



ABOUT BPDC

BITS Pilani, Dubai Campus (BPDC) is among the top and pioneering institutions in Dubai, and successfully serving the student community from UAE, India and other Countries since the year 2000. It is a campus of BITS Pilani that offers Bachelor's, Master's and Doctoral programmes in Engineering and Technology. Dedicated to the field of engineering education, it is one of the largest educational institutions in Dubai International Academic City (DIAC). The institute has achieved great prominence among the region's educational institutions by adapting itself to the diverse milieu, the use of technology and modern facilities.

MECHANICAL ENGINEERING DEPARTMENT

The Mechanical Engineering Department educates the engineers of tomorrow by integrating class room theory, laboratory experiments and practical hands-on projects. It emphasizes on the process of learning and critical thinking and promotes professional relationships with other universities and industries. Mechanical Engineers learn to solve engineering problems in the area of design and manufacturing, automation, robotics and thermal fluid engineering.

SALIENT FEATURES OF PROGRAMS

- Courses offered as evening and weekend program
- Tailor-made for working professionals in UAE
- International exposure for students who are looking for jobs in UAE
- Placement assistance by the placement division
- Fresh Graduates will have opportunity to interact with working professionals
- Fully air-conditioned individual hostel accommodation provided
- Visa will be provided for international students
- Collaboration with 300+ companies to offer internship through the practice school division
- Masters program can be extended to doctoral degree
- Modular and flexible curriculum at par with international standards

TESTIMONIALS- CURRENT STUDENTS



"The best thing about the institute is being surrounded by a supportive group of people. The faculty are highly qualified, and the teaching methodology & techniques are most effective. I'm immensely proud of being part of this prestigious university."

Kariappa Machangada, Mechanical Lead Design Coordinator, Siemens



"There aren't any akin programs to BITS Pilani's Masters program in Design Engineering. The accelerative thinking curriculum and the professors played a huge role in my choice to attend the program and pursue PhD from the same institute."

Subin Mattara, Sr. Manager- Procurements and Contracts, Engineering Office

TESTIMONIALS- ALUMNI



"The journey for the two years was great- the environment of professors, fellow students working together, the assignments, the group studies, the practical and lab- it was fun and at the same time knowledgeable."

Pramod Netiyil, Sales Manager- Middle East & India, Brüel & Kjær Vibro GmbH



"BITS Pilani has provided me with a chance to do research program by exploring different possibilities and choices which suits your interests. The program is designed in a such a way that it bridges the gap between academia and industry."

Dr Nandakumar Pillai, PhD.

Managing Director,

Middle East Rubber Manufacturing L.L.C



"With all latest infrastructure, facilities of labs, equipments and great support from the teachers who were flexible to the maximum extent for the students is the main highlight of the department. Great support and advice provided during my thesis had paved way for me to go for Doctoral studies and had a great impact on me during my PhD applications in international universities."

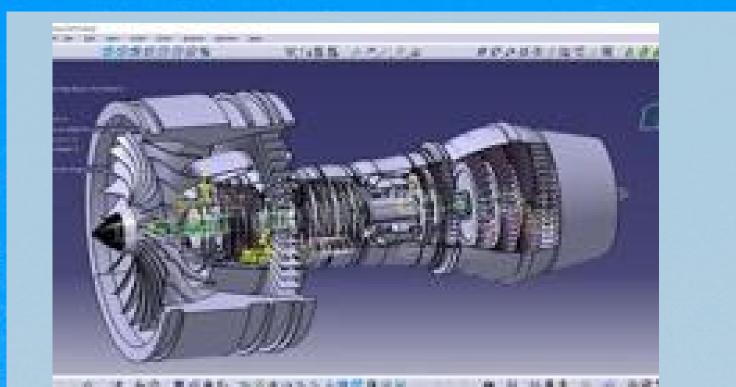
Sarath Menon, PhD Researcher University of Bolton, UK

HIGHER DEGREE PROGRAMS (ME & PhD)

