



SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

(Deemed to be University)

Projects & Dissertations 2019/20

Physics

M.Sc. in Physics

NAME	PROJECT TITLE	SUPERVISOR
Tatan Gope	Gamma Irradiation Studies on Lead-Free Piezoelectric Polymer-Ceramic Composites	Dr. Gadige Paramesh
Hema Chander Ch	Study of Coffee-ring Patterns from Droplets of Clay Particle Suspensions	Dr. Gadige Paramesh
M Venkatesh Prasad Sagar Nithishkumar C V	Investigations on the Structure of ^{24}Mg Ground State and Low Lying Energy levels of ^{256}Es	Dr. Gowrishankar R and Dr. K Vijay Sai
Mahendrakar Vaibhav Malhar Anupam Nagar	Time Resolved Third Order Nonlinear Optical Susceptibility Measurements Using Femtosecond Degenerate Four Wave Mixing: Automation and Analysis	Dr. Gowrishankar R and Dr. Shailesh Srivastava
R Sai Santhosh	Design and optimization of a Collimator for a Novel PET system using GATE Simulation Toolkit	Dr. K Vijay Sai
N Saikrishna	Thermoelectric Properties of Quaternary Heusler Alloy RuZrTiAl	Dr. Muralikrishna Molli
Josyula Sai Prashanth and Koushik V	Towards Middle Ear Diagnostics using Low-Cost Optical Coherence Tomography	Dr. Shailesh Srivastava
Ankush Kumar Gupta	Luminescent Borate Glasses for Multifunctional Applications	Dr. Swarup Kundu
Krisanta Rai	Synthesis and Characterization of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7-x}\text{Zr}_x(\text{PO}_4)_3$ solid electrolytes for all solid-state Li-ion Batteries	Dr. Swarup Kundu
Damagatla Sai Vamshi Krishna	Investigation of Nonlinear Optical Properties of PVDF-DAST Polymer Composite	Dr. V Sai Muthukumar
Mallappa Mahadevappa Kumbar	Automation of Nonlinear Optical Properties Measurement Setups	Dr. V Sai Muthukumar

M.Tech. in Optoelectronics & Communications

NAME	PROJECT TITLE	SUPERVISOR
Posam Saikiran	Reactive Wavelength tuning based Defragmentation Algorithm for Enhanced Spectrum Efficiency in Elastic Optical Networks	Dr. Gowrishankar R
VSS Laxman Rao Bellala	An Intent Based Smart Road Traffic Management System Using Software Defined Networking	Dr. Gowrishankar R
Yeddula Sai Kirankumar Reddy	Secure Transport of Medical Data from Edge Gateway to Host	Dr. Gowrishankar R
Prayas Chandra Pradhan	Machine Learning Based Detection of DoS Attacks on Routers	Prof. S Siva Sankara Sai