



PSG

In Nation building since 1926

**PSG COLLEGE OF TECHNOLOGY**  
Coimbatore, Tamil Nadu 641004

# Department of Applied Mathematics and Computational Sciences

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**Information Brochure**



## About the College

PSG College of Technology, a government aided, autonomous college was one of the foremost institutions founded by PSG and Sons' Charities trust(1926). The college was established in the year 1951 and it is located in the same campus as PSG industrial institute for effective industry- institute interaction.

This prestigious Indian engineering institute consistently showcases excellence in higher education and secures a prized spot within India's top 100 engineering colleges, a testament to its unwavering dedication to delivering quality education, promoting research, and fostering innovation, as assessed by the National Institutional Ranking Framework (NIRF).

Additionally, this institution perennially ranks among India's top 25 engineering colleges, receiving recognition from esteemed publications such as India Today, Outlook, The Week, and Times of India. These rankings underscore its status as a pinnacle of engineering education, known for its academic rigor, world-class faculty, cutting-edge research initiatives, and state-of-the-art infrastructure.

What truly sets this institute apart is its enduring legacy of nurturing aspiring engineers into accomplished professionals. It stands as a beacon of educational excellence, drawing students from across the nation seeking transformative learning experiences. Its consistent top-tier rankings not only show academic prowess but also highlight its significant contributions to the fields of engineering and technology.

In conclusion, this institution's unwavering presence among India's top engineering colleges signifies its resolute commitment to shaping the future of engineering education and research, garnering acclaim and respect from students, scholars, and the nation at large.

## Mission

PSG College of Technology aspires to be recognized as one of the leaders in engineering education, research and application of knowledge to benefit society.

## Vision

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.



## THE DEPARTMENT

Aligned to the vision of the department – **Stay Ahead and be Relevant**, the Department of Applied Mathematics and Computational Sciences has introduced various courses predicting the demands of this ever changing world. It is one of the largest departments in PSG College of Technology and its breadth and scale bring unique advantages in terms of bridging the demands of industry ready professionals through state of the art programmes run by the department. Graduate teaching provides a strong foundation in Mathematics and Computer Science exposing the students to the latest research and technology development.

The Department has its own library with latest books, national and international journals and magazines. The computer center is well equipped with the most recent hardware and software. To keep in touch with the ever - growing technology, the faculty members participate regularly in refresher course and symposia conducted by top notch Universities, Research Institutions and Professional Bodies like Association for 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 latent talents in its students. The students are provided with ample opportunities to improve their organizational skills and group dynamics.

## 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.



## THE PROGRAMMES

PSG College of Technology introduced the five-year integrated **M.Sc. Software System** (erstwhile M.Sc. Software Engineering) programme for the first time in the country in 1997 to meet the challenging needs of the Industry by ensuring a good understanding of the software design process and develop new applications using the state of the art technologies. The program is very well received by software Industries. The five year integrated **M.Sc. Theoretical Computer science** (2007) was yet another innovative programme offered by the department since 2007 has been very well appreciated by the Research and Development divisions of software industries.

This meticulously crafted curriculum is designed to cultivate a reservoir of intellectual capital, primed for innovation within the R&D spheres of software enterprises and primed to shine on the global stage in renowned universities.

Increasing demand in processing and handling the plethora of data, the Department of AM&CS started an innovative five year integrated **M.Sc. Data Science** programme (2015) at PSG College of Technology in the year 2015, the first of its kind in India. The curriculum of the programme is well designed to meet the current demands of the Industry and to create pioneering experts in the field of Data Science by providing expertise in various domains including scalable techniques for Big data analysis, Machine learning, Operations Research and Artificial Intelligence. This programme will equip the students to provide holistic experience encompassing technical and leadership skills which are vital for successfully creating value through analytics and AI in interdisciplinary domains. The graduates from this programme are in huge demand by the industry with an excellent placement record.

With increasing awareness and concern over the growing cyber threats facing organizations, governments and individuals alike, the Department of AMCS started the five year integrated **M.Sc. Cyber Security** programme, the first of its kind in India in the year 2020. The curriculum was thoughtfully designed with input from field practitioners and industry thought leaders with the goal of training cyber security professionals with lifelong learning skills and the ability to defeat adversaries from theoretical as well as tactical perspectives.