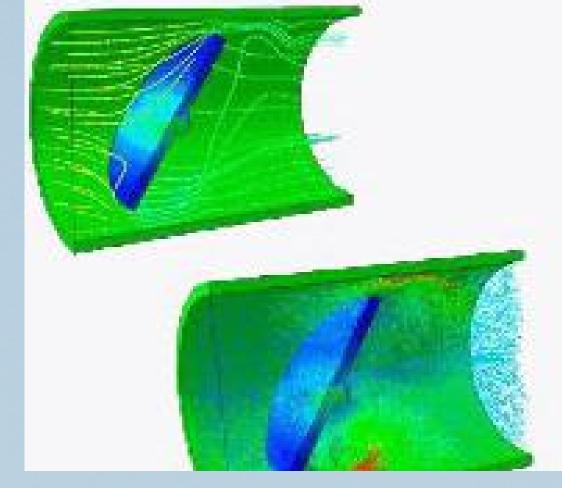
- ME DESIGN ENGINEERING [2 YEARS]
- Option 1: 12 courses (3 Sems) + Internship (1 Sem)
- Option 2: 12 courses (3 Sems) + Dissertation (1 Sem)
- PhD [3 TO 5 YEARS]
- Full Time: On Campus Students
- Part Time: Working Professionals in UAE
- Aspirants: Industry people with BITS Pilani liaison

COURSE STRUCTURE (ME Design Engineering)

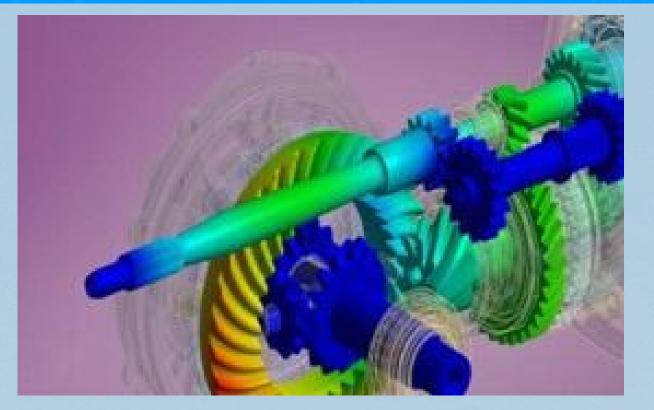
- Core courses: Dynamics & Vibrations, Computer Aided Analysis & Design, Finite Element Methods, Product Design, Mechanisms & Robotics, Materials Testing & Technology
- *Electives:* Mechatronics, Machine Tool Engineering, Computational Fluid Dynamics, Fracture Mechanics, Tribology, Non-Destructive Testing, Advanced Composites etc.
- *Research:* Research Practice and Dissertation or Practice School program



