Let there be charity, so that other people may share my family’s prosperity...

- P. S. Govindaswamy Naidu

A man of vision, faith and integrity, whose initials PSG have become a living legend at Coimbatore.

At a time when education was an unfulfilled dream for most Indians, one man’s vision set out to make that dream a reality. In one visionary statement, Mr. P. S. Govindaswamy Naidu shaped the destinies of thousands and thousands of aspiring learners of Coimbatore. On 25th January 1926, a Trust under the name and style of P. S. Govindaswamy Naidu & Sons’ Charities was formed. This Trust is dedicated entirely to the growth and development of education, training, industry and social upliftment. PSG College of Technology, now an institution of academic excellence, was founded in the year 1951 by PSG & Sons’ Charities Trust with Dr. G.R. Damodaran, a legend and a great visionary as the Founder Principal.

Under the able guidance of illustrious Managing Trustees, Late G.R. Govindarajulu, Late Dr. G.R. Damodaran, Late G. Varadharaj, Sri G.R. Karthikeyan, Late Sri V. Rajan, Sri G. Rangaswamy and Sri L. Gopalakrishnan, PSG Tech grew to become a landmark in the field of technical education in India.

MISSION OF PSG TECH

Our mission as an institution is to provide world-class engineering education, foster research and development, evolve innovative applications of technology, encourage entrepreneurship, ultimately mould young men and women capable of assuming leadership in the society for the betterment of the country.

POINTS OF PRIDE

The emphasis of PSG & Sons’ Charities Trust is on vocational education & production oriented industrial training. In order to achieve these objectives, the founders wisely decided to locate PSG College of Technology in the same campus of the PSG Industrial Institute, which is a pioneer today in the manufacture of several engineering products, like agricultural pumps, industrial motors and high quality specialty castings. A unique feature of PSG College of Technology is the close collaboration of educational institution and industry, resulting in the cross fertilization of theory with practice.

GROWTH OF PSG TECH

Recognizing the excellent infrastructure, faculty, progressive outlook, high academic standards and achievements, the University of Madras reposed abundant confidence in the capabilities of the College and PSG College of Technology was conferred Autonomous status in the year 1978 that gives authority to the college to update its own programmes and curriculum, to devise and conduct examinations, and to evaluate students’ performance based on a system of continuous assessment. The academic programmes are designed and updated by a Board of Studies at the Department level and Academic Council at the college level. These statutory bodies have experts from top notch academic institutions and industry professionals as members.

The College, an AICTE approved institution is affiliated to Anna University and is an ISO 9001 certified Institution. Most of our programmes have been accredited by National Board of Accreditation (NBA). Sedulous progress has been the hallmark of PSG Tech. The growth and development of the college owes much to the untiring efforts of Dr. G.R. Damodaran, Founder Principal of PSG College of Technology. Presently, Dr. R. Rudramoorthi is the Principal of the Institution.

Currently the College has a strength of nearly 9200 students and has the following Departments and Programmes.
Under Graduate Programmes

Bachelor of Engineering / Technology
- Automobile Engineering
- Biomedical Engineering
- Civil Engineering
- Computer Science & Engineering
- Electrical and Electronics Engineering
- Electronics & Communication Engineering
- Instrumentation and Control Engineering
- Mechanical Engineering
- Metallurgical Engineering
- Production Engineering
- Mechanical Engineering (Sandwich)
- Electrical and Electronics Engineering (Sandwich)
- Production Engineering (Sandwich)
- Robotics and Automation Engineering
- Bio Technology
- Fashion Technology
- Information Technology
- Textile Technology
- Textile Technology (Part Time)

Bachelor of Science
- Applied Science
- Computer Systems and Design

Post Graduate Programmes

Master of Engineering / Technology Programmes
- Applied Electronics (Full Time)
- Applied Electronics (Part Time)
- Automotive Engineering
- Biometrics and Cyber Security
- Communication Systems
- Computer Science & Engineering
- Computer Integrated Manufacturing
- Control Systems
- Electrical Machines (Part Time)
- Engineering Design
- Embedded & Real Time Systems
- Energy Engineering
- Industrial Engineering (Full Time)
- Industrial Engineering (Part Time)
- Industrial Metallurgy (Full Time)
- Industrial Metallurgy (Part Time)
- Infrastructure Engineering
- Lean Manufacturing
- Manufacturing Engineering
- Production Engineering (Part Time)
- Power Electronics & Drives
- Product Design and Commerce
- Structural Engineering (Full Time)
- Structural Engineering (Part Time)
- Software Engineering
- VLSI Design
- Virtual Prototyping and Digital Manufacturing
- Wireless Communications
- Bio-Technology
- Information Technology
- Textile Technology (Full Time)
- Textile Technology (Part Time)
- Nano Science and Technology

Post Graduate Programmes in Science and Computer Applications
- MCA (3 Years)
- MSc Applied Mathematics (2Years)
- MSc Data Science (5 Year integrated)
- MSc Theoretical Computer Science (5 Year integrated)
- MSc Software Systems (5 Year integrated)
- MSc Fashion Design & Merchandising (5 Year integrated)

