



PSG COLLEGE OF TECHNOLOGY

COIMBATORE - 641 004

BSc Computer Systems & Design

Mission of the College

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

Vision of the Department

Stay ahead and be relevant

Mission of the Department

The fundamental objective of the department is to develop quality professionals by providing concept oriented subject knowledge through high quality teaching supplemented with practical training. Apart from specialized knowledge and skills, the programmes conducted by the department aim to develop all-round personality by inculcating values such as honesty, sincerity, team spirit and work culture.

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 1st June 2018. 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.

Candidates shortlisted in the online test will be displayed on the college Website / Notice board and the selected candidates will be admitted through counselling on 01.06.2018.

The College

PSG College of Technology, an institution par excellence today, was founded in 1951 by 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 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.

BSc Computer Systems & Design

BSc Computer Systems and Design (erstwhile Computer Technology) programme started in 1985, 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. They get trained in well-equipped laboratories with latest software tools.

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 is equipped with good internet facility to which the students have round the clock access.

PROGRAMME STRUCTURE

B.Sc. (COMPUTER SYSTEMS & DESIGN)	
<p style="text-align: center;">SEMESTER 1</p> <p>Theory Calculus & Its Applications Environmental Science & Green Computing C Programming Analog & Digital Electronics English</p> <p>Practical C Programming Lab Web Design Lab Analog & Digital Electronics Lab Personality and Character Development</p>	<p style="text-align: center;">SEMESTER 4</p> <p>Theory Computer Networks Java Programming Software Engineering System Software Optimization Techniques</p> <p>Practical Communication Skills Computer Networks Laboratory Java Programming Laboratory</p>
<p style="text-align: center;">SEMESTER 2</p> <p>Theory Linear Algebra Discrete Structures Computer Architecture Data Structures Object Oriented Programming with C++</p> <p>Practical Mathematical Computing Lab Data Structures Lab Object Oriented Programming with C++ Lab Personality and Character Development</p>	<p style="text-align: center;">SEMESTER 5</p> <p>Theory Mobile Computing Computer Graphics and Multimedia Machine Learning Professional Elective I Professional Elective II</p> <p>Practical Mobile Computing Lab Computer Graphics and Multimedia Lab Machine Learning Lab</p>
<p style="text-align: center;">SEMESTER 3</p> <p>Theory Probability and Statistics Database Management Systems Microprocessor and Microcontroller Operating Systems Design and Analysis of Algorithms</p> <p>Practical Database Management Systems Operating Systems Lab Design and Analysis of Algorithms Lab</p>	<p style="text-align: center;">SEMESTER 6</p> <p>Theory Distributed Enterprise Computing Software Testing Professional Elective - III Open Elective</p> <p>Project Work</p>

PROFESSIONAL ELECTIVES

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|--|------------------------------|------------------------------------|
| * Web Services | * Open Source Software | * Service Oriented Architecture |
| * Artificial Intelligence | * Data Mining | * Natural Language Processing |
| * Semantic Web | * Cloud Computing | * Deep Learning |
| * Big Data Analytics | * Graph Theory | * Software Patterns |
| * Advanced Database Management Systems | * Embedded System and Design | * Information Search and Retrieval |
| * Virtual Reality | | |

OPEN ELECTIVES

- | | | |
|--------------------|----------------------------------|----------------------|
| * Cryptography | * Numerical Analysis | * Cyber Security |
| * Entrepreneurship | * Human Machine Interface Design | * Internet of Things |

Library

The College has a well-stocked library with nearly 2.5 lakhs books, back volumes, more than 400 international & national journals and magazines. The library has a good collection of CD-ROMs, to which students have free access. Apart from catering to the needs of the faculty and students, the library allows access to industrial associates of PSG College of Technology. In addition to this, each department maintains its own well-equipped library catering to the needs of its students.

An in-house academic journal, National Journal of Technology, is published by the college on a quarterly basis comprising of quality articles by researchers all over the country.

Placement

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

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 rejected. Completed application 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 **25.05.2018**.

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 **25.05.2018**.