

**SSN College of Engineering**  
**Department of Biomedical Engineering**  
**List of internally faculty funded projects**

<b>S.No</b>	<b>Project Title</b>	<b>Principal Investigators / Co Investigators</b>	<b>Funding Agency</b>	<b>Date / Month of Sanction / Commencement</b>	<b>Amount in Rs. (Lakhs)</b>	<b>Year</b>
1	Nanoparticle based strategies to combat orthopaedic implant associated infections	Dr. Guruprakash Dr. Subashini	SSN Trust	09.11.2013	6 Lakh	2015
2	Implementation of finite element analysis (FEA) in bone biomechanics for designing suitable implants using MIMICS and 3D printing technology	Dr. A. Kavitha, Dr. Sachin.G.S	SSN Trust	30.9.2015	6 Lakh	2016
3	Ocimum Sanctum extract coating on biomaterial surfaces to prevent bacterial adhesion and promote tissue integration	Dr. R. Sivarama Krishnan	SSN Trust	08.10.2014	2.5 Lakh	2016

4	Design and Development of Orthotic Exoskeleton for Lower Limb Rehabilitation	Dr. Nithya	SSN Trust	06.10.2016	1.5 Lakh	2018
5	Design of FPGA based non-invasive glucometer using Infrared LED techniques towards continuous glucose monitoring	Dr. L. Suganthi	SSN Trust	10.08.2017	2.20 Lakh	2021
6	Development of an integrated continuous wave near infrared spectroscopy and surface electromyography system for studying the muscles during different activities	Dr. S. Bagyaraj	SSN Trust	10.08.2017	3.11 Lakh	2021
7	Functionalised nasal filter for ABC filtration	Dr. S. Arun Karthick	SSN Trust	10.1.2019	6.65 Lakh	2021
8	Design and development of Hi-Tech composite blades for lower limb amputees	Ms. M. Dhanalakshmi	SSN Trust	10.1.2019	1.95 Lakhs	2021
9	Design and development of wearable textronic system for monitoring physiological parameters	Dr. J. Vijay Dr. S. Saraswathi Dr. S. Arun Karthick	SSN Trust	10.1.2019	3.40 Lakh	2021
10	EMG Analysis of cricket Batsman foreman muscles while executing different phases of batting strokes	Dr.Sachin Gaurishankar Sarate	SSN Trust	29.03.2019	4.5 lakhs	2019

11	Automatic measurement of vocal fold vibratory parameters	Dr.S.Pravin Kumar	SSN Trust	29.03.2019	7.50 lakhs	2019
12	VR for NDD	Ms. B. Divya Ms. S. Vidhusa	SSN Trust	14.11.2019	4.20 lakh	2019
13	Non-invasive portable system to estimate white blood cells from the optical image of nail fold capillary circulation	Dr. K. Nirmala	SSN Trust	14.11.2019	3.50 Lakh	2019
14	Analysing Diabetic Neuropathy-A graph theoretic approach	Dr.R.Sundareswaran, Maths Dr.V.Mahesh	SSN Trust	21.12.2020	2.20 lakh	2020
15	Assessment of Antimicrobial Mechanisms of Biogenic nanoparticles on Microbes	Dr. R. Subashini	SSN Trust	16.12.2021	3.5 Lakh	2021
16	Quantitative Tool for muscle strength Evaluation	Dr.S.Saranya	SSN Trust	16.12.2021	2.9 Lakh	2021
17	Development of an Intelligent System to Characterise Uterine Contractions During Pregnancy	Dr. N. Punitha	SSN Trust	16.12.2021	2.9 Lakh	2021
18	Virtual Reality Based Training Simulator for Dental Education with Haptic Feedback	Dr.L.Suganthi	SSN Trust	24.02.2022	3.5 Lakh	2021