The two year **M.Sc. Applied Mathematics** programme was offered by the department since 1975 to acquaint the students with various principles of Mathematics and apply to all relative fields of science, technology and management. To meet the demands of the IT industry a three year undergraduate programme **B.Sc. Computer Systems and Design** is offered since 1985. This programme emphasizes development of programming skills, understanding system design tools and technologies for effective problem solving.

## INFRASTRUCTURE

The department offers cutting-edge computer lab facilities to support the academic and research needs of our students and faculty members. Our computer labs are equipped with the latest technology and software, providing a conducive environment for learning, experimentation, and innovation. The labs boast of an impressive fleet of 550 high-performance computers with good specifications, ensuring smooth multitasking and efficient computing. Each desktop is equipped with a powerful i7 processor, 16GB RAM, and high-resolution displays to meet the demands of various software applications and research projects. These computers are regularly updated to meet the ever-evolving demands of technology and software development and also ensure that every student has access to a computer during lab sessions and extended operating hours to accommodate late-night study sessions and research endeavors.

With a substantial number of computers, robust server infrastructure, a private cloud, high-speed internet, specialized software, and a commitment to technical support, the labs ensure that students have access to the resources they need to excel in their academic pursuits and prepare for successful careers in the IT field.



## INTERNSHIP

As an integral component of our curriculum, students engage in two immersive projects, each spanning six months. These projects provide invaluable hands-on training, immersing students in the practical aspects and prerequisites of the industry. Specifically, during the seventh semester (May to November) and the tenth semester (December to May), students exclusively focus on project work. These opportunities are typically pursued within renowned software industries and esteemed research institutions, offering students profound exposure to both industrial practices and research and development environments. This experience not only exposes students to cutting-edge technology but also cultivates a dynamic blend of managerial and technical proficiencies.



## INTERNSHIP

Companies which recruit our students are ABB, American Express, Anand Rathi, ASM Technology, Analytics Vidhya, Buddi AI, Buckman, Cambridge Mobile Telematics, Cloudwiry, Contimp Solutions, CypherD, Data Foundry, Dell, Ernst & Young (EY), Examly, Ford Motors, Goldman Sachs, ICU Medical, JP Morgan, Kilofarms, KLA Corporation, KLA R&D, MachDatum, Mahindra Holidays, MaxByte, MedVolt, Noodle AI, OptiSol Business Solutions, PRM Marketing Services, ProGrad, PSG Software Technologies, Qualitime, RootQuotient, Schlumberger, s5a, SoftwareAG, Striim, Techknowvate, Thorogood, TCS Research, TRDDC, TRI3D, TVS Digital, TVS Motors, ValueLabs, Visteon, Xpresslane, ZeroDown, Zelis, Zoho Corporation.

To address the needs and challenges of the global market and to quench the thirst of our students as creators of knowledge, the department encourages students to do research in top-notch research institutes like IIT Hyderabad, IIT Madras, IIT Patna, IIT Roorkee, Université Clermont Auvergne, and the University of California.



J.P.Morgan



ORACLE



Morgan Stanley



Arcesium





## EXTRA CURRICULAR ACTIVITIES

In addition to the academic and curricular activities, the students actively participate in co-curricular and extracurricular activities. The Computational Sciences Association, which is exclusively for the students of M.Sc. (Software Systems), M.Sc. (Theoretical Computer Science), M.Sc. (Data Science), and M.Sc. (Cyber Security) conducts various activities for the benefit of the students. Special lecture meetings, invited talks, and seminars are held regularly, for which experts in various fields from the industry and other institutions are invited to present their views regarding the latest trends and developments in the field of Information Technology.

The Association has, under the able guidance of the faculty advisors and the staff members of the Department, grown into one of the most active associations in the college today. In the event of celebration of two decades of Software Engineering and one decade of Theoretical Computer Science, a series of guest lectures by Alumni and Academicians from top-notch institutions/industries have been organized since Jan 2017. Marking AI week, a series of guest lectures by experienced professionals from various reputed institutions/organizations was organized in August 2023.

