



Higher Degree Programme in Engineering



M