

PSG COLLEGE OF TECHNOLOGY

PEELAMEDU, COIMBATORE-641 004 2017-2018

Information Brochure

BSc COMPUTER SYSTEMS & DESIGN

BSc Computer Systems and Design (erstwhile Computer Technology) programme aims to provide the foundations of computer science to the students. The programme equips the students with necessary skills for a successful career in the field of computing as well as to continue further higher studies in computer related disciplines. This programme emphasizes development of programming skills, understanding system design tools and technologies for effective problem solving. The students will have the facilities for getting trained in well-equipped laboratories and on various sophisticated computer systems available in college.

THE COLLEGE

PSG College of Technology, an institution par excellence today, was founded in 1951 by the PSG Sons Charities. The College has been in the vanguard of innovation in technical education and applied sciences, and over the years has taken giant strides and transformed itself into a prestigious centre for advanced studies in several faculties of Engineering, Technology, Applied Sciences, Management Studies, and Computer Science & Applications.

THE DEPARTMENT

The department of Applied Mathematics and Computational Sciences comprises of dedicated faculty members who are undoubtedly the assets worthy of mention. The department is known for its discipline and for the importance it gives to the overall development of students in grooming them towards becoming good software professionals and research scientists. The department has its own library with latest books. The computer centre is equipped with the most recent hardware and software. To keep in touch with the ever-growing technology, the faculty members participate regularly in refresher courses and symposia conducted by various Universities, Research Institutions and Professional Bodies like Computer Association of India and Association of Computing Machinery. The department organizes technical symposia at national and international levels at regular intervals. Apart from stressing on consistent and good academic performance, the department encourages participation in co-curricular and extracurricular activities to bring out the talents in its students. The students are provided with ample opportunities to improve their organizational skills and group dynamics.

PLACEMENT

The curriculum and syllabi of all courses are being updated regularly to reflect the technology. Our BSc Computer Systems and Design graduates are placed in well-renowned IT industries like Cognizant, TCS, Wipro, Infosys, Deloitte and many more.

SCOPE FOR FURTHER STUDIES

BSc Computer Systems and Design graduates are eligible for admission to MCA, M.Sc Computer Science / IT and MBA programmes.

COURSE STRUCTURE

Assembly Language Programming Lab

B.Sc. (COMPUTER SYSTEMS & DESIGN)	
SEMESTER 1	SEMESTER 4
Theory	Theory
Calculus & Its Applications	Database Management Systems
Environmental Science & Green Computing	Computer Networks
C Programming	Java Programming
Analog & Digital Electronics	System Software
English	Object Oriented Analysis & Design
Practical	Practical
C Programming Lab	Communication Skills
Web Design Lab	Database Management Laboratory
Analog & Digital Electronics Lab	Java Programming Laboratory
Personality and Character Development	
SEMESTER 2	SEMESTER 5
Theory	Theory
Linear Algebra	Enterprise Computing
Discrete Structures	Web Technology
Computer Architecture	Data Mining
Data Structures	Computer Graphics and Multimedia
Object Oriented Programming with C++	Elective – 1
Practical	Practical
Mathematical Computing Lab	Computing Graphics and Multimedia Lab
Data Structures Lab	Web Technology Lab
Object oriented programming Lab	Object oriented programming Lab
Personality and Character Development	
SEMESTER 3	SEMESTER 6
Theory	Theory
Probability and Statistics	Mobile Computing
Software Engineering	Software Testing
Microprocessor and Interfacing	Elective - II
Operating Systems	Elective - III
Advanced Data Structures	
Practical	Project Work
Microprocessors & Interfacing Lab	1.0,000
Advanced Data Structures Lab	

PROFESSIONAL ELECTIVES

- * Modeling & Simulation
- * Software Metrics
- * Data Compression
- * Real Time & Embedded Systems
- * Service Oriented Architecture
- * Agile Software Development
- * Pervasive Computing
- * Cloud Computing
- * Social Network Analysis
- * Computer Vision and Image Analysis

- * Advanced Database Management Systems
- * Parallel & Distributed Computing
- * Computer Graphics & Visualization
- * Mobile Computing
- * Principles of Programming Languages
- * System Security
- * Semantic Web
- * Human Computer Interaction
- * Advanced Computer Graphics
- * Big Data Analytics

OPEN ELECTIVES

- * Entrepreneurship
- * Computer Forensics
- * Wireless Networks

- * Randomized Algorithms
- * Data Visualization
- * Applied Graph Theory

* Cryptography

INFRASTRUCTURE

The College has a well-equipped state-of-the art computer centre with latest software and hardware. The Department has an Object Computing Lab, Computational Sciences Lab, Theoretical Computer Science Lab, Computer Systems and Design Lab, Computational Neuroscience Lab, Smart and Secure Environment Lab and Data Science Lab. The College has a VSNL earth station which is one of its kind in Coimbatore. The College also possesses three Web Servers, namely www.psgtech.edu, www.psgtech.e

LIBRARY

The College has a well-stocked, fully automated library. The library is one of the best equipped in terms of the number of books, back volumes and current journals subscribed. The library has an excellent collection of nearly 2 lakhs books and more than four hundred international and national journals and magazines. The library has a good collection of CD-ROMs, to which students have free access. In addition to this, each Department maintains its own well-equipped library catering to the needs of its students.

ELIGIBILITY and ADMISSION PROCEDURE

A pass in the Higher Secondary examination of the (10+2) curriculum prescribed by the appropriate authority of the Government of Tamil Nadu with Mathematics, Physics and Chemistry as the subjects of study or any other exam recognised as equivalent.

The applicants should attend an online examination in Mathematics which is scheduled in the Forenoon of 2nd June 2017. The online test will be based on Higher Secondary Mathematics portions of Matrices and Determinants, Functions and Graphs, Differential Calculus, Integral Calculus, Differential Equations, Analytical Geometry, Vector Algebra and Probability. Candidate

HOW TO APPLY

Application form can be downloaded from our college website: www.psgtech.edu . Application for admission should be made only in the prescribed form. Applications suppressing information or providing misleading information or incomplete in any respect will be summarily rejected. Completed applications along with a demand draft for Rs.500/- drawn in favour of "The Principal, PSG College of Technology" on any nationalized bank payable at Coimbatore should reach The Principal, PSG College of Technology, Peelamedu, Coimbatore-641 004, on or before 24.05.2017.
Application can also be made online by entering all the particulars including marks along with online payment through the net banking/credit card/debit card on or before 24.05.2017 .