The Association also brings out a quarterly newsletter “COMAPP COMMUNICATIONS”, which publishes papers and articles from its members, alumni of the Department, and students of the department. The Editorial Board of COMAPP Communications consists of students guided by a faculty member acting as the Chief Editor. COMAPP COMMUNICATIONS is released by the students themselves and each issue highlights a recent trend in the IT field, thus enabling the students to keep abreast of the ever-changing technology.

Under the auspices of the Association, the students organize a National Level Technical Symposium, titled “LOGIN” every year. LOGIN, which was first hosted in 1990, has now grown into an International level Inter-collegiate Computer Festival and has always attracted active participation from the students of various Universities and Institutions.

THIRAN, an intra-collegiate technical symposium is also organized by the students and has active participation from the various departments within the college. MINDS is an annual intra-department event conducted by the Association with the sole aim to bring out the best out of the freshers.

The Association also encourages the students to participate in similar meetings conducted by other institutions. As a result of such constant support, the students have, over the years, been winning laurels outside the campus. Periodical industrial visits and active industry-institute Interactions are a boon to the students in enhancing their skills.



# CURRICULUM

## SOFTWARE SYSTEMS

### SEMESTER 1

- Calculus and its Applications
  - English for Professional Skills
  - Applied Physics
  - Analog and Digital Electronics
  - Problem Solving and C Programming
- Engineering Graphics and Geometric Modeling  
C programming Lab  
Applied Physics and Digital Electronics Lab

### SEMESTER 2

- Linear Algebra
  - Discrete Structures
  - Data Structures and Algorithms
  - Object Oriented Programming
  - Computer Organization
- Data Structures Lab  
Object Computing Lab  
Python Programming Lab

### SEMESTER 3

- Probability & Statistics
  - Database Management System
  - Transform Techniques
  - Design and Analysis of Algorithms
  - Microprocessor and Embedded Systems
- Design and Analysis of Algorithms Lab  
Embedded Systems Lab  
RDBMS Lab

### SEMESTER 4

- Accounting and Financial Management
  - Computer Networks and TCP/IP
  - Operations Research
  - Software Engineering Techniques
  - Operating Systems
- Computer Networks and TCP/IP Lab  
Mathematical Computing Lab (with R)  
Web Designing Lab

### SEMESTER 5

- Unix Architecture and Programming
  - Java Programming
  - Machine Learning
  - Theory of Computing
  - Professional Elective I
- Unix Shell and System Programming Lab  
Java Programming Lab  
Machine Learning Lab

### SEMESTER 6

- Mobile Computing
  - Artificial Intelligence
  - Software Patterns
  - Principles of Compiler Design
  - Professional Elective II
- Mobile Computing Lab  
Artificial Intelligence Lab  
Distributed Enterprise Computing Lab



## SEMESTER 7

Project Work I –  
Industry /Research Project

## SEMESTER 8

Information Retrieval and Web Search  
Data Mining  
Software Project Management  
Professional Elective III  
Open Elective I

Information Retrieval and Web Search Lab  
Data Mining Lab  
Capstone Project Lab

## SEMESTER 9

Computer Vision and Image Analysis  
Software Testing  
Deep Learning  
Professional Elective IV  
Open Elective II  
  
Deep Learning Lab  
Computer Vision Lab  
Functional Programming Lab

## SEMESTER 10

Project Work II –  
Industry /Research Project

## PROFESSIONAL ELECTIVES

Modelling and Simulation  
Big Data and Modern Databases  
Software Metrics  
Parallel and Distributed Computing  
Data Compression  
Computer Graphics and Visualization  
Principles of Programming Languages  
Agile Software Development  
Devops  
Cloud Computing  
Social Network Analytics  
Predictive Analytics  
Security in Computing  
Advanced Computer Graphics  
Big Data Analytics  
Natural Language Processing  
Internet of Things  
Advanced Systems Programming  
Statistical Learning  
Virtual & Augmented Reality  
Applied Graph Theory  
Wireless Networks  
Network Forensics  
Randomized Algorithms  
Reinforcement Learning  
Computer Forensics

## OPEN ELECTIVES

Principles of Management and Behavioral Science  
Entrepreneurship  
Environmental Science and Green Computing  
Quantum Mechanics and Fundamentals of Quantum Computation  
Computational Foundations for Robotics  
Mathematical Modelling  
Computational Finance



