Sr.No	Student Name Ms Geethika Muralidharan	List of students who caried out project work at RRCAT de Project Title A study of Yb:YAG laser	uring 2015 - 16 University/ Institute Cochin University of Science and Technology	Place Kochi, Kerala
2	Ms Geeta Ms Divya Bharti	Fabrication of frequency selective surface in mid-infrared region Physics of plasma mirror	Banasthali Vidyapith Cochin University of Science and Technology	Rajasthan Kochi, Kerala
4	Ms Priya Khachane	Simulation & development of high power class-D 2 MHz, 4kW RF source for RF based H-ion source	SVKM's NMIMS University	Mumbai
5	Mr R.Sivaraman Mr Subhash Rajak	Design and development of peripherals interface using FPGA, for biomedical imaging and instrumentation Design and development of direct laser writer and its application in fabrication of	Shanmugha Arts, Science, Technology & Research Academy Formerly Bengal Engineering and Science	Tirumalaisamudram, Thanjavur, Tamil Nadu Shibpur , Howrah
7	Mr Anant Jaiswal	microlens lithography Development of FPGA based test setup for performance evaluation of RF front end of digital beam position monitor of Indus- 2	University Indian Institute of Engineering Science & Technology	Shibpur, Howrah
8	Ms Geet Jain Ms Ishita Bhatia	Flow mal-distribution study in cryogenic counter-flow plate fin heat exchangers Software development for Indus-2 front-end and beamline	Devi Ahilya Vishwavidyalaya Devi Ahilya Vishwavidyalaya	Indore
10	Ms Mudamala Maheswara Reddy	Development and characterization of Yb-doped ultrashort all-fiber amplifier systems and its application to material processing	National Institute of Technology	Warangal
11	Mr Devesh Malviya Mr Bhupendra Singh Thakur	Analysis and design of current-fed symmetrical capacitor- diode voltage multiplier Structural analysis of infra-red free electron laser (IR-FEL) beam transport line for	Sam Higginbottom Institute of Agriculture, Technology & Sciences, Shri Govindram Seksaria Institute of Technology	Allahabad, U.P. Indore, M.P.
13	Mr Miti Ranadive	external pressure and pumping power calculation Structural design and vibration analysis of mechanical support system and precision alignment system of free electron laser (IR-FEL)	and Science Shri Govindram Seksaria Institute of Technology and Science	Indore, M.P.
14	Mr Jagadish Chandra Mr Akshay Tyagi	Integration of solid state RF power supplies with FAF CO ₂ laser Synthesis of lithium niobate nanoparticles by modified Sol-Gel method and their	National Institute of Technology Central University of Rajasthan	Warangal
16	Mr Ajaya Kumar Barik	characterization Characterization of indigenously developed hollow cathode discharge lamp for optogalvanic spectroscopy	MIT, Manipal University	Manipal, Karnataka
17	Mr Kiran Ashok Kadam Mr Gaurav Kumar Nagar	1 2 1	Rajarambapu Institute of Technology Amity University	Rajaramnagar, Islampur Jaipur, Rajasthan
19	Mr Rohit Ravindra Desai	Design analysis, development and testing of 20-cell PWT electron linear accelerator structure	Rajarambapu Institute of Technology	Rajaramnagar
20	Ms K.V. Reeja	Preparation and characterization of self-luminescent mesoporous silica nanoparticles for biomedical applications	MIT, Manipur University	Manipal, Karnataka
21	Ms U. Neethu Ms R. Anupamaa	Development of transparent Nd:YAG ceramics for laser host application Saturated absorption spectroscopy in magnetic field for diode laser frequency stabilization	Cochin University of Science and Technology MIT, Manipal University	Kochi, Kerala Manipal
23	Mr Vikas Dubey	Project monitoring system for big data (PMSBD)	KIIT University	Bhubaneswar, Odisha
24	Ms Shiksha Agrawal Ms Nargish Aneshwari	Characterization of pulsed laser deposited niobium carbide thin films Annealing study of Au/Cr bilayer using X-ray reflectivity technique	Pt. Ravishankar Shukla University Pt. Ravishankar Shukla University	Raipur (C.G.)
