



Department of Electronics and Communication Engineering					
Name	Shanmuga Priya K				
Date of Birth	03-04-1997				
Unique ID	1-43363506643				
Educational Qualifications	M.E (Communication Systems)				
Designation	Assistant Professor				
Email ID	shanmugapriya@sethu.ac.in				
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Experience	Industry	Teaching	Others	Total	
		3 years and 22 days		3 years and 22 days	
Date of Joining the Institution	29.06.2022				
Area of Specialization	Image Processing				
Courses taught	Image Processing and Machine Learning, Video processing and Analysis, Anatomy of Smartphones and laptops, Wireless Communication, Electronic Circuits, Internet of Things and its applications.				
Research Focus	Signal and Image Processing				
Research guidance (Number of Scholars)	NA				
Subject Competency	Biomedical Signal and Image Processing				
No. of papers published	National Journals	International Journals		Conferences	
	2	-		11	
PG Specialization	Communication Systems				
Ph.D. Specialization	NA				
Projects Carried out	4				
Patents (Filed & Granted)	Status: Published 1. AmniSen: A Novel device for amniotic fluid measurement 2. DuoCare: A non-invasive fetal monitoring device				
Technology Transfer	Nil				
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	M.Parisa Beham ,R.Tamilselvi,S.Ramya,K.Shanmugapriya,J.Judith “Remote Sensing and Information System”, Shanlax Publications,Vasantha Nagar,Madurai 2025, ISBN: 978-93-61-63-680-6.				



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Electronics and Communication Engineering	Anna University	2018
PG	M.E	Communication Systems	Anna University	2022

Details of Journal Publication:

1. S.M.Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, M. Parisa Beham and K. Shanmuga Priya, "Analysis of Amniotic Fluid in fetal Assessment from biophysical profile", ACM, 2023.
2. S.M.Seeni Mohamed Aliar Maraikkayar, R Tamilselvi, and K. Shanmuga Priya, "Analysis of Biophysical profile in fetal assessment,Dickensian journal , Volume 22, Issue 4,2022.

Details of Conference Publication (Till Jul 2025):

1. **K.Shanmugapriya**, A. Ahamed Suhail, J.Ahamed Ansari, S.Arun Kumar, Poultry Connect, National Conference on Emerging Trends In Information And Communication Technologies (ETICT'25), 4th April,2025.
2. **K.Shanmugapriya**, S.Rajarajeshwari, K.Saraswathi Shivani , M.Selvanayagi, AI-powered criminal profiling-predicting criminal behaviour using machine learning, National Conference on Emerging Trends In Information And Communication Technologies (ETICT'25), 4th April,2025.
3. S.M. Seeni Mohamed Aliar Maraikkayar, Dr.R. Tamilselvi, **K.Shanmugapriya**, Dr.M.Parisa Beham,, M.K.Sivaroshini, S.Subhasri, E.Subitcha ,AI-enhanced non-invasive fetal breathing movement monitoring: a real-time wearable system for predictive prenatal healthcare, National Conference on Emerging Trends In Information And Communication Technologies (ETICT'25), 4th April,2025.
4. S.M. Seeni Mohamed Aliar Maraikkayar, Dr.R. Tamilselvi, **K.Shanmugapriya**, Dr.M.Parisa Beham ,FEMCARE: An AI-driven non-invasive fetal monitoring wearable system for real-time health assessment and preterm labor detection, National Conference on Emerging Trends In Information And Communication Technologies (ETICT'25), 4th April,2025.
5. **K.Shanmugapriya**, D. Uthaman, AI-driven network traffic prediction and intelligent management for next-generation communication systems, National Conference on Emerging Trends In Information And Communication Technologies (ETICT'25), 4th April, 2025.
6. S.M. Seeni Mohamed Aliar Maraikkayar, Dr.R.Tamilselvi, Dr.M.ParisaBeham, **Ms.K.Shanmugapriya**, Ms.M.Gayathri "FMD-Net: A Hybrid Deep Learning Framework for Automated and Sustainable Detection of Fetal Movements in Ultrasound Imaging" ICISAS 2025, Curtin University Dubai, February 22, 2025.
7. R.Tamilselvi, M.ParisaBeham, A. Sabah Afroze, K.Kalpana, S.Suganya Kannnan, M.Shanthi ,**K.Shanmuga Priya**, S.Nandhineeswari, Multi-Class Mango Leaf Disease Detection Using Attention-Enhanced Capsule Networks,OHPGPR, Feb 19-21, 2025.
8. **Ms.K.Shanmugapriya**, K.Chandrakumar, M.Bharath, and N.Gunasekaran, "Semi-automated solar panel clearing drone", ETICT2K23,Sethu Institute of Technology, April 5-6, 2023.
9. **Ms.K.Shanmugapriya**, R. Selvaprakash, T.J Ram Prasath, A. Sheik Abdulla "TIARA-Net Tehrahertz Imaging applied recognition of ancient rocks", ETICT2K23,Sethu Institute of Technology, April 5-6, 2023..
10. S.M. Seeni Mohamed Aliar Maraikkayar, Dr.R.Tamilselvi, Dr.M.ParisaBeham, **Ms.K.Shanmugapriya**. Ms.N.Swetha, An automated approach for CNN based detection of fetal breathing movement using modified U-Net architecture,ETICT2K23,Sethu Institute of Technology, April 5-6, 2023..
11. S.M. Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, M.ParisaBeham, and **K. Shanmuga Priya**, Analysis of amniotic fluid in fetal assessment using Biophysical profile images-ICVGIP Conference,2023.

Details of Book Chapter and Books Published:

M.Parisa Beham ,R.Tamilselvi,S.Ramya,K.Shanmugapriya,J.Judith “Remote Sensing and Information System”, Shanlax Publications,Vasanthanagar, Madurai 2025, ISBN: 978-93-61-63-680-6.

RESEARCH PROJECTS				
S. No.	Title of Project	Source of Funds	Amount in INR	Duration
1	AmniSen	EDII IVP A	2,50,000	2023-2025
2	PoultryConnect	EDII IVP A	3,00,000	2025-2026
3	DuoCare	TBI-Thrissur	1,00,000	2024-2025
4	Fetovision	UYARE – IIT Palakkad	10,00,000	2024-2026

PATENTS PUBLISHED			
Inventors	Patent Title	Patent No.	Year
R.Tamilselvi, M.Parisa Beham and K.Shanmugapriya	AmniSen: A Novel device for amniotic fluid measurement	202341054676	2023
R.Tamilselvi, M.Parisa Beham and K.Shanmugapriya	DuoCare: A non-invasive fetal monitoring device	434486-001	2025