# THEORETICAL COMPUTER SCIENCE

## SEMESTER 1

- Alculus and Its Applications
  - Applied Physics
  - Analog and Digital Electronics
  - Problem Solving and C Programming
  - English for Professional Skills
- 
- C Programming Lab
  - Mathematics Laboratory
  - Applied Physics and Digital Electronics Lab

## SEMESTER 2

- Discrete Structures
  - Complex Variables and Transforms
  - Abstract Algebra
  - Data Structures and Algorithms
  - Object Oriented Programming
- 
- Computational Mathematics Lab with Python
  - Data Structures Lab
  - Object Oriented Programming Lab

## SEMESTER 3

- Linear Algebra
  - Graph Theory
  - Probability and Statistics
  - Advanced Data Structures
  - Computer Organization and
  - Assembly Language Programming
- 
- Statistical Computing and R Programming Lab
  - Advanced Data Structures Lab
  - Assembly Language Programming Lab

## SEMESTER 4

- Stochastic Processes
  - Database Design
  - Optimization Techniques
  - Operating Systems
  - Computer Networks
- 
- RDBMS Lab
  - Operating Systems Lab (Linux)
  - Computer Networks Lab

## SEMESTER 5

- Theory of Computing
  - Computational Number Theory and Cryptography
  - Machine Learning
  - Design and Analysis of Algorithms
  - Professional Elective - I
- 
- Scientific Computing Lab
  - Design and Analysis of Algorithms Lab
  - Java Programming Lab

## SEMESTER 6

- Software Engineering
  - Computer Graphics and Visualization
  - Artificial Intelligence
  - Principles of Compiler Design
  - Professional Elective – II
- 
- Computer Graphics and Visualization Lab
  - Artificial Intelligence Lab
  - Compiler Design Lab



## SEMESTER 7

Project work  
I – Industry /Research Project

## SEMESTER 8

Deep Learning  
Parallel and Distributed Computing  
Data Mining  
Professional Elective – III  
Open Elective – I

Parallel and Distributed Computing Lab  
Data Mining Lab  
Research Specialization Lab - I

## SEMESTER 9

Game Theory  
Mathematical Modelling  
Information Retrieval and Web Search  
Professional Elective – IV  
Open Elective – II

Modelling and Simulation Lab  
Information Retrieval and Web Search Lab  
Research Specialization Lab - II

## SEMESTER 10

Project Work II–  
Industry /Research Project

## PROFESSIONAL ELECTIVES

Reinforcement Learning  
Software Patterns  
Natural Language Processing  
Approximation Algorithms  
Network Algorithmics  
Social Network Analysis  
Advanced Computer Graphics  
Computer Vision and Image Analysis  
Data Compression  
Randomized Algorithms  
Security in Computing  
Advanced Operating Systems  
Exact Algorithms for Hard Problems  
Mobile Computing  
Big Data and Modern Database Systems  
Network Science  
Security Modelling and Analysis  
Internet of Things  
Epidemic Models  
Statistical Learning  
Large Scale Machine Learning  
Computational Geometry

## OPEN ELECTIVES

Computational Finance  
Principles of management and Behavioral sciences  
Entrepreneurship  
Computational Complexity Theory  
Wireless Networks  
Computational Foundations for Robotics  
Geometry for Graphics  
Digital Topology  
Environmental Science and Green Computing  
Functional Analysis



# DATA SCIENCE

## SEMESTER 1

Calculus and Its Applications  
Basics of Computational Biology  
Digital Electronics  
Problem Solving & C Programming  
English for Professional Skills

Engineering Graphics And Geometric Modeling  
C Programming Lab  
Digital Electronics Lab

## SEMESTER 2

Discrete Structures  
Abstract Algebra  
Data Structures and Algorithms  
Object Oriented Programming  
Theory of Probability

Object Computing Lab  
Data Structures Lab  
Python Programming Lab

## SEMESTER 3

Applied Statistics  
Linear Algebra  
Graph Theory  
Advanced Data Structures  
Computer Organization and Assembly Language  
Programming

Applied Statistics and R Programming Lab  
Advanced Data Structures Lab  
Java Programming Lab

## SEMESTER 4

Optimization Techniques  
Database Design  
Predictive Analytics  
Operating Systems  
Transforms and its Applications