26	Mr Abhijeet U. Naik	Study and investigation of issues related to simulation of electron beam welding for optimization of weld parameters	Shri Guru Gobind Singhji Institute of Engineering and Technology	
27	Mr Nitesh Kumar Suthar Ms Arshdeep Kaur	Mechanical, thermal and vacuum design aspects of UHV system of super-conducting wavelength shifter system at Indus-2 synchrotron radiation source Growth of heterojunction of CuO-ZnO nanorods	Rajiv Gandhi Prodhyogiki Vishwavidhyalaya Amity University Uttar Pradesh	Bhopal (M.P) Noida
29	Ms Tulika	X-ray reflectivity study of gold film deposited In oxygen environment	AmityUniversity Uttar Pradesh	Noida
30	Mr Vivek Kumar Dhimole Mr Aman Vikram	Mechanical, thermal and vacuum engineering aspects of ultra high vacuum system of APPLE-2 undulator at Indus-2 SRS Nonlinear structural analysis for multi-call SCRF cavity	Shri Govindram Seksaria Institute of Technology and Science, Indore IIEST	Indore Shibpur, West Bengal
32	Mr Krishna Prajapati	A study on multiferroic properties of nanocomposites	Central University of Rajasthan	Ajmer
33	Mr Ajit Kumar Ms Pragya Tiwari	Experimental investigation of tensile properties using miniature samples and its implementation for laser additive manufactured AISI SS304L material Doppler-free spectroscopy using beam of metastable krypton atoms	Indian School of Mines Devi Ahilya Vishwavidyalaya	Dhanbad Indore
35	Ms Divya Aggarwal	Frequency analysis of X-Ray reflectivity data by FFT	Amity Institute of Applied Sciences, Amity University	Noida (U.P)
36	Ms Preeti Chugh	Preparation and optical properties of metal-semiconductor hybrid nanostructures Synthesis and characterization of lead nickel niobate ceramics	Pt. Ravishankar Shukla University AMITY University	Raipur (C.G.) Haryana
38	Ms Niyati Agrawal	Studies on high temperature compatible X-ray refractive lenses for X-ray microfocussing	Pt. Ravishankar Shukla University	Raipur (C.G.)
39 40	Mr Aadil Qadir Bhat Ms Kanupriya Trivedi	Development of low cost electrochemical Biosensor with specific attention to H ₂ O ₂ for potential liver disease diagnostic Development of low cost electrochemical biosensor with specific attention to H ₂ O ₂	Devi Ahilya Vishwavidhyalaya, Indore Devi Ahilya Vishwavidyalaya, Indore	Indore
41	Mr Ashutosh Dwivedi	detection for cholesterol level Laser photo-detachment studies as a diagnostics tool for hydrogen negative H- ion source	Devi Ahilya Vishwavidyalaya, Indore	Indore
42	Ms Anamika Hardel Ms Shalmali Tiwari	Plasmonic properties of Ag/Au nanoparticles grown by different methods and interaction of citrate capped Au nanoparticles with cationic dye and surfactants Synthesis of TiO ₂ nanoparticles by CO ₂ laser pyrolysis, their immobilization and	Pt. Ravishankar Shukla University Pt. Ravi Shankar University	Raipur (C.G.)
44	Mr Atit Pandey	generation of mixed phase of anatase and rutile using laser sintering The influence of isochronal annealing on the microstructure and mechanical properties of FeNiNbB & FeNiNbBCu metallic glasses	Pt. Ravishankar Shukla University	Raipur (C.G.)