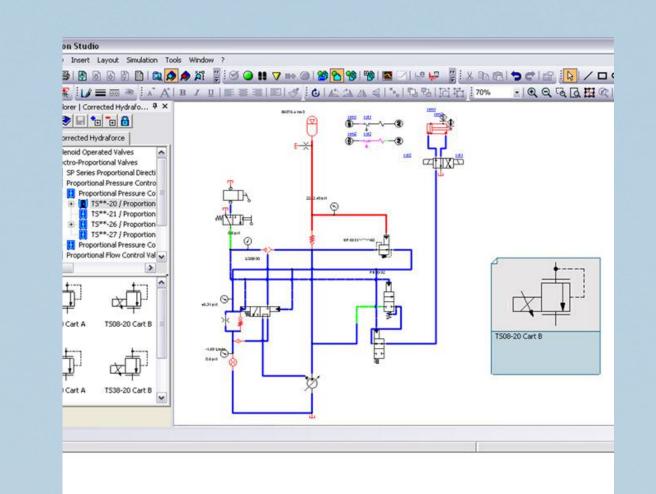
CATIA



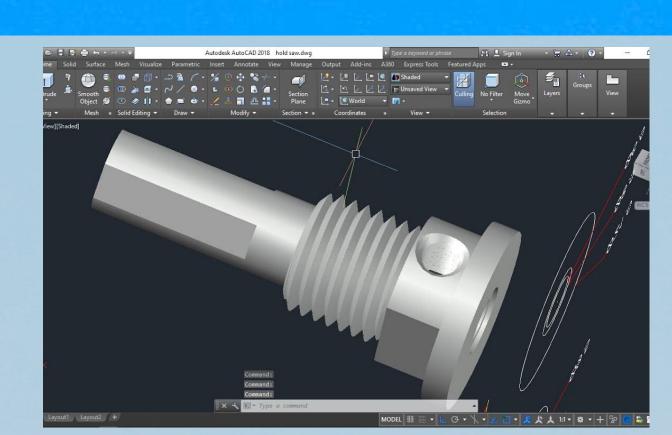
ABAQUS



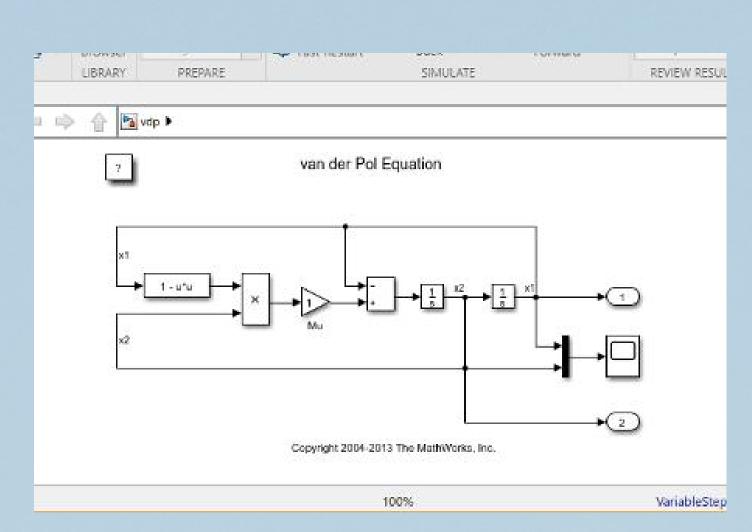
ANSYS Fluent



Automation Studio



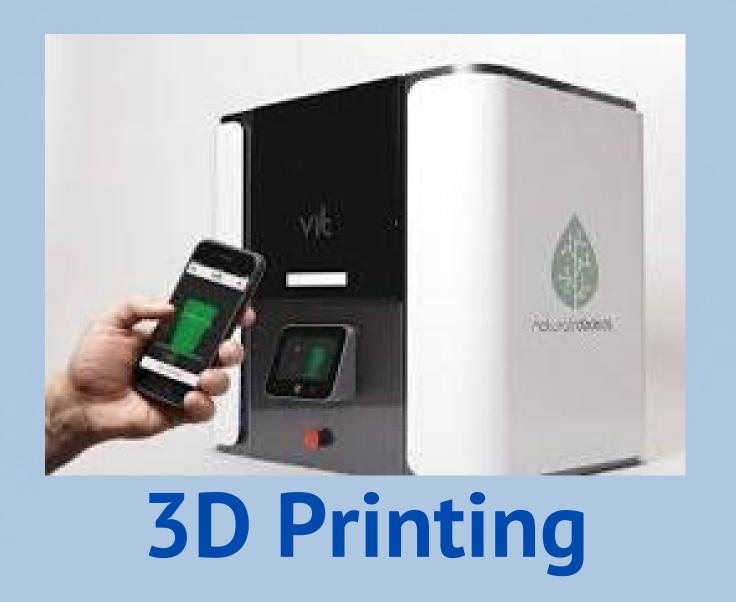
AUTOCAD



MATLAB Simulink

LAB FACILITIES

- CNC Lathe
- Vacuum Hot Press
- Stir Casting Furnace
- Additive Manufacturing



CNC Milling

- Acoustic Emission Testing Equipment
- Potentiostat
- Tribometer
- Corrosion Testing