Data Analytics & Visualisation Lab  
RDBMS Lab  
Scientific Computing Lab

## SEMESTER 5

Design and Analysis of Algorithms  
Stochastic Models  
Computer Networks  
Machine Learning  
Professional Elective-i

Design and Analysis of Algorithms Lab  
Machine Learning Lab  
Capstone Project

## SEMESTER 6

Parallel and Distributed Computing  
Deep Learning  
Big Data & Modern Database Systems  
Artificial Intelligence  
Professional Elective -II

Parallel and Distributed Computing Lab  
Big Data & Modern Database Systems Lab  
Deep Learning Lab



## SEMESTER 7

Project Work I –  
Industry /Research Project

## SEMESTER 8

Reinforcement Learning  
Natural Language Processing  
Data Mining  
Professional Elective-III  
Open Elective-I

Reinforcement Learning Lab  
Natural Language Processing Lab  
Data Mining Lab

## SEMESTER 9

Data Privacy and Security  
Network Science  
Information Retrieval & Web Search  
Professional  
Elective – IV (Self Study)  
Open Elective-II

Information Retrieval & Web Search Lab  
Data Privacy and Security Lab  
Network Science Lab

## SEMESTER 10

Project Work II –  
Industry /Research Project

## PROFESSIONAL ELECTIVES

Data Compression  
Mobile Computing  
Digital Image Processing  
Multimedia Analytics  
Computational Neuroscience  
Pervasive Computing  
Marketing Analytics  
Web Analytics  
Computer Graphics  
Algorithms For Bioinformatics  
Mathematical Modeling  
Software Engineering  
Software Patterns  
Applied Graph Algorithms  
Game Theory  
Social Network Data Analytics  
Health Analytics  
Cyber Security Analytics  
Internet of Things  
Cloud Computing  
Large Scale Machine Learning  
Wireless Networks  
Survival Analytics  
Randomized Algorithms

## OPEN ELECTIVES

Computational Finance  
Computational Geometry  
Principles of Management and Behavioral Sciences  
Entrepreneurship  
Information Theory and Error Control Coding  
Accounting and Financial Management  
Environmental Science and Green Computing  
Functional Analysis  
Advanced Optimization Techniques



# CYBER SECURITY

## SEMESTER 1

- Calculus and Its Applications
  - English for Professional Skills
  - Applied Physics
  - Digital System Design
  - Problem Solving and C Programming
- 
- Mathematical Foundations Lab
  - C Programming Lab
  - Applied Physics Lab

## SEMESTER 2

- Discrete Structures
  - Algebra and Number Theory
  - Data Structures
  - Object Oriented Programming
  - Computer Architecture
- 
- Data Structures Lab
  - Object Computing Lab
  - Python Programming Lab

## SEMESTER 3

- Probability and Statistics
  - Microcontrollers and Embedded Systems
  - Linear Algebra
  - Database Design
  - Design and Analysis of Algorithms
- 
- Embedded Systems Lab
  - Design and Analysis of Algorithms Lab
  - Database Design Lab

## SEMESTER 4

- Optimization Techniques
  - Computer Networks
  - Operating Systems
  - Cryptography
  - Hardware Security
- 
- Computer Networks Lab
  - Operating Systems Lab
  - Java Programming Lab

## SEMESTER 5

- Network Security
  - Web Engineering
  - Machine Learning
  - Compilers and Program Analysis
  - Professional Elective-I
- 
- Windows System Programming Lab
  - Web Engineering Lab
  - Ethical Hacking Lab

## SEMESTER 6

- Cloud Security
  - Ubiquitous Computing
  - Cyber Security Analytics
  - Secure Coding
  - Professional Elective -ii
- 
- Cloud Security Lab
  - Cyber Security Analytics and Visualization Lab
  - Distributed Computing Lab



## SEMESTER 7

Project Work I –  
Industry /Research Project

## SEMESTER 8

Software Security and Exploitation  
Mobile Security  
Data Privacy  
Professional Elective-III  
Open Elective-I

Software Security and Exploitation Lab  
Mobile Security Lab  
Malware Analysis Lab

## SEMESTER 9

Threat Hunting  
Cryptoeconomics  
Computer Forensics  
Professional Elective – IV  
Open Elective-II

