


Name of the Department: Biomedical Engineering

Name of the Faculty		Dr. B. Suresh Chander Kapali		
Designation		Assistant Professor		
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Qualification		UG	B.E	Electronics and Communication Engineering
		PG	M.E	Medical Electronics
		Ph.D.		Medical Electronics
Specialization/ Major areas of Research		A Non-Invasive Investigatory Study on Thyroid Dysfunction		
Experience		Teaching: 14.5 years	Industry: Nil	Research: Nil
Papers Published in Journals		International : 35		National : nil
Papers Presented in Conferences		International : 20		National : 30

*Awards / Achievements / Funded Projects / Consultancy

- ✚ Selected as Co-editor in Biomedical Engineering Society of India Journal for the year 2021 – 2023.
- ✚ Received certificate of recognition for achieving 100% result in Anatomy and Human Physiology subject in Anna University semester exam.
- ✚ Received certificate of recognition for achieving 100% result in Biomaterial and Artificial organs subject in Anna University semester exam.
- ✚ Received certificate of recognition for achieving 100% result in Biomechanics subject in Anna University semester exam.
- ✚ Received certificate of recognition for achieving 100% result in Medical Electronics subject in Anna University semester exam.
- ✚ Organizing Secretary for National Conferences and Internal Conference.
- ✚ Life Member of BMESI Society.
- ✚ Established and restructured Human Physiology lab, Pathology and Microbiology lab.
- ✚ Conducted Guest lectures and Seminars.
- ✚ Arranged Hospital Visit.
- ✚ Guiding students for the Project.
- ✚ Arranged Industrial visit.

Publication List In International Journals

S.No	Title of the Paper	Name of the Journal	Papers Detail
1.	A Study on Effect of Chronic Alcoholism Leading to Cardiomyopathy-Using HRV as A Tool	Journal of Critical Reviews	Vol 7, No. 5, ISSN: 2394-5125, 2020, Scopus Indexed.
2.	Prosthetic Arm for Amputees Using Voice and Gesture Recognition	Journal of Critical Reviews	Vol 7, No. 5, ISSN: 2394-5125, 2020, Scopus Indexed
3.	Diagnosis of Thyroid Dysfunction in Human Blood Using Non-Invasive Method –Infra Red Light Emitting Diode Technique.	Cluster Computing : The Journal of Networks, Software Tools and Application	Vol 22, No. 6, ISSN: 1386-7857, 2019, IF-1.601.
4.	Isolation, characterization and Sequencing of Lactobacillus from the Oral and Fecal Samples of Healty Dogs	Research Journal of Pharmacy and Technology	Vol11, No. 11, ISSN: 0974-3618, 2018, Scopus Indexed
5.	Assessment of Thyroid Diseases Using Thyroid Stimulating Hormone Estimation as a Tool by IR Led Technique	International Journal of pure and Applied Mathematics	Vol 119, No. 12, ISSN: 1314-3395, 2018, Scopus Indexed
6.	A Non-Invasive Technique to Detect Thyroid Dysfunction using Body Fluid and Temperature	Journal of Chemical and Pharmaceutical Sciences	Special Issue 11, ISSN: 0974-2115, 2017. Anna University Annexure-II
7.	Treatment for Scoliosis Using Pneumatic Control System	International Journal of Engineering and Technology	Vol 7 No 2.24, ISSN No: 2227-524X, 2018, Scopus Index
8.	EEG controlled Carrier Car for Paraplegia Patients.	International Journal of Scientific Research and Review	Vol 7, Issue 4, ISSN: 2279-543X, 2018
9.	Posture Correction for Juvenile Idiopathic Scoliosis Using Flexible Fabric Stretch Sensor.	International Journal of Engineering and Technology	Vol 7 No 2.24, ISSN No: 2227-524X, 2018, Scopus Index
10.	Gait Enhancing Support for Paralysed Person	International Journal of pure and Applied Mathematics	Vol 119, No. 12, ISSN: 1314-3395, 2018, Scopus Indexed
11.	Analysis of Optimal Muscle Fatigue Index Using Multichannel Surface Electromyogram Data Acquisition System.	Internal Journal of Advances in Natural and Applied Sciences	Vol 11, No. 7, ISSN: 1995-0772, 2017, Scopus Indexed. Anna University Annexure-II
12.	Glucose Monitoring And Insulin Control With Closed Loop System.	Internal Journal of Advances in Natural and Applied Sciences	Vol 11, No. 7, ISSN: 1995-0772, 2017, Scopus Indexed. Anna University Annexure-II

