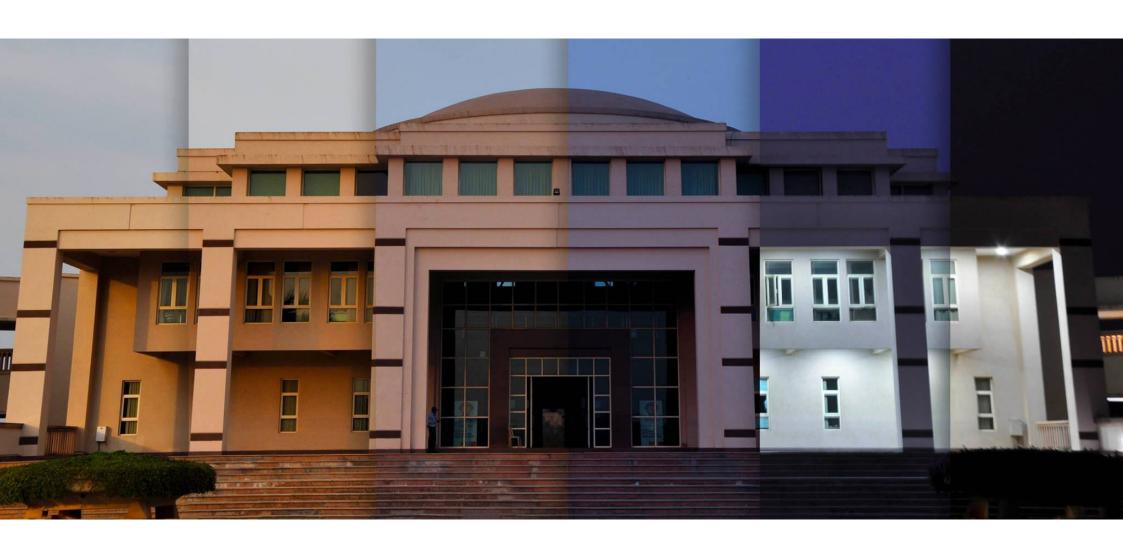# BITS Pilani Goa Campus

Student Profile 2016-17

Students at BITS Goa are available from the following programs

First Degree
(Normally 4 years after 10+2)

B.E.(Hons) Chemical
B.E.(Hons) Computer Science
B.E.(Hons) Electrical and Electronics
B.E.(Hons) Electronics and Instrumentation
B.E.(Hons) Mechanical

M.Sc.(Hons) Biology
M.Sc.(Hons) Chemistry
M.Sc.(Hons) Physics
M.Sc.(Hons) Mathematics
M.Sc.(Hons) Economics

Higher Degree
(Normally 2 years after graduation)

M.E. Chemical
M.E. Computer Science
M.E. Embedded Systems
M.E. Microelectronics
M.E. Biotechnology

Hallmarks of BITS Pilani University

BITS Pilani University is consistently ranked by various agencies as one of the top institutes in India, since 1964.

Every year, around 1.86 lakh aspirants appear for the BITSAT entrance test out of which only top 1.2% are selected.

Students go through a total of 7 ½ months of rigorous industry exposure through an evaluative component in our curriculum called Practice School.

Department-wise Hallmarks of BITS Goa 2016-17

Department of Mechanical Engineering

Department of Chemical Engineering

Department of Electrical, Electronics and Instrumentation Engineering

Department of Computer Science and Information Systems

Student Profile, BITS Goa 2016-17

Program	Number of Students
B.E.(Hons) Chemical	78
B.E.(Hons) Computer Science	122
B.E.(Hons) Electrical and Electronics	111
B.E.(Hons) Electronics and Instrumentation	113
B.E.(Hons) Mechanical	103
M.Sc.(Hons) Biology	29
M.Sc.(Hons) Chemistry	29
M.Sc.(Hons) Physics	30
M.Sc.(Hons) Mathematics	35
M.Sc.(Hons) Economics	29
M.E. Chemical	05
M.E. Computer Science	08
M.E. Embedded Systems	08
M.E. Microelectronics	08
M.E. Biotechnology	07

These are the total number of students registered for Placements 2016-17. At any point of time, half of the students are off-campus for their internships. The exact number of students available for each company will be communicated by the team members.

Department-wise Hallmarks of BITS Goa 2016-17

Department of Mechanical Engineering

Some companies where students do internships and industrial training are Skoda, Mercedes Benz, Tata Technologies, Bosch, Eaton and others.

Our past recruiters include Shell, FMC, L&T, Honda, Tata Motors and Fiat and other reputed companies who have a long standing association with our campus.