Threat Hunting Lab  
Computer Forensics Lab  
Security Capstone Lab

## SEMESTER 10

Project Work II –  
Industry /Research Project

## PROFESSIONAL ELECTIVES

Information and Coding Theory  
Quantum Computing  
Post Quantum Cryptography  
Active Defense Using Deception  
Security Modeling and Analysis  
Computer Graphics and Visualization  
Artificial Intelligence  
Social Network Analysis  
Applied Graph Theory  
Multimedia Security  
Identity and Access Management  
Essentials of Cyber Physical System Security  
Data Compression  
Big Data and Modern Databases  
Network Forensics  
Biometric Security  
Game Theory  
Ethics and Cyber Law  
Digital Image Processing  
Natural Language Processing  
Information Retrieval and Filtering  
Reinforcement Learning  
Deep Learning  
Randomized Algorithms

## OPEN ELECTIVES

German  
Virtual and Augmented Reality  
Computational Foundation for Robotics  
Stochastic Models  
Principles of Management  
Environmental Science and Green Computing  
Computational Finance  
Entrepreneurship  
Statistical Learning  
Mathematical Modeling  
Adversarial Machine Learning  
Network Science  
Software Patterns



## Alumni Feedback

Msc. Software Engineering has been a rewarding experience for me. The course is very well-structured covering a wide genre of subjects from data structures to Object oriented programming, while also taking into account the changing landscape of the engineering industry and staying up to date. Aside from making me a technical expert, it taught me to think critically and develop my logical thinking so I can solve complex problems with ease .There is immense focus on 'hands-on' learning that made my transition into the corporate world seamless.

The members of the faculty are amazing and go out of their way to teach students in the best possible way and provide them with stretch assignments that develop their thinking. This course has seen arguably the best when it comes to campus recruitment and career growth for graduates. Overall, the course has helped me grow and succeed at a career in Software Engineering, and I am extremely grateful and proud to have been a part of it!

**Parul Jalota**  
**Bloomberg LP, USA**  
**MSc Software Engineering 2002-2007**



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PSG College of Technology is a premier engineering college with a rich history and tradition. It is known for its excellent teaching staff, state-of-the-art facilities, and placement record. The M.Sc course at PSG Tech is one of the best in the country. It offers a rigorous curriculum that prepares students for a career in research or industry. The course gives a lot of importance to 'learning by doing' and practically prepares you. The faculty members are highly qualified and experienced. The bonding with the alum community is powerful. Whenever we alums meet the faculties, they are always curious to bridge the gap between academia and industry. Naturally, all these factors help to maintain an excellent placement record.

I am proud to be an alumnus of PSG Tech and would highly recommend the M.Sc. course to anyone interested in a career in research or technology.

**Varunkumar Nagarajan**  
**Arcesium, Hyderabad**  
**MSc Software Engineering, 2003-2008**



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## Alumni Feedback

The course curriculum that mandates doing at least 2 projects every semester along with 2 internships inculcates “learning by doing” all through 5 yrs of the course that sets students far apart in the industry. Most of the professors come from strong research background and they helped us with strong foundation on computer science fundaments and problem solving approach. Every job switch I made were through Alumni Network and it will be throughout our career.



“ ”

**Kuberan Marimuthu**  
**Chief Executive Officer, CypherD, USA**  
**MSc Software Engineering 2005-2010**

The course curriculum has been uniquely created by highly skilled professors; covers all major technology trends preparing students to become relevant to any industry. My Five years in the programme has transformed me to be more confident and outspoken. The college gave ample opportunities for me to step up and develop my interpersonal skills along with my technical abilities. The two 6-month internship was a game changer for me as it helped bridge the gap between academics and industry expectations. Overall, the course curriculum and faculty members helped me carve my career path forward.



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**Harini Seshadri**  
**Morgan Stanley, Bengaluru**  
**MSc Software Engineering, 2000-2005**

M.Sc Software Engineering helped me learn a lot both academically and non academically. It has made me a well rounded individual with good technical skills. Its alumni network and glorious past has been an impetus in making me strive to become better everyday.



