

Student Employability/ Practice School



Opportunities

Students become employable as Field or Testing Engineers dealing with power electronic components, converters, and specialized functions of power systems. They can be gainfully employed in manufacturing, construction and power distribution industries. Especially they will be able to contribute more, functionally in the areas of M.E.P (Mechanical, Electrical and Plumbing) and H.V.A.C (Heating Ventilation and Air Conditioning) in the concerned organizations in Gulf countries, leading to overall infrastructural developments of the whole GCC.

After graduating with a master's degree one can continue to work in the field of design of Power Converters, Solid State Drives, HVDC and FACTS systems. BITS Pilani has Collaborations with International Universities and Research Laboratories for doing dissertation work.

Contact us

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BITS Pilani
Dubai Campus

Department of Electrical & Electronics Engineering

Brochure for

***Masters in Engineering
(ME) in Electrical***

(Specialization in Power Electronics & Drives)

and

Doctor of Philosophy (PhD)



innovate

achieve

lead

About the Department

EEE Department was established in the year 2000. The department has produced many well trained engineers in the field of Electrical, Electronics, Communication and Instrumentation Engineering. The Department has expert faculty with PhD qualification, who empower the students with state-of-the-art teaching methodologies. The Department has very advanced Laboratories to cater to various courses in respective Fields of study. The placement record of students of the Department students is very good. Currently the Department offers two programs at undergraduate Level, one at post graduate level and PhD programme in various thrust areas. The Department conducts regular workshops and conferences to engage the faculty, staff and students in continuous learning.

BPDC Advantage

- The programme is conducted in the evening timings.
- Working Professionals in UAE can use the opportunity
- International exposure for students from India who are looking for jobs in UAE
- Fresh Graduates will have experience in studying with working professionals
- Internship opportunities arranged through practice school division
- Placement assistance by placement division
- Can be extended to doctoral programme
- Visa will be provided for international students
- 100% Phd and full time faculty members

Programme Structure

M.E Electrical is a Two-year programme spans for Four Semesters. Semester wise course structure is given below

- OPTION 1: 12 COURSES (3 SEMS) + INTERNSHIP (1 SEM)
 - OPTION 2: 12 COURSES (3 SEMS) + DISSERTATION (1 SEM)
 - FULL-TIME: ON-CAMPUS STUDENTS
 - PART-TIME: WORKING PROFESSIONALS IN U.A.E.
 - ASPIRANTS: INDUSTRY PEOPLE WITH BITS PILANI LIAISON
 - STUDENT VISA WILL BE ARRANGED BY THE INSTITUTION WITH ADDITIONAL CHARGES.
 - FEE STRUCTURE
M.E- 15,500 AED per semester
PhD. - 2,400 AED per semester (full-time)
& 3,600 AED per semester (part-time)
- Merit based scholarship (up to 20%) is available for ME programme

Eligibility

- Minimum requirement of 60% or 6 CGPA in BE Electrical/Electronics/Instrumentation
- For Phd, 60% or 6 CGPA in post graduate study in Electrical/Electronics/Instrumentation related discipline.
- Interdisciplinary research is also possible

Doctoral Research

- PhD-Full time, Part Time and Aspirant Modes.
 - Faculty members with international research experience to guide research scholars
 - Specialization areas: EEE & Instrumentation
1. Instrumentation & Control
 2. Communication Engg, networks
 3. RF, Microwave, Antenna design & Wireless systems

4. Power systems & Electrical Engineering, Renewable energy, smart grids.
5. Power electronics and drives
6. Embedded systems
7. Micro/Nano electronics
8. Electronic materials, Devices and technology
9. Digital Signal processing

List of Elective Courses

Students can opt for any electives from the list shown below.

- BITS F462 Renewable Energy
- CHE G526 Nuclear Engineering
- EEE F422 Modern Control Systems
- EEE C462 Advanced Power Systems
- EEE G544 Steady State and Dynamics of Electrical Motors
- EEE G553 Utility Applications of Power Electronics
- EEE G554 Soft Switching Converter Technologies
- EEE G555 Transformer and Motor Design
- EEE G557 Drives for Electric Traction
- EEE G558 DSP Based Implementation Drivers
- EEE G572 Digital Signal Processing
- EEE G593 Power Quality
- MEI G622 Introduction to Artificial Neural Networks

Course Laboratories

EEE Department has well equipped laboratories to cater to lab-based courses. Students are given facilities to do their lab related activities, projects, assignments and dissertation. Following are the course related Labs

- System Simulation Lab
- Solid State Drives Lab
- Power Converter Lab
- Electrical Machines Lab
- Instrumentation Lab

Department also equipped with software tools such as MiPower, MultiSim, IES-VE, PSpice and MATLAB.