



PSG COLLEGE OF TECHNOLOGY
Coimbatore



BE MECHANICAL (SANDWICH)

**Programme
Brochure**



THE INCEPTION

The Management of PSG Institutions, considering the proximity of PSG Industrial Institute and PSG College of Technology decided to start an innovative industrially oriented programme which provides hands-on training along with academic courses. The Government also felt that this course could provide students with a better platform to learn and hence approved the course by Government order in G.O. Ms. No.2280 Department of Education, Science and Technology in the year 1983, thereby permitting PSG College of Technology to start a full time Bachelor Degree in Engineering in Sandwich mode. The Sandwich course covered Mechanical Stream and Electrical Engineering. Dr. M. G. Ramachandran, then honourable Chief Minister inaugurated these sandwich programmes at PSG College of Technology on 19th October. 1983. The syllabi of training programmes for this innovative B. E. programme have been framed with a view to impart sound practical knowledge and industrial skills to help the students in their professional career and entrepreneurial ventures.

PURPOSE

There is a proverb that is attributed alternately to the Chinese and to Native Americans that says "Tell me and I'll forget; show me and I may remember; involve me and I'll understand." The Sandwich programme works and relies entirely on this philosophy.

The greatest challenge to framers of a curriculum lies in bridging the gap between incorporeal concepts and the real world out there. The Sandwich curriculum is the best possible solution to the challenge thereby merging both theory and practice in the right proportion. The course provides a golden opportunity to physically implement and analyse the core concepts of Engineering in various Industrial Backgrounds enabling a deeper understanding of technical concepts. The 5 year programme inculcates in-field training, thus enabling the students to confront any crises strategically. The final phase of the industrial training focuses on executive skill development which hones managerial skills and helps smoothen the transition to that rare breed of well groomed professionals. The on campus manufacturing facility provides a conducive atmosphere for students to explore while they learn.

PSG INDUSTRIAL INSTITUTE

PSG Industrial Institute was started in the year 1926. The institute serve as an educational centre as well as an industrial production centre. The students undergo 3 hours of training everyday for a period of 5 days a week.

The Institute has 3 major divisions :

HEAVY ENGINEERING DIVISION :

Manufacturing of conventional lathes and special purpose machines.

ROTATING MACHINERY DIVISION :

Manufacturing submersible motors and pumps.

FOUNDRY DIVISION :

Producing quality castings of ductile iron, cast iron & special alloy to cater to the needs of the above two divisions as well as outside customers.

TRAINING PROGRAMME

Objective:

The main objectives are:

- To introduce the students to industrial practice.
- To develop ability to identify industrial problems and build capabilities to solve them.
- To impart hands on training in the areas of manufacturing, assembly, quality control and maintenance.
- To create awareness on safety, housekeeping and plant engineering.
- Make them understand the importance of team work.
- Interdependence of different departments and methods of documentation.
- Build self confidence.

Training Methodology :

- On the job training in shop floor.
- Training in industries with diverse manufacturing activities.
- Seminar presentations.
- Role play – Along with training engineers.



DEPARTMENT OF MECHANICAL ENGINEERING

About the Department :

The Department of Mechanical Engineering was established with an UG Programme in Mechanical Engineering in the year 1951. The BE Mechanical Sandwich Programme was started in the year 1983. Right from the start, thrust has been given to practical and industry oriented research and development. It offers four PG Programme and Ph.D. Programmes also. This ensures the continuous interaction with industry altogether.

Academic Syllabus :

The course curriculum is meticulously designed to provide the students with a strong foundation in basic and advanced engineering techniques, scientific methods and creative thinking. Courses like Design for Manufacture and Assembly (DFMA), Concepts of Engineering Design and Technology Laboratory are unique features of the department. These courses are framed exclusively by faculty with their vast experience over the years gained through their interactions with PSG Industrial Institute and many other reputed industries. **This curriculum is the same as that of the 4 year mechanical engineering course but spread over a span of 5 years to accommodate intensive industrial training.** The programme is taught by the same faculty and the evaluation is common. The Department also offers a full fledged **three months compulsory internship** after the third year for Sandwich students. They are given the opportunity to work in various industries across the country to gain a practical insight.



Training Syllabus : (The practical training is divided into 5 levels)

- YEAR 1 : Orientation Training programme
- YEAR 2 : Basic Technical Training programme
- YEAR 3 : Intensive Technical Training programme
- YEAR 4 : Training Programme in External Industry
- YEAR 5 : Executive skill development programme

STUDENTS' ACHIEVEMENTS

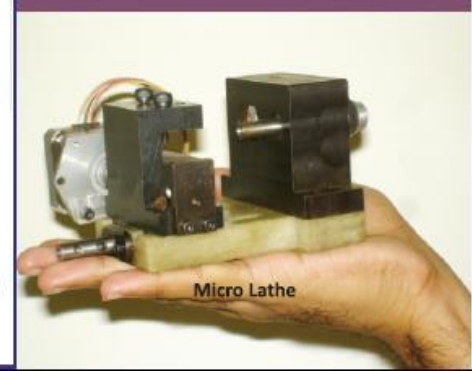
- The students of 1996-2001 batch have compiled the conventional PSG Design data book into a Compact Disk which has been upgraded into a Web Portal by 2006-2011 batch.
- The students of 2003-2008 batch did extensive research on the Welding process and compiled their entire work in the form of a CD . This CD covers all the topics on Welding. This is used as a reference material in Lawrence Technological University, US.
- Mr. J. Jayanth a student of the 2005-2010 batch was selected to attend the International Innovation Camp conducted by IFEST & RPI, New York, United States.
- The students of 2006-2011 came up with an interesting concept of "Micro Factory". They designed and fabricated a Micro lathe which can be controlled using LabVIEW. This lathe can turn workpiece as small as 2 mm.

SANDWICH - AT A GLANCE

S.No.	Question	YES	NO
1	Are the syllabi and grading system of the 5 year BE Sandwich programme same as that of 4 year BE programme?	✓	
2	Is this 5 year BE Sandwich Programme a part time programme / evening college?		✓
3	Does this 5 year BE Sandwich programme have AICTE approval?	✓	
4	How many extra hours do the 5 year BE Sandwich students spend in industrial training compared to the 4 year BE students in their curriculum?	Around 2000 hours for the entire 5 year duration	



PSG Design Data Web Portal



ELITE SANDWICH ALUMNI

Mr. S. Baskaran, Managing Director, Hepatica Technologies Pvt. Ltd., Bangalore

Mr. N. Shyamkumar, Managing Director, Pacific Pipes Systems Pvt. Ltd., Ahmedabad

Mr. V.R. Kali Ramesh, Managing Director, RAC Steels, Vellakovil, Karur

Mr. G. Ashok Kumar, Manager, Corporate Technology Centre, TI India limited, Chennai

Mr. Kothandan Ramalingam, Consultant, Microsoft Global Services India Pvt. Ltd., Hyderabad

Mr. R. Thangamuthu, Senior Business Intelligence Consultant, CIBER Novasoft Ltd., London, UK

Mr. S.S. Senthilmani, Senior Manager, Research & Development, Bajaj Auto Ltd., Pune

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PSG COLLEGE OF TECHNOLOGY

PEELAMEDU, COIMBATORE 641 004

Phone : 0422 - 2572177, 2572477, 4344777

Fax : 0422 - 2573833 Email : principal@psgtech.edu