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**Preyes M**  
**Walmart, Bengaluru**  
**M.Sc. SE: 2011 – 2016**



## Alumni Feedback

MSc Software Engineering in PSG Tech is one of the leading courses in the country which keeps in pace with the skills needed in the industry and research areas. The ever evolving course syllabus and the skilled faculty make sure the students are well-equipped to enter the industry and excel at what they do. The internship experience would shape up the thought process of every student and make them think as Software engineers at a very early stage. The excellent mentor-ship of the faculty in college projects help the students take up real world projects and build their skill set.



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**Adithya K,  
Eindhoven, Netherlands  
M.Sc. SE : 2012 – 2017**

The highlight of MSc TCS is that it shapes the way you think. The syllabus is also framed in such a way that it is central to Math, Science and Technology which is crucial for students eager to pursue an elite career either in the Industry or Research.



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**Raghavendar Varadaraj  
Data Engineer @ Facebook, USA  
M.Sc. TCS : 2007 – 2012**

It was a dream come true moment to join this programme. Having internships as part of the curriculum is a great opportunity to develop skills that we can't get in a classroom. The professors are incredibly knowledgeable and kind. Graduating from here would be academically enriching and rewarding experience.



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**Varshini M  
Redhat, Bengaluru  
M.Sc TCS: 2011 – 2016**



## Alumni Feedback

M.Sc. Software in PSG Tech is a preciously crafted course that transforms a passionate student to a solid engineer. The course emphasis strongly on "learning by doing" which is a rare trait in conventional engineering courses. The practical classes and the two full time internship programs not only improve the technical knowledge of the student, but also make the individual a better leader. I am proud to be an alumnus of this prestigious course.



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**Arun Rahgavendar,**  
**Senior Software Engineer,**  
**Uber, Chennai**  
**M.Sc. SE : 2002 - 2007**

MSC SWE programme at PSG Tech offers a rich fulfilling college experience and the same time prepares you for life after college in the most complete way. The faculty are top notch and the two internships is a massive value add and held me in good stead when I graduated.



“ ”

**Napolean Villalan,**  
**Scrum Master, Vanguard, UK**  
**M.Sc. SE : 2005 - 2010a**

The M.Sc. Software Engineering course at PSG Tech went a long way in helping me strengthen my basics in all areas of Computer Science and Software Engineering. It was unique in the sense that it simultaneously laid emphasis on the core courses like Theoretical Computer Science and Mathematics as well as a plethora of electives. Such a format helps one become strong in the fundamentals as well as develop areas of interest in topics of one's interest. Hence I feel it is the best undergraduate course if one wishes to pursue higher (doctoral) studies in the field of Computer Science.



“ ”

**Dr Pravin Shankar,**  
**Data Science Director, Whatsapp**  
**MSc Software Engineering: 1998-2003**



For More Information

Website: [www.psgtech.edu](http://www.psgtech.edu)

Contact – [hod.amcs@psgtech.ac.in](mailto:hod.amcs@psgtech.ac.in)

Placement – [placement@psgtech.edu](mailto:placement@psgtech.edu)

## PSG INSTITUTIONS

1.	PSG Sarvajana Higher Secondary School	1924
2.	PSG Industrial Institute	1926
3.	PSG Polytechnic College	1939
4.	PSG Primary School, Vedapatti	1941
5.	PSG Primary School, Peelamedu	1943
6.	PSG College of Arts and Science	1947
7.	PSG College of Technology	1951
8.	PSG & Sons' Charities Metallurgy and Foundry Division	1974
9.	PSG Institute of Medical Sciences and Research	1985
10.	PSG Hospitals	1989
11.	PSG Centre for Sponsored Research and Consultancy	1989
12.	PSG Centre for Non-formal and Continuing Education	1989
13.	PSG Institute of Management	1994
14.	PSG College of Nursing	1994
15.	PSG College of Physiotherapy	1999
16.	PSG College of Pharmacy	2001
17.	PSG Public Schools	2002
18.	PSG High School, Vedapatti	2005
19.	PSG Institute of Advanced Studies	2006
20.	PSG Children's School	2009
21.	PSG Vishnugranthi	2013
22.	PSG Institute of Technology and Applied Research	2014
23.	PSG Centre for Academic Research and Excellence	2015
24.	PSG Software Technologies	2017
25.	PSG Institute of Architecture and Planning	2021