45	Mr Murlidhar Dilliwar Mr Rajul Lal Gour	Fabrication and characterization of W/B ₄ C X-ray multilayer Design and characterisation of feedback control loop for magnet power supply in	Pt. Ravishankar Shukla University Jabalpur Engineering College	Raipur (C.G.) Jabalpur
47		particle accelerators Fabrication of electrostatic microactuator for MEMS application	Manipal University Jaipur	Jaipur
48	Mr Himanshu Gautam Ms Bhavini Bafna	Analysis of copper/nickel-based functionally graded materials produced by laser additive manufacturing Study and development of prototype beam position monitor for electron linear	IIT Kanpur Devi Ahilya Vishwa Vidhyalaya	Kanpur
50	Mr Abhishek Parihar	accelerators Fabrication and microscopic investigation of long period fiber gratings	Devi Ahilya University	Indore
51	Ms Geethy Purushothaman Ms Sweta Khare	Study of formation and deposition of nanoparticulate TiO ₂ thin film using langmuir- blodget technique Study and design of field programmable gate array based superconducting radio	Cochin University of Science and Technology Devi Ahilya Vishwavidhyalaya	Cochin
53	Ms Kavita Raghuvanshi	frequency cavity detuning measurement system Plasma based x-ray laser	Devi Ahilya Vishwavidhyalaya	Indore
54	Mr MD Saddam Hussain	Exploration of Ion emission characteristic of intense, ultra-short laser produced plasma Generation of linearly polarized radiation with a CW ytterbium doped fiber laser	Devi Ahilya Vishwavidhyalaya Shri G. S. Institute of Technology and Science	Indore
56	Ms Pooja Bundel		Banasthali University	Banasthali
57 58	Mr Uogesh Uchchasare Ms Anjali Nagwanshi	Studies on gain narrowing compensation in a regenerative amplifier using combined gain media Effect of oxygen deficiency and co-doping on the electrical Properties of BaTiO ₃	Devi Ahilya Vishwavidhyalaya Ravishankar Shukla University	Indore Raipur (C.G.)
59	Mr Avinash Kumar	Optimization of output ripple voltage for full-bridge series resonant SMPS	Jabalpur Engineering College	Jabalpur, M.P.
60	Mr Viji OC Ms Sucheta Khandekar	Growth of benzophenone non-linear optical crystal in natural morphology and in cylindrical forms along <110> and phase matching direction for increasing the yield of Design and development of electromagnetic launcher (coilgun)	Cochin University of Science and Technology Jabalpur Engineering College	Cochin, Kerala Jabalpur, M.P.
62	Ms Shabana Shah	Study of shock wave propagation	Devi Ahilya Vishwavidhyalaya	Indore
63	Ms Ruchi Bhandari	Carrier dynamics studies by resonant probing in semiconductors using non-degenrate pump-probe reflectivity Assembly and characterization of a 2x2 array amplifier for Nd glass laser amplifier for	Devi Ahliya Vishwayidhyalaya	Indore
65	Mr Amit Verma Mr Ajay Patil	Assembly and characterization of a 2x2 array amplifier for Nd:glass laser amplifier for high energy high power glass laser system Development of non-binary x-ray grating for talbot based interferometry and its comparison with binary grating	Devi Ahliya Vishwavidhyalaya Shri G. S. Institute of Technology and Science	Indore
66	Mr Arshad Pathan	Prototype development of permanent magnet based magnetic levitated train working model Provolopment of prototype segment of prototype segment and prototype development of prototype segment of prototype segment and proto	Devi Ahilya Vishwavidhyalaya	Indore
68	Ms Amrin kaur Ishar Ms Mamta Mishra	Development of prototype recipe software for semiconductor layer growth using programmable automation controller Study and development of flaw detection and measurement technique in non destructive testing using ultrasonic	Shri Vaishnav Institute of Technology & Science Devi Ahilya Vishwavidyalaya	Indore
69	Ms Pallavi Nagar	Evalution of a bio compatible dressing for wound healing application	Jayoti Vidyapeeth Women's University Rajiy Gandhi Proudyogiki Vishwayidyalaya	Jaipur
70	Mr Brajesh Lakhera Mr Girish	Structural and magnetic properties of yttrium iron garnets prepared using nano- synthesis and solid-state routes Investigation of structural and band gap properties of metal doped ZnO/ZnO	Rajiv Gandhi Proudyogiki Vishwavidyalaya Pt. Ravishankar Shukla University	Bhopal Raipur (C.G.)