Post Graduate Programmes in Management
- MBA
- MBA (Part Time)
- PGDM

Research Programmes

MPhil (Full Time & Part Time)
- Mathematics
- Physics

PhD (Full Time & Part Time)
- OFFERED IN ALL DEPARTMENTS

Research Projects
- Automotive Embedded systems

Department of Biotechnology
- An Integrated System for treatment of textile industry wastewater, Royal Academy of Engineering, UK (Newton Bhabha Fund)
- Rural Women Technology Park for Coimbatore District, Tamilnadu: sponsored by DST, Govt.
- Ultrasound assisted biomass derived heterogeneous catalytic system for biodiesel production from non-edible oils; sponsored by SERB, Govt.
- Study on RAGE amyloid interactions with relevance to AD pathology and influence of G825R Rage polymorphism on the above interaction; sponsored by DST, Govt.
• Studies on Omega3 desaturase genes in Sesamum indicum Linn to improve oil quality; sponsored by DST, Gov
• Pilot scale demonstration of a novel water defluoridation unit for rural areas; sponsored by DST, Gov
• Vetiver based Treatment System for Textile industry Wastewater, sponsored by DBT, Gov
• Development of porous scaffold for bone implant; sponsored by DST, Gov
• BIOMEMS device for separation of bioparticles; sponsored by DBT, Gov

**Department of Computer Science Engineering**
• PSG- Nokia Research on Big Data Analytics and Cloud Computing.
• UGC sponsored project on Sustainable Agriculture through crop disease resistance using bioinformatics on hybrid CPU-GPU clusters
• AICTE sponsored project on Cloud Based Dynamic Service Discovery for Emergency and Management
• The Green Cloud Project: Innovative
• Product Lifecycle Management Solutions through Energy Efficient Cloud Computing for SMEs; sponsored by AICTE and Siemens.

**Department of Electrical and Electronics Engineering**
• Development of Interactive Hydraulic Activated Device for Chronic Post Stroke Therapy; sponsored by DST
• Design & Development of Wireless Embedded Microcontroller Based Portable Nano Scale Toxic Gas Sensor System; sponsored by UGC
• Design and Development of Pneumatic Actuated Wearable Hand and Forearm Device for the Rehabilitation of Recovering Stroke Patients; sponsored by DST
• Solar Energy based Desiccant loop Air-Conditioning; sponsored by DST.
• Design & Development of Smart Microgrid using Renewable Energy Sources; sponsored by AICTE.
• Design and Development of a Humanoid; sponsored by AVON Corporation.

**Department of Electronics and Communication Engineering**
• Indigenous Design and Development of Digitally Secured Smart Padlock for the Rural and Economically Backward Community People of India, AICTE Sponsored Project under Unnat Bharat Abhiyan Scheme.
• Design and Development of Wireless Embedded Microcontroller based Portable Nanoscale Toxic Gas Sensor system; sponsored by UGC.
• Design and Development of Indigenous Phased Array RF Volume Coil for 1.5 Tesla Magnetic Resonance Imaging; sponsored by DST.
• Special Manpower Development Programme for Chip to System Design (SMEDP - C2SD); sponsored by MeitY.
• Design and Development of GSM Emergency communication Network Base station based on universal software radio Peripheral; sponsored by UGC.
• Design and development of intelligent secret image recovery techniques using visual cryptography and heuristic optimization techniques for Healthcare application; sponsored by UGC.
• Design & Development of CAP Based Wireless System for Multichannel EEG Recording ; sponsored by DST.
• Test Bed Architecture for authentication, Confidentiality integrity of sensitive DICOM images, sponsored by AICTE.
• Visual intuition and scene categorization for MAV Navigation; sponsored by DARO/DST.
• Fabrication of Nanoscale Biosensor for cholesterol detection; sponsored by UGC.
• Design and Development of Multi-parameter Pain Monitoring System for Children; sponsored by DST.

**Department of Fashion Technology**
• Design and development of skin - fabric friction tester and measurements of in vivo and in vitro friction properties of human skin sponsored by University Grant Commission, New Delhi.

**Department of Information Technology**
• Deep learning for Health Informatics.
• Semantic integration of Biomedical Ontologies.
• Sentiment Analysis using Artificial Intelligent Techniques
• Improving GoS in wireless LAN.

**Department of Instrumentation and Control Systems Engineering**
• Design and Development of Embedded Vision Based Therapy System for Yoga Therapy; sponsored by DST SERB.
• Sensor Development for the Detection of Oil Debris in Gas Turbine Applications, (Collaborative Project with the Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli), Sponsored by Gas Turbine Research Establishment, DRDO, Bangalore.

