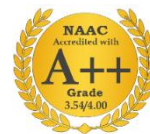





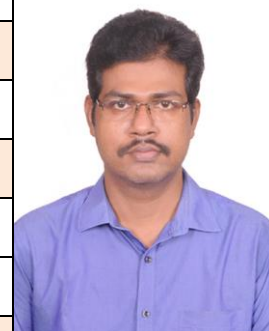
SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

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| Department of Biomedical Engineering | | | | | |
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| Subject Competency | Bio-Control Systems, Bio-Signal/Image Processing. | | | | |
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| | - | 11 | | 01 | |
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| Projects Carried out | - | | | | |
| Patents (Filed & Granted) | 5 | | | | |
| Technology Transfer | - | | | | |
| No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.) | - | | | | |



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Details of Journal Publication:

1. Lakshmi Priya R, Kumaraswamy V, **Kins Burk Sunil N**, Ramani S, Latha S, “E-DigitTool: A New-Fangled Framework for Disease Prediction and Diagnosis in Remote Healthcare Applications”, Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Vol.48, pp.1463–1481, (2024).
2. **Kins Burk Sunil N**, Abdul Rahman K, Arupadayapan T, Yuvaraja, Thamaeem, “Photobiomodulation Therapy: A Novel Approach For Androgenetic Alopecia ” *International Journal of Information and Communication Engineering*, Volume 13, Issue 3, June 2023, Pages 12-18, ISSN:2250-1118.
3. Kantharimuthu M, Malathi M, Sinthia P, Aloy Anuja Mary G, **Kins Burk Sunil N**, Jalal Deen K, “Oral Cancer Prediction Using a Probability Neural Network (PNN)”, Asian Pacific Journal of Cancer Prevention, Vol.24, No.9, pp.2991-2995, (2023).
4. **Kins Burk sunil N**, Jalal deen K, Rachel L, “Support Vector Machine Algorithm for Effective Lung Cancer Detection Using Fuzzy Clusters”, International Journal of Scientific Research in Engineering and Management, Vol.7, No.4, (2023).
5. **Kins Burk Sunil N**, Merlin Renaxy A, Saranya G, Karpagakani T, “Classification of MRI Brain Images using Convolution Neural Network”, Malaysian Multidisciplinary Journal, Vol.2, No.2, pp.27-37, (2023).
6. **Kins Burk Sunil N**, Meera Varshini J, Shanmuga Priya R, Sathya Priya S, “Preanalysis of Breast Cancer using LabVIEW”, Malaysian Multidisciplinary Journal, Vol.2, No.1, pp.18-24, (2023).
7. **Kins Burk Sunil N**, Yogeshwari N, Abinaya S, Tamil Arasi S, “Cloud Based Pregnant Women Monitoring System”, Malaysian Multidisciplinary Journal, Vol.1, No.5, pp.16-24, (2022).
8. **Kins Burk Sunil N**, Ganesan R, Sankaragomathi B, “Analysis of OSA Syndrome from PPG Signal Using CART-PSO Classifier with Time Domain and Frequency Domain Features”, Computer Modeling in Engineering & Sciences, Vol.118, No.2, pp. 351-375, (2019).
9. **Kins Burk Sunil N**, Ganesan R, Sankaragomathi B, “GPSO Based Effective System for Respiration Disease Detection”, Taga Journal, Vol.14, pp.700-709, (2018).
10. **N Kins Burk Sunil**, R Ganesan, “Adaptive Neuro-Fuzzy Inference System for Classification of Respiratory Signals using Cepstral Features”, International Journal of Applied Engineering Research, Vol.10, No.28, pp.22121-22125, (2015).
11. **Kins Burk Sunil N**, Ganesan R, “Preliminary Recognition of Respiratory Deformities using Cepstral Analysis”, International Journal of Advanced

Details of Conference attended:

1. **Kins Burk Sunil N**, Maadhavan G, Abdul Rahman, “Predictive Modeling For Coronary Artery Disease”, 4th International Conference on Biotechnological Emergence in Science and Technology (ICBEST - 2025), SRM Institute of Science & Technology, Ramapuram, Chennai, 27 & 28 Feb. 2025, ISBN : 978-93-341-8141-8.

Details of Book Chapter and Books Published:

1. M Malathi, U Madhanlal and **N Kins Burk Sunil**, “Oral cancer detection using optical coherence tomography–A detailed review”, Materials Today: Proceedings, Elsevier, (Feb. 2021).

Details of Patents Filed and Granted:

| Date | Level | Inventors | Title | Status |
|------------|--------------------|---|---|-----------|
| 13/12/2024 | National | Dr.N.Mahalakshmi, Dr.N.Kins Burk Sunil , Dr.D.Sunderlin Shibu, Mrs.R.Vasantharani, Mr.B.Muthupandian, Mrs.G.Vijaya Lakshmi, Mr.S.Malaisamy, Mrs.Mary James | AI-Driven Diagnostic tool for Automated Analysis of Medical Imaging | Published |
| 23-07-2023 | International (UK) | Dr.D.Sunderlin Shibu, Dr.N.Kins Burk Sunil , Mrs. A. Ramcy, Mr.B.Muthupandian, Mrs.G.Vijayalakshmi, Mrs.G.Rubini, Mrs.J.Sherlin Jenifa, Mr.J.Jenu | Flexible Electromyography (EMG) Sensor | Published |
| 26-06-2023 | National | Dr.M.Rajalakshmi, Dr.E.Maheswaran, Dr.N.Kins Burk Sunil , Ms.S.Harishna, Mrs.Mary James, Mrs.D.Julie Bersiyal | AI based Biosensor Device to Detect Breast Cancer | Published |
| 05-01-2023 | National | Dr.E.Anbalagan, Dr.J.Seetha,, Dr.S.Mani, Mr.L.Krishna Kumar, Dr.N.Kins Burk Sunil , Dr.K.Jalal Deen,, Mr.B.Mahesh, Dr.N.Deepa Natesan | Implementation of Type 2 Fuzzy Ontology to Improve Semantic Interoperability for Healthcare & Diagnosis of Depression | Published |
| 12-02-2021 | National | Dr.M.Malathi, Dr.P.Sinthia, Dr.K.Jalal Deen,, Dr.N.Kins Burk Sunil , Ms.D.Elavarasi, Mrs.P.S.Uma Priyadarsini, Dr.Kiran George | Internet of Medical Things based Automated Detection of Breast Cancer | Published |