Department of Biomedical Engineering

Name	B.MUTHUPANDIAN
Date of Birth	26.05.1983
Unique ID	1-7437243499
Educational Qualifications	M.E(Ph.D)
Designation	ASSISTANT PROFESSOR
Email ID	muthupandianece@sethu.ac.in
Alternate Email ID	mpspmuthu09@gmail.com

Experience	Industry	Teaching	Others	Total
	-	17.6	-	17.6

Date of Joining the Institution	02.06.2021
Area of Specialization	VLSI Design
Courses taught	VLSI Design, Digital Signal Processing, Digital Electronics, Signal and system, Control system, Network theory ,Analog Circuit, Embedded System, Medical Instrumentation .
Research Focus	Analog VLSI
Research guidance (Number of Scholars)	
Subject Competency	*VLSI Design*

No. of papers published	National Journals	International Journals	Conferences
		03	*01*

PG Specialization	VLSI Design
Ph.D. Specialization	
Projects Carried out	
Patents (Filed & Granted)	*02*
Technology Transfer	
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Electronics and Instrumentation	Madurai kamaraj university	2004
PG	M.E	VLSI Design	Anna University	2007

Details of Journal Publication:

1. **Kumar, T.V., Venkatesh, M., Muthupandian, B. *et al.* Charge Density Based Small Signal Modeling for InSb/AlInSb Asymmetric Double Gate Silicon Substrate HEMT for High Frequency Applications. *Silicon* 14, 6009–6018 (2022) https://doi.org/10.1007/s12633-021-01383-y**

2. **Muthupandian B, A. Ayesha, G. Rithi, M. J. Rizwana Fathima, "Wheelchair: An Autonomous Vehicle With Smartness", *International Journal of Research in Mechanical Mechatronics and Automobile Engineering*, Volume 9 Issue 1, Pages 36-44, June 2023, ISSN: 2454-1443.**

3. **Ganesan M.Vishnupriya,B.Muthupandian, A. Ayesha, G. Rithi, M. J. Rizwana Fathima, "An Efficient Constant Multiplier Architecture using binary common Sub Expression elimination and fault mitigation for symmetry filters, Volume 9 Issue 1, Pages 36-44, June 2023, ISSN: 2454-1443, *International Journal of engineering Science and Computing*, Volume 6 Issue 5, Pages 36-44, May, 2016, 5128-5132**

Details of Conference attended:

-

1. P. V. Pramila; P. Suresh; T. Siva; M. Sanmuga Priya; **B. Muthu Pandian**, " Single-image super-resolution enhancement mechanism", *AIP Conference Proceedings,* September 2022, *doi.org/10.1063/5.0109211.*

Details of Book Chapter and Books Published:

-

Details of Patents Filed and Granted:

S. No.	Title of the Patent	Reference Number / Date	Filed / Published / Granted	Name of the Faculty
1.	AI-Driven Diagnostic tool for Automated Analysis of Medical Imaging	Application Number 202441096182A Dated 05.12.2024	Published	Dr.N. Mahalakshmi N Dr.N. Kins Burk Sunil Dr.D.Sunderlin Shibu Ms.R.Vasantharani Mr.B. Muthu Pandian Mrs.G. Vijaya Lakshmi Mr.S.Malaisamy Mrs.Mary James
2.	Flexible Electromyography Sensor	Application Number 6296829 Dated 23.07.2023	Granted	Dr.Sunderlin Shibu. D Dr.Kins Burk Sunil. N Mr.Muthupandian. B Mrs.Vijaya Lakshmi. G Mrs.Rubini. G

Expert Lecture Delivered:

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