13.	A Glove Based Communication Aid for Quadriplegia Patients.	Internal Journal of Advances in Natural and Applied Sciences	Vol 11, No. 7, ISSN: 1995-0772, 2017, Scopus Indexed. Anna University Annexure-II
14.	Human Arm Rehabilitation Using Accelerometer and String Motor Mechanism.	International Journal of Advanced Research Trends in Engineering and Technology	Vol 04, Special Issue 19, ISSN 2394-3777, 2017
15.	Rotation Invariant Texture Analysis of Lung Tumor CT Images Using Radon Transform.	Middle-East Journal of Scientific Research	Vol 24 (4): pp 1551-1557, ISSN 1990-9233, 2016. Scopus Indexed. Anna University Annexure-II
16.	Self Assistance for Asthma Patient using Mobile Application	International Journal of Biological Science and Engineering	Vol. 07, No. 01, pp 11-13, ISSN 0976-1519, 2016
17.	Wired or Wireless Communication used to Control the Medical Equipments in the Hospital using DTMF Technology	International Journal of Biological Sciences and Engineering	Vol. 07, No. 01, pp 08-10, ISSN 0976-1519, 2016.
18.	The Combination of Natural and Synthetic Polymers for Effective Wound Healing in Tissue Engineering	International Journal of Biological Sciences and Engineering	Vol. 07, No. 01, pp 01-02, ISSN 0976-1519, 2016.
19.	Foot Ulcer Treatment by Ultrasound Technique	Middle-East Journal of Scientific Research	Vol 24 (S2): pp 29-32, ISSN 1990-9233, 2016 Scopus Indexed. Anna University Annexure-II
20.	Rotational Invariant Texture Analysis Using Radon Transform in CT Image	International Journal of Advanced Research Trends in Engineering and Technology	Vol 03, Special Issue 19, ISSN 2394-3777, 2016
21.	Brain Evoked Response Audiometry: An Investigatory Tool in Detecting Hepatic Encephalopathy in Decompensated Chronic Liver Disease	Indian Journal of Physiology and Pharmacology	Vol 58, No 1, pp 51-55, 2014. Scopus Indexed. Anna University Annexure-II
22.	Prognosis of Hypertensive Cardiomyopathy and Diabetes Induced Myopathy – a Comparative Study Using HRV as a Tool	World Journal of Medical Sciences	Vol 8, No 4, pp 365-367, ISSN 1817-3055, 2013 Scopus Indexed. Anna University Annexure-II
23.	Nano carriers for Neurodegenerative Diseases – A review	International Journal of Applied biology	Special Issue 1, pp 69-70, ISSN: 2231-3370, 2013
24.	Cardiovascular autonomic response of orthostatic tilt in adult abuse individuals	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 12-14. & ISSN: 2277-5382, 2012
25.	Evaluation of brain stem auditory evoked potential in chronic smokers	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 15-17. & ISSN: 2277-5382, 2012

26.	Evaluation of small airway function in post menopausal women with prolapsed uterus using spirometer	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 21-22. & ISSN: 2277-5382, 2012
27.	Detection of cirrhotic subclinical hepatic encephalopathy by using brain stem evoked response audiometry as a tool.	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 23-26. & ISSN: 2277-5382, 2012
28.	Wireless and multichannel ground fault interrupter circuit-A Review	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 57-58. & ISSN: 2277-5382, 2012
29.	Cause of inhibition of dopamine-and interaction study done on α -synoclein and dopamine transmitter	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 180-182. & ISSN: 2277-5382, 2012
30.	Biomechatronic and cybernetic design of prosthetic hand	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp Pp 46-48. & ISSN: 2277-5382, 2012
31.	Conventional network computation using neutral network	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp 49-51. & ISSN: 2277-5382, 2012
32.	Cracks with detection of a fractured bone using ultrasound technique-A Review	Indian Journal of Innovations and Developments	Vol.1 No. S8 pp178-179. & ISSN: 2277-5382, 2012
33.	Analysis of Cardiovascular Autonomic Functions in Systemic Lupus Erythematosus using Heart Rate Variability	CiiT International Journal of Biometrics and Bioinformatics.	Vol 4, No 4, pp 182-185, & ISSN: 0974-9675, 2012
34	Heart rate Variability in Adult Obese Individuals	CiiT International Journal of Biometrics and Bioinformatics.	Vol 4, No 4, pp 177-181, ISSN: 0974-9675, 2012
35	Determination of Reinfarction Probabilities in certain Heart Ailments by Using HRV as a Tool- An Investigatory Study.	CiiT International Journal of Biometrics and Bioinformatics.	Vol 4, no 4, pp 820-825, ISSN: 0974-9667 IF: 0.36, 2011