signal Processing, NCECS-2011” Siliguri Institute of Technology, Siliguri.		19 th September, 2011,	93-98
5	“Design of a compact and Broadband microstrip patch antenna with swastika shaped slot”	National Conference CMC-2012 at Asansol Engineering College,		14.08. 2012	72- 74
6	“A novel compact and Broadband microstrip patch antenna with crossed shaped slot”	national conference CMC-2012 at Asansol Engineering College,		14.08. 2012	108-110
7	“Some Investiagtions on Yagi-Uda Slot Loaded Microstrip Patch Antenna”, Paper ID-NCECS-1326,	National Conference on “Electronics, Communicatio n and Signal Processing, NCECS 2013, SIT Siliguri,		19 th September 2013.	
8	“A Compact and Wide Slot Fractal	National Conference ETES-2014 at Asansol		January 30-31, 2014,	240-245, McGraw Hill

	Microstrip Patch Antenna”	Engineering College,			Education ISBN-13: 978-93-392-0316-0.
9	“A Simple Ultra Wideband Microstrip Bandpass Filter using Defected Ground Structure”	National Conference ETES-2014 at Asansol Engineering College,		January 30-31, 2014,	271-273, McGraw Hill Education ISBN-13: 978-93-392-0316-0.

12. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	National Seminar on Environmental Management	AICTE	July 26-28, 2007
2	Workshop on Microwave Engineering Laboratory	TEQIP	3 rd -8 th August, 2007
3	National Conference on Device, Intelligent System and Communication & Networking	TEQIP	1-2 August, 2008
4	One day seminar on Present and Future Scenario of Industrial Research and Development	Asansol Engineering College & IIP Cell	13 th Nov, 2009
5	Industry Oriented Training on PLC	Asansol Engineering College & IIP Cell	23-27 August, 2010
6	National Conference on Recent Trends in Communication, Measurement and Control	Asansol Engineering College	14 th August, 2012

7	IEEE AP MTT Lecture	IEEE AP MTTKolkataSection & AsansolEngineeringCollege	30 th November, 2012
8	IEEE AP MTT Workshop on Microwave and Antenna Techniques	IEEE AP MTTKolkataSection & AsansolEngineeringCollege	2 nd and 3 rd March, 2013
9	Faculty Development Program on Applications of Soft Computing	Asansol EngineeringCollege	1 st -6 th July,2013
10	Faculty Development Program on SolidState Electronic Devices	Asansol EngineeringCollege	1 st -2 nd Nov,2014 14 th -15 th March,2015
11	workshop on“Intelligent Control”	Asansol EngineeringCollege	25 th -26 th August, 2015
12	workshop on “VLSI Circuit Design & Application using EDA Tool”	Asansol EngineeringCollege	20 th to 21 th August, 2015
13	Workshop on “Internet of Things (IoT)”	B.I.T Sindri	14 th to 18 th October, 2019
14	Workshop on Outcome Based Education (OBE)	BIT Sindri	19 th to 20 th July, 2021
15	Workshop on Examination Reforms as per OBE requirement. (Presented)	BIT Sindri	24 th July,2021

- Editor:**
- i) National Conference ETES-2014 at Asansol Engineering College, January 30-31, 2014.
 - ii) National Conference ETES-2015 at Asansol Engineering College, July 16th – 17th, 2015.

13. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
1	UGC sponsored Refresher course on “Microwave Theory & Technique”	January 03-22, 2005.	Jadavpur University,
2	Short term training programme on “Microteaching for teaching skill development”,	August, 02-06, 2005,	Asansol Engineering College, conducted by NITTR, Kolkata.
3	TEQIP sponsored Short term training programme on “Fundamental of Mechatronics”	June 26-30, 2006 and July 17-21, 2006	Kalyani Govt. Engineering College, and Asansol Engineering College,.
4	TEQIP sponsored Short term course on “Microwave Laboratory Experiments for Faculties and Technician,”	February 03-08, 2007,	Asansol Engineering College, conducted by IIT, Kharagpur.
5	AICTE & DST Sponsored Short term programme on “Microprocessor & Embedded Microcontroller Systems,”	June 23-28, 2008.	Asansol Engineering College
6	Work Shop on TEQIP Phase-I at Hayat Regency, Kolkata and at Radison Fort, Raichak, 24-parganas, West Bengal	2 nd February, 2009 and 3 rd and 4 th February, 2009	Jadavpur University.
7	Wipro Technology conducted short term course on “Mission 10X- A Teaching Methodology ”	January 11-15, 2010.	Asansol Engineering College,
8	Workshop on TEQIP Phase-II organized by State Project Facilitation Unit (SPFU)-WB	on 9 th & 10 th March 2010	At Calcutta University Salt Lake Campus, Kolkata.
9	IEEE AP MTT Workshop on Microwave and Antenna Techniques	2 nd and 3 rd March, 2013	Asansol Engineering College.
10	Faculty Development Program on Solid State Electronic Devices	1 st -2 nd November,2014 & 14 th – 15 th March,2015	Asansol Engineering College

11	Workshop on Outcome Base Education (OBE) and Accreditation	16 th -17 th March, 2018	BIT Sindri
12	Faculty Development Program on DSP & Sensor,	10 th – 14 th Dec, 2018	BIT, Sindri. Electronics & ICT Academy
13	Faculty Development Program on Digital Transformation in Teaching Learning Process	16 th – 30 th March, 2020	IIT Bombay BIT Sindri
14	Workshop on Design and Analysis of Microwave Systems using ANSYS HFSS	2 nd 6 th Nov, 2020	BIT Sindri
15	Professional Development Training	17 th – 19 th Dec, 2020	IIM Visakhapatnam
16	Professional Development Training	1 st – 3rd March, 2021	IIM Trichi
17	Workshop on Examination Reforms	8 th to 9 th July, 2021	AICTE
18	Workshop on Outcome Base Education (OBE)	19th - 20th July, 2021	BIT Sindri
19	Workshop on Examination Reforms as per OBE Requirement	24th July, 2021	BIT Sindri

14. Award / Recognition Bestowed on Faculty (State / National / International)

1. Awarded National Scholarship for B.Sc Physics (Hons) Result in 1990.
2. Awarded for 1st position in Part-I test examination in B.Sc. (1992) in the college, Ramakrishna Mission Residential College, Narendrapur, Kolkata.
3. Awarded for 1st class 1st division in the B.Sc. (Phy) Hons. of Calcutta University examination in 1993.
4. Awarded for best Service Engineer of the Eastern Region (1998-99) from Instromedix (India) Pvt. Ltd.
5. Awarded for best Head of the Department of Asansol Engineering College in JIS Samman, 2015.

15. Members of Professional Bodies:

Hony. Secretary, Institution of Engineers (India), Asansol Local Center; Session: 2014-16.

Life Fellow of Institution of Engineers (India)

Ex- Chairman, Board of Examiner, Techno Commercial Vocational Training Institute;
Asansol.