

N.9: YSRP at RRCAT

In order to encourage young science and engineering students to pursue career in science and technology, Young Scientist Research Programme (YSRP-2019) was organized at RRCAT during May 13th to July 5th, 2019. Under this programme, 12 meritorious students were selected from all over the country to work on various projects in different laboratories of RRCAT. They were provided with a stipend of ₹ 5000 along with free accommodation at RRCAT Guest House and round-trip train fare by II class sleeper. The student selected the projects as per their interest. They got an excellent opportunity to work in the frontier areas of science and technology and interact with experts in the respective fields. The details of the students and respective research projects are given below.



Students of YSRP-2019 with committee members.

At the end of the program, each YSRP-2019 participant gave a seminar and also submitted a project report. All the students were given participation certificates. The program was organized and completed successfully with the support from various divisions/sections/labs, administration, accounts and security of RRCAT.

*Reported by:
Committee for YSRP (banerjee@rrcat.gov.in)*

Name/Institute	Project Title	Name of Guide
Mr. Aniket Chauhan Dehradun Institute of Technology, Dehradun	Detection of ailments in medical images via image classification using deep convolutional neural networks	Shri Gaurav Saxena, AASCS, CD
Mr. Rahul Kumar Raj IIPS, DAVV, Indore	Study and development of malicious IPs /domains detection and management system using machine learning	Smt. Swati Chaudhari, ISNAS, CD
Ms. Mansi Singh NIT, Raipur	Converting commercially available power converters to high stability power converters for electromagnets	Dr. Mangesh Borage, SMPCS, PCD
Ms. Purva Nishikant Anasane RCOEM, Nagpur	Development of intelligent web-server over intranet using Raspberry Pi SBC and open source software	Shri Avanish Ojha, BDS, BDCSD
Ms. Aashka Oza IISST, Thiruvananthapuram	Development of microcontroller based position read out electronics for beam diagnostic devices	Shri A. C. Holikatti, BDS, BDCSD
Mr. Renu Raman Sahu NISER, Bhubaneswar	Strong field quantum electrodynamics with ultrashort light sources	Dr. Manoranjan P. Singh, HRDS, MSD
Mr. Shivam Joshi SVNIT, Surat	Tracking low energy electron beam in an electron gun using CST Particle Studio	Shri Pramod Radheshyam, APS
Ms. S. Bavadharini Bishop Heber College, Tiruchirappalli	Optical orientation under the application of electric field	Dr. Shailesh Khamari, MSS
Mr. Viraj Gujar Fergusson College, Pune	Establishment of a Mach–Zehnder interferometer for femtosecond laser beam and its operation down to single photon per pulse	Dr. J. Jayabalan, NSL, MSS
Mr. Jyolin Anilkumar Kapatel SPU, Vallabh Vidhyanagar	Cerium doped bismuth germanate : single crystal growth and investigation	Dr. R. Bhatt, Dr. I. Bhaumik, CGIS, LFMD
Mr. Arun Rajesh M. SSN College of Engineering, Chennai	Study of flexure mechanism of multi degree of freedom piezoelectric stage for micro-manipulation	Dr. Rahul Shukla, SUS
Mr. Vadiathe Ramesh Kumar Naik, RGUKT, Nuzvid	Metallurgical analysis of 5083 aluminium alloy welds with respect to their reported failures in Indus-2	Shri Rakesh Kaul, Dr. P. Ganesh, LMPD