**Department of Mechanical Engineering**
• Alternate Materials for Improving Dynamic Response and Damping Properties of Machine Tool Structures
• Solar Energy based Desiccant Loop Air Conditioning
• High Speed Machining of Aerospace Alloys using New Generation PVD Coated Cutters
• Development of Thermal Mixer for Ramjet Testing
• Vibration Control in Domestic Small Horizontal Axis Wind Turbine
• Development of a Candidate Dielectric Fluid based Cooling System for Solar Panel Performance Enhancement: Numerical and Experimental Investigations
• Investigations on Size Effects and Material behavior at Elevated Temperature Micro Extrusion Process
• Wind- Solar Hybrid Cold Storage Facility for Fisher Folks
• Notch Acuity based Tensile Property Studies of Hardened Bearing Steels for High Thermal Application
• Design and Development of PCM based Pilot Solar Hybrid Thermal Storage System for Low Temperature Application

**Department of Metallurgical Engineering**
• Synthesis and Characterisation of Zircon Sand /Al-Zn-Mg alloy composites; sponsored by UGC.
• Establishment of Centre of Excellence in Welding engineering and technology sponsored by Department of Heavy Industry, Government of India. (Rupees 26.7 Crores)

**Department of Production Engineering**
• Development of an Adaptive Control System for Precision Machining of Aircraft Aluminium Alloys at Near Minimum Material Zone With Targeted Mean; sponsored by ARDB, New Delhi
• Experimental Investigation on Sound and Vibration Damping Characteristics of Green Sandwich Composites; sponsored by AICTE New Delhi.
• Ergonomic Investigations on Manual Tasks in Manufacturing Workplaces to Reduce Fatigue and Improve Productivity; sponsored by AICTE New Delhi.
• Experimental Investigations on Surface Topography in Micro-milling of New Ti-Nb-Ta based Alloys for Biocompatibility in Medical
Implants; sponsored by DST, New Delhi.
- Vision-based precision entry into buildings and landing on elevated flat surface, funded by Aeronautics Research and Development Board (ARDB), Ministry of Defense, Govt. of India.
- Design and Development of Robotic Endotrainer, funded by Global Innovation and Technology Alliance (GITA), DST.
- Design and Development of Solar panel Cleaning Robot, funded by DST - SERI.
- Development of High temperature servomotor, funded by Board of Research in Nuclear Sciences (BRNS) of the Department of Atomic Energy (DAE).
- Automated Welding station, funded by Department of Heavy Industry (DHI), Ministry of Heavy Industries, Govt. of India.
- Intelligent welding power source, funded by Department of Heavy Industry (DHI), Ministry of Heavy Industries, Govt. of India.

**Department of Robotics and Automation Engineering**
- Design & Development of Robotic Endotrainer
- Design & Development of Smart Autonomous In-Service Inspection and Cleaning Ground Vehicle for Large Scale Solar PV Farms
- Experimental Investigation on Sound and Vibration Damping Characteristics of Green Sandwich Composites
- Automated Welding Systems for Specific Industrial Applications
- Intelligent Welding Power Supply System with wave form Shaping Techniques.
- Smart Submersible (6 Inch) Pumping Solutions for Industrial and Water Supply Applications
- Design & Development of Technology for High Temperature Brushless Servo Motor for ISI-systems for NPP in India
- Investigation on thermally assisted friction stir welding of nickel based superalloy for gas ducts in Cryogenic and Semi Cryogenic Engines

**Department of Textile Technology**
- Centre of Excellence in Industrial Textiles to the tune of 25 Crores; sponsored by Ministry of Textiles.
- Focus Incubation Centre; sponsored by Ministry of Textiles 2.85 crores
- Development of Jute/Jute Blended Fibrous Mat for Effluent Filtration Applications; sponsored by Ministry of Textiles
- Vetiver Based Treatment System for Textile Industry Wastewater; sponsored by DTB.
- Development of Oil Sorption and Sound Absorption Pad using Natural Fibre Based Non Wovens Textiles; sponsored by UGC Development of Antimicrobial Silk Suture Materials; sponsored by AICTE
- Empanelment of Assessment Agencies in Textile and Clothing Sector; sponsored by Ministry of Textiles
- Skill Training Programme AICTE-PMKVY.

**Department of Computer Applications**
- Investigation of Routing Algorithms in Mobile Adhoc Networks;
- Classification using Pattern Matching and Rule Mining;
- Investigation on Link Prediction in Social Networks;
- Parallel and Distributed Computational Intelligence Algorithm for Portfolio Optimization in Financial Engineering;
- An Intelligent System for Automatic supply of Fertilizers for Greenhouse Environment

**Department of Apparel and Fashion Design**
- Design and development of functional wear for the elderly, sponsored by University Grants Commission - South Eastern Regional Office, Hyderabad.

**Support to Startups**
PSG-Science & Technology Entrepreneurial Park (PSG-STEP)- an incubation centre of PSG College of Technology has been established in about 100,000 sq. feet to promote technology based startups in the areas of ICT, Electronics, IoT, Biomedical, Nano Technology, and Biotechnology. It extends innovation fund, seed fund, mentoring and networking support along with the incubation support to tech startups. It leverages the state of art facilities of the college to convert ideas into products.

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**National Institute Ranking Framework (NIRF)**
Ministry of Human Resource Development (MHRD) Government of India

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Ranked in the Band 301-350 under Asia University Ranking 2018 by Times Higher Education (THE)

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**PSG COLLEGE OF TECHNOLOGY**
(Govt. Aided Autonomous Institution & ISO 9001 : 2008 Certified)
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