- Universal Testing Machine
- Impact Testing Machine

- Micro Hardness Tester

- Composite Manufacturing

- Injection Moulding

- DSC & TGA

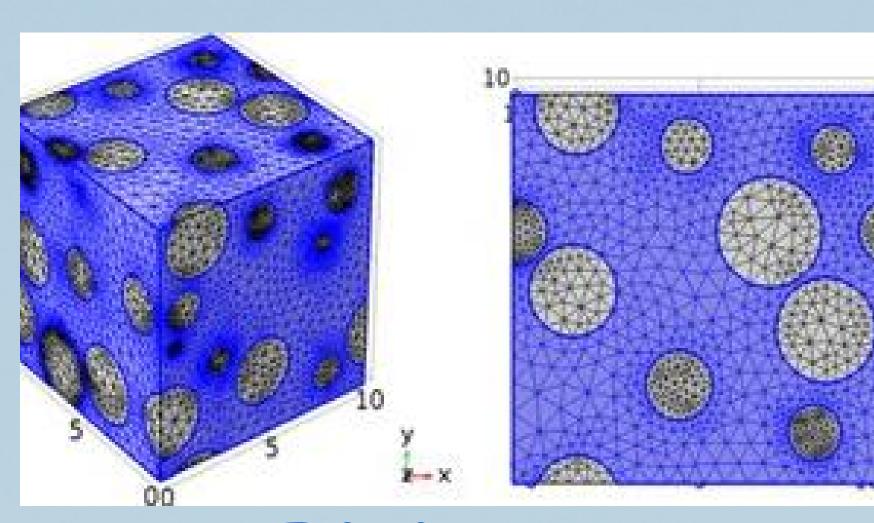


Robotic Arm

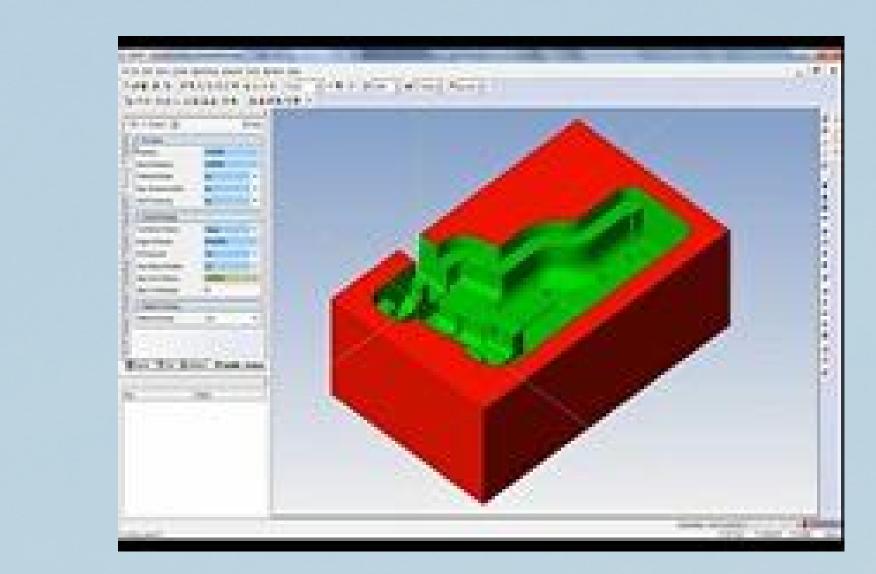
- Mobile Robot with vision control
- PLC Kit
- Ultrasonic Flaw Detector
- Optical Microscope
- Wear Testing



VCR Engines (Diesel & Petrol)



Digimat



ESPIII

FACULTY PROFILES

- Prof. R. Karthikeyan, PhD
 Research areas- Computer Aided Engineering,
 Modelling, Simulation & Control, Robotics and
 Automation
- Dr. Vincent S. Kumar, PhD

 Research areas- Composite Materials, Cytotoxicity

 studies for Bio-Applications, Behaviour of Materials)
- Dr. Naveen Shrivastava, PhD

 Research areas- Fuel Cells, Renewable Energy, Fluid

 Flow Analysis, Energy and Exergy Analysis
- Dr. Gulshan Kumar, PhD

 Research areas- Manufacturing, Microstructure, Metal
 Forming, Materials Characterization, FEM simulations

- Prof. C Perisamy, PhD
 Pesearch areas- Experis
 - **Research areas-** Experimental fluid Dynamics, Turbulent Structure, Experimental Combustion studies, Renewable Energy
- Dr. Priyank Upadhyaya, PhD

 Research areas- Micromechanics of Composite Materials,

 Damage Mechanics, Numerical Simulations
- Dr. Snehaunshu Chowdhury, PhD

 Research areas- High pressure combustion, Laser and Optical diagnostics,

 Soot measurements, Flame speed measurement, IC Engine

 combustion, Mass spectrometry, Material characterization techniques
- Prof. R. Udayakumar, PhD
 - **Research areas-** Renewable Energy, Automobile Engineering, Emission Control, Heat and Mass transfer
- Dr. Shashank Khurana, PhD

