

PSG College of Technology

Details of Centre of Excellence/Research Centres

S. No.	Name of the CoE	Department	Year of Establishment	Faculty-in-charge	Technical/ Supporting Staff	Industry Collaboration	Major Facilities	Carpet Area
1.	PSG-TI Centre of Excellence for Medical Electronics	Biomedical Engineering	4/6/2017	Dr. B. Padmapriya	Ms. R. Nithya	STEPS knowledge services Pvt. Ltd	Medical Meter Portable Tools, Monitoring devices, Wireless Monitors, Imaging Solutions, CPAP Machine	97.52 sq. m
2.	Centre for Environmental Analyses & Solutions	Biotechnology	10/12/2019	Dr. J. Hema	Mr. D. Radhakrishnan		Portable Multi-parameter Analyser; Muffle furnaces; Fume Hood; Low temperature water-bath; centrifuge; shaker incubator; COD digester	400 sq. ft.
3.	Center for Audio Visual Speech Recognition	EEE, IT, CSE	9/9/2019	Dr. L. Ashok Kumar, Dr. D. Karthika Renuka, Dr. S. Lovelyn Rose	Rajalakshmi. C	DST	E-learning content development center	300 sq. ft.
4.	PSG- Keysight Technologies Centre of Excellence in Advanced Wireless Technology	ECE	3/5/2012	Dr T Kesavamurthy	Mr Sukumar	Keysight Technologies	RF Software tools, MIMO Hardware Platform, 4G & 5G PXB,VNA, Computing facilities, RF Test Measuring Hardwares	900 sq. ft
5.	Centre of Excellence for Signal Processing (CESP)	ECE	4/5/2019	Dr. S. Mohandass	Mrs. V. Umarani	Texas Instruments (TI)	Advanced DSP Processors and Controllers for Signal, Image and Video Processing Code Composer Studio (CCS) Advanced Imaging System with Cameras, Lenses and Software Sensors for IoT applications, Audio Signal Modules	1050 sq. ft

6.	VLSI Design Centre	ECE	5/4/2015	Dr. P. Kalpana	Mr.S.Udhayashankar, Mr. P. Madhankumar	MeitY, India	Software- Cadence, Synopsys, Mentor Graphics, Xilinx . Hardware - Xilinx, Altera FPGA boards	990 sq. ft
7.	PSG – ROCKWELL Centre of Excellence in Industrial Automation	I & CE		Dr. D. Angeline Vijula	Mrs. S. Latha		1 MicroLogix 1400 32 Point Controller 2 Kinetix 300/350 I/O Breakout Board 3 Compact Logix 1 MB Motion Controller 4 Micro 820 20I/O ENet/IP Controller 5 Kinetix 350 400W Servo Drive 6 Flex EtherNet/IP Adapter 7 TL-Series TLY 240VAC Rotary Servo Motor 8 PANEL VIEW 8004.3-INCH HMI TERMINAL 9 Micro logix 1500 10 Micro logix 1000 device net Panel 11 Control Logix-5571 12 ALLEN BRADLEY SOFTWARE: 9398 EDCKIT 5B 13. Pilot Plant for demonstrating PLC applications	127.6 sq. m
8.	PSG BCC Learnovate Center	IT	5/22/2019	Dr.N.Hema Priya	Balasubramanian	Boston Creative company	Environment for In-house internship	100 sq. ft.
9.	Engineering Design Centre	Mechanical		Dr.Prabhu Raja V and Mr. Mohanraj S	Mr. Senthilkumar. G		Engineering design centre is equipped with computer hardware and application software to solve academic problems as well as computationally intensive industrial problems that	2340 sq. ft.

							involve modeling and analysis of mechanical systems.	
10.	PSG-RANE Centre For Manufacturing Systems	Mechanical		Dr. Ragu K and Dr. Prasanth A S	Mrs.Rohini P	RANE Holdings Limited (RHL)	The laboratory offers insights to postgraduate students for programming of robots, calibration of sensors and control of actuators.	930 sq. ft.
11.	Sensorics Laboratory	Mechanical		Dr.Udhayakumar S and Mr. A. Mohan	Mrs.Durgavathi R		Strain gauges, LVDT, hot wire anemometers, pressure sensors, proximity sensors (inductive, capacitive and optical), ultrasonic sensors, thermocouples, RTDs, vision cameras are some of the sensors available in the laboratory. The interfacing aspect of these sensors is studied in detail by the students.	1200 sq. ft.
12.	DST-FIST Noise And Vibration Laboratory	Mechanical		Dr. Yuvaraja M and Dr.Syath Abuthakeer S	Mrs.Rohini P		The laboratory includes hardware and software, data acquisition and interfacing systems for online monitoring and control of noise and vibrations.	1140 sq. ft.
13.	Energy Engineering Laboratory	Mechanical		Dr. Prabu T, Dr. Babu S and Dr.Viswanathan P	Mr. Kubendran T		The laboratory is dedicated to research on energy systems with state of the art design and simulation software.	1600 sq. ft.
14.	Industrial Engineering Laboratory	Mechanical		Dr. Jayachitra R	Mrs.Durgavathi R		Various equipments are available in the laboratory namely Multifunction motorized treadmill, Fitness Bike, Anthropometry data set, Hand Evaluation set,	1200 sq. ft.