Students get very good practical exposure in our labs which include some of the latest machines like CNC Lathe, CNC Milling, CMM (Coordinate Measuring Machine), 3D Printers and a Wind tunnel.

Students are proficient in using CAE tools like Pro-E, Solidworks, Ansys learnt as part of coursework and via projects.

Students conduct projects in areas like Computational Fluid Dynamics, Fracture Mechanics, Composite Materials, Machine Design, Supply Chain Management and others.

The SAE (Society of Automotive Engineers) India chapter of BITS Goa is a regular participant at SAE competitions SUPRA, BAJA, and Effi CYCLE.

Technical clubs on campus like the Aerodynamics Club and Electronics and Robotics Club (ERC) regularly participate in inter-college technical competitions like TechFest, Robocon.

Department-wise Hallmarks of BITS Goa 2016-17

Department of Chemical Engineering

Some of the past recruiters and companies which offered internships include Shell, Halliburton, Reliance Industries, Alfa Laval, Derrick Petroleum, Dow Chemicals, Hindustan Uniliver, Hindalco and others.

The Department has been successful in securing grants to the tune of approximately Rs. 10 crore from several Government and private funding agencies like DST, MNRE, DBT, Ministry of Fertilizers, GAIL (India) Ltd., Thermax Limited, BPCL, Aditya Birla Group etc for industry-associated projects.

BITS Goa is the Regional Centre of IIChE(Indian Institute of Chemical Engineers)in addition to having a student chapter.

Students are involved in projects under the supervision of faculty in various areas like Separation Technologies, Nanomaterials, Environmental Engineering, Computational Chemical Engineering, Renewable Energy, Phase Equilibria and Applied Thermodynamics.

Software tools used by students and faculty include COMSOL, CHEMCAD, Hydraflash, HeatInt, ProDyn and MATLAB.

Department-wise Hallmarks of BITS Goa 2016-17

Department of Electrical, Electronics and Instrumentation Engineering

Our past recruiters and companies which offered internships include Texas Instruments, Qualcomm, Samsung, Nvidia, Intel and Freescale semiconductors.

Students take courses like Computer Architecture, Advanced VLSI, Digital Singal Processing, Wind Electrical systems and conduct projects in areas like - Electric Vehicles, Control Systems, MEMS, Robotics, Renewable Energy, CMOS Current mirrors and other topics.

The Cypress Semiconductors laboratory at Goa Campus is the first of its kind lab in India under the Cypress University Alliance Program of Cypress (USA).

Students are well versed with softwares such as Cadence Virtuoso, Proteus, LabView, PSpice, PSoC, MATLAB and languages such as Verilog, C, Assembly Language.

BITS Goa is the Regional Centre of IEEE Student Branch and regular hosts national and international conferences.

BITS Goa has a flourishing coding culture. Our institute had 23 selections in Google Summer of Code - GSoC, this year, ranking fourth globally

Department-wise Hallmarks of BITS Goa 2016-17

Department of Computer Science and Information Systems

Our past recruiters and companies which offered internships include Google, Amazon, eBay Inc., Paypal, Microsoft, Morgan Stanley, Dreamworks and other prestigious names.

BITS Goa has a flourishing coding culture. Our institute had 23 selections in Google Summer of Code - GSoC, this year, ranking fourth globally.

Coders from all branches contribute to open-source projects like those of Apache and Mozilla.

International and national conferences like - International Conference on Distributed Computing and Networking (ICDCN) and ACM India Annual Meet have been organized on our campus.

Students take up courses and projects in areas like - Data Mining, Wireless Network, Evolutionary Computing, Theory of Computations, Real Time Systems, Information Retrieval, Data Analysis and Applied Cryptography among others.

Student achievments for other sectors

Our students are highly interested in sectors like Analytics, Consulting, Banking and Finance, Operations and some highlights are:

Some of the past recruiters and companies who have offered internship include Ernst and Young, Goldman Sachs, Capital One, Thorogood Associates, KPMG, JP Morgan Investment Banking, Thomson Reuters and Deloitte.

Every year a large number of students of BITS Pilani Goa send their applications to the leading case study competition CIMA Global Business Challenge. BITS Goa is a regular national level finalist and has reached the international level twice.

Students from our campus are regular competitors in data science competitions like those organized by Kaggle.

The curriculum builds a strong foundation in quantitative aptitude and logical reasoning through extensive courses in algebra, arithmetic, probability, statistics, optimization, operational research, data structures and algorithms.

Students take up courses like Financial Management, Principles of Management, Principles of Economics, Micro and Macro Economics, Securities Analysis and Portfolio Management, Fundamentals of Financial Accounting and others.

BITS Goa has established India's third branch of 180 Degrees Consulting, the world's largest and most prestigious students run consultancy company.