72	Mr Sandeep Jayaswal	heterostructure Growth and characterization of nanostructured optical thin films by glancing angle deposition Experimental study and tasting of rames based optical distributed temperature sensor at	Shri G. S. Institute of Technology and Science	Indore
73	Mr Parmveer Singh Mr Aditya Jain	Experimental study and testing of raman based optical distributed temperature sensor at 532nm wavelength Design and simulation of microstrip antenna to measure electromagnetic radiation	Shri G.S. Institute of Technology and Science Symbiosis Institute of Technology	Indore Pune
75	Mr Anand Gurjar	Studies for constraints in machining of Radio Frequency Quadrupole (RFQ) Structure on 5-axis machining center	Shri Govindram Seksaria Institute of Technology and Science	Indore
76	Mr Badal Salvi Mr Bhrigu Raj Sharma	Study of manufacturing of radio frequency quadrupole Solution growth of benzophenone crystal and investigation of its second and third order	Shri Govindram Seksaria Institute of Technology and Science Rajiv Gandhi Proudyogiki Vishwavidyalaya	Indore Bhopal
78	Ms Pratibha Soni	nonlinear optical properties Thermal spray conductive coating on copper & ferrite and their characterization	Shri Govindram Seksaria Institute of Technology and Science	Indore
79 80	Ms Neha Bhardwaj Ms Shraddha Giri	Growth and effect of dopants on the physical properties of strontium barium niobate by optical floating zone method Studies on closed loop laser power control in a dynamic fashion through temperature	Shri G. S. Institute of Technology and Science Shri Vaishnav Institute of Technology and Science	Indore Indore
81	Mr Ajay Pratap Singh Lodhi	distribution measurement in LAM system A study on sliding wear behaviour of plasma transferred Arc deposited Fe (Iron) clad layer over aluminium alloy	Shri G.S. Institute of Technology & Science	Indore
82	Mr Saurabh Sah Mr Kundan Agrawal	Effect of Al doping on the properties of β-Ga ₂ O ₃ single crystal grown by optical floating zone technique Low current readout electronics development for beamline instruments	Shri G. S. Institute of Technology and Science Devi Ahilya Vishwavidhyalaya, Indore	Indore Indore
84	Mr Ashish Chadar	Growth and investigation of optical and thermoluminescence properties of strontium tetra borate single crystals	Rajiv Gandhi Technical University	Bhopal, M.P.
85 86	Mr Mohit Gupta Mr Raghvendra	Optimization of reactive Ion etching of GaN for optoelectronic applications Spatial sensitivity of radiation beam using quadrant detector	Rajiv Gandhi ProudyogikiVishwavidyalaya Rajiv Gandhi Proudyogiki Vishwavidyalaya	Bhopal, M.P.
87	Ms Anjali Nihore	Surface modification studies on stainless steel and alumina	Devi Ahilya Vishwavidhalaya	Indore
88	Mr Deepak Patidar Mr Akshay Rai	Development of electronic data acquisition system for H ⁻ Ion source plasma characterization using langmuir probe Development of laser diode arrays for pumping the optical fiber medium	Devi Ahilya Vishwavidyalaya Shri G. S. Institute of Technology and Science	Indore Indore
3)	Timy Time		University of Kerala	Thiruvananthapuram, Kerala
90	Mr Vipin Thomas	Effect of cerium doping on optical and scintillation properties of transparent YAG ceramic developed for X-ray detection and imaging application		
91	Mr Nishant Reahal	ceramic developed for X-ray detection and imaging application Development of stepper motor controller using arduino	Punjab Technical University University of Kerala	Jalandhar Thiruyananthapuram.
	-	ceramic developed for X-ray detection and imaging application Development of stepper motor controller using arduino Studies on Yb:YAG transparent ceramics and Tb:Yb co-doped YAG nanophosphor for green emission Unidirectional growth of KDP crystal along [001] direction and fabrication of electro-		Thiruvananthapuram, Kerala Thiruvananthapuram,
91 92 93 94	Mr Nishant Reahal Ms C. Reshmi Mr V.Sachin Mr Rupesh Kumar Verma	ceramic developed for X-ray detection and imaging application Development of stepper motor controller using arduino Studies on Yb:YAG transparent ceramics and Tb:Yb co-doped YAG nanophosphor for green emission Unidirectional growth of KDP crystal along [001] direction and fabrication of electro-optic modulator Information sharing portal for Indus sub-systems	University of Kerala University of Kerala Devi Ahilya Vishwavidhyalaya	Thiruvananthapuram, Kerala Thiruvananthapuram, Kerala Indore
91 92 93	Mr Nishant Reahal Ms C. Reshmi Mr V.Sachin	ceramic developed for X-ray detection and imaging application Development of stepper motor controller using arduino Studies on Yb:YAG transparent ceramics and Tb:Yb co-doped YAG nanophosphor for green emission Unidirectional growth of KDP crystal along [001] direction and fabrication of electro-optic modulator	University of Kerala University of Kerala	Thiruvananthapuram, Kerala Thiruvananthapuram, Kerala