							Noise Level Meter, Light Meter, Hygrometer, blood pressure Meter, Heart Rate Monitor, Spirometer, 5 S Kit, Torch factory Kit, Video camera and software's namely Timer Pro, 3DSSPP & Minitab. The major research activities being carried out are Basic research, Product Ergonomics and Biomedical Ergonomics.	
15.	Lean Manufacturing Laboratory	Mechanical		Dr.Rajenthirakumar D and Dr.Karthik T	Mrs.Durgavathi R		The laboratory curriculum comprises state-of-art techniques to plan, design, implement and manage integrated lean systems of men, materials, capital, information and technology.	1200 sq. ft.
16.	PG CAE Laboratory	Mechanical		Mr.Shanmuga Sundaram D, Mr.Vijayanand V and Mr.Arun Ramnath R	Mr.Senthilkumar G		PG CAE hardware facilities include networked computers with latest configuration and high end PC workstation. PG CAE lab is furnished with latest modeling and analysis software packages.	1170 sq. ft.
17.	Centre For Sheet Metal Processing	Mechanical		Dr.Ramesh Babu A	Mrs. Rohini. P		The main objective of the present research is to find the effective nesting strategy for producing a variety of sheet metal products with varying requirements. The laboratory has in addition to other equipment a MESSER make CNC thermal cutting machine.	1200 sq.ft.

18.	Advanced Machine Tool Research Centre	Mechanical		Mr. Sadesh K	Mr. Senthil Kumar G		The purpose of this laboratory is Development of Alternate Materials for Improving Dynamic Response and Damping Properties of Machine Tool Structures	3975 sq.ft.
19.	Centre for Alternate Cooling	Mechanical	12/18/2018	Dr. L. Ashok Kumar and Dr. Madhu Ganesh	R. Venkatesh and R. Arun Kumar	DST India and Trident Pneumatics Coimbatore	solar parabolic trough collector, solar linear Fresnel collector, solid desiccant cooling system, liquid desiccant cooling system	1170 sq. ft.
20.	GRD Center For Materials Research	Physics	9/14/2011	Dr. P. Kathirvel			High Temperature Heating Furnace(1300 Degree) Single Crystal Puller Unit Tubular Furnace Hydrothermal Unit UV Cabinet Spin Coater Digital Weighing Balance Magnetic Stirrer With Hot Plate Centrifuge Unit	1000 sq. ft.
21.	Centre for Nonlinear Dynamics	Physics	12/29/2017	Dr.R.AMUDA	Ms.Ponsudana. M Research Fellow	NIL	Computer systems	25 sq. m
22.	Centre for Surface Science	Physics	6/1/2017	Dr.R.BALASU NDARAPRAB HU	NIL	NIL	Sputtering unit, UV-VIS-IR Spectrophotometer, solar simulator	108 sq. m.
23.	PSG Festo Centre for Robotronics	Robotics and Automation Engineering	2/25/2016	Ms.V.Vishwa Priya, Dr.S.Prabhakaran	Mr.T.Padmanaban	NA	Pneumatic Automation	71.7 sq. m
24.	PSG-Siemens Centre of Excellence in Automation	Robotics and Automation Engineering	7/15/2013	Dr.M.Sundaram, V.Parvathi Priya	Mr.T.Padmanaban	NA	PLC, HMIs and SCADA Systems	105.9 sq. m
25.	PSG-Adept Centre for Robotics	Robotics and Automation Engineering	6/6/2011	Dr.P.D.Rathika	Mr.V.Vijayakumar	NA	Industrial Robots	53.23 sq. m

26.	PSG-Danfoss Centre of Excellence for Climate & Energy	Robotics and Automation Engineering	7/15/2013	Dr.M.Sundaram,Ms.B.Bindu	Ms.B.Thilagavathi	Danfoss Industry	Industrial drive, Refrigeration	144.92 sq. m
27.	PSG -EPLAN Centre of Excellence for Efficient Engineering	Robotics and Automation Engineering	7/12/2017	Dr.S.Prabhakaran,Ms.Harsha Gopinath	Ms.R.Rubini	EPLAN Softwares & Systems	Automation Systems design	83.6 sq. m
28.	PSG-Fanuc Centre for Advanced CNC and Robotics	Robotics and Automation Engineering	8/11/2008	Dr.B.Vinod	Ms.T.Rajendran	FANUC Industry	Robot CNC Mechanics and	334.45 sq. m
29.	PSG Beckhoff PC Based Automation Technology	Robotics and Automation Engineering	8/1/2016	Ms.V.Parvathi Priya,Dr.P.D.Rathika	Mr.T.Padmanaban	Beckhoff Automation	Industrial Networking and IIoT	51.1 sq. m
30.	DST – FIST Textile product development centre	Textile Technology	7/12/2010	Dr.J.C.Sakthivel	Mr.T.Gunasekaran	DST, New Delhi	Miniature spinning machines (Carding, Drawframe, Simplex, Ring spinning, Rotor Spinning, TFO, Fancy Doubler), Single end Sizing, Warping, Narrow loom.	74 sq. m.
31.	Textile Composite Laboratory	Textile Technology	6/1/2018	Dr.J.Krishnasamy	Mr.P.Mahendran	TEQIP III	Compression Molding machine, Izod Impact tester	45 sq. m.
32.	Centre for Excellence of Industrial and Home Textiles	Textile Technology	3/31/2011	Dr.G.Thilagavathi	Mr.V.Muthukumar	Ministry of Textiles, New Delhi	Needle punching nonwoven production, UV Flat bed printing, Hot melt lamination and coating, Wipes, Textile testing instruments	2017 sq. m.