 Research areas- Bluff Body Aerodynamics, Bio-inspired Flow

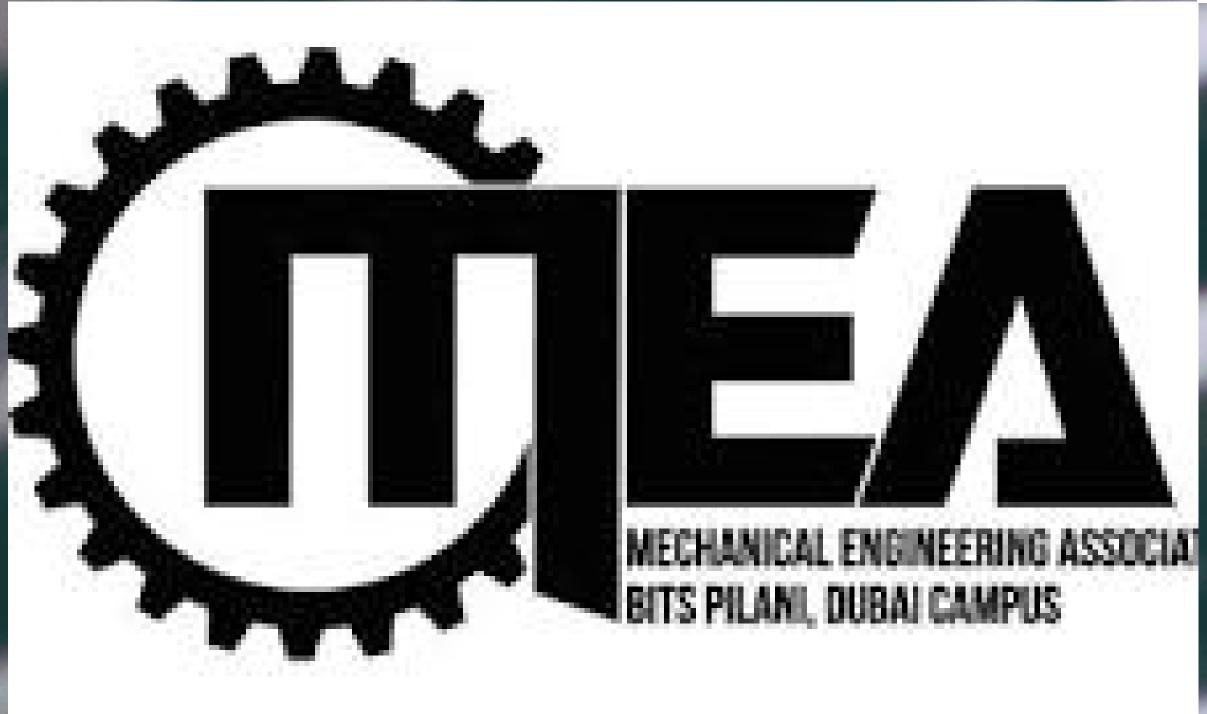
 Mechanics, Vapor Absorption Refrigeration











Rated 4-star by OF INDIA Leading Edge Smart

INSTITUTE OF **DECLARED BY MHRD, GOI**

KHDA, Govt. of Dubai Approved by UGC

& MHRD, GOI

Institute State of the art

Campus

Placement in top global companies

TOP QS BRICS UNIVERSITY RANKING 2019

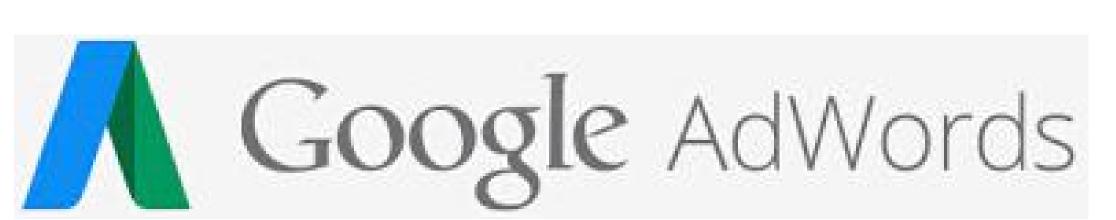
QS ASIA UNIVERSITY RANKING 2020

MAJOR RECRUITERS



















- Full time faculty qualified with doctoral degrees
- Collaboration with industries and research labs
- Active involvement in industrial consultancy
- State of the art material testing and characterization lab is available
- Specialized training programs for industries: Design software, PLC, Hydraulics and Pneumatics, Statistical analysis, MATLAB, CNC programming and Composite materials design

Admissions

2020-21

ELIGIBILITY

- Minimum requirement of 60% or 6 CGPA in B.E Mechanical Engineering or related disciplines for ME Design Engineering
- For PhD, 60% or 6 CGPA in post graduate study in Mechanical Engineering related discipline
- Interdisciplinary research is also possible.

HOW TO APPLY?



- Apply online through: www.bits-Pilani.ac.in/dubai/admissionsOverview
- Or, scan the QR code on the left

FEE STRUCTURE

- ME AED 15,500 per semester
- PhD AED 2,400 per semester (full-time) & AED 3,600 per semester (part-time)
- Merit based scholarship (up to 20%) is available for ME program

CONTACT US

Prof. R. Karthikeyan Head, Mechanical Engineering Department +971 501571477, rkarthikeyan@dubai.bits-pilani.ac.in BITS Pilani, Dubai Campus (Dubai International Academic City) PO. Box. 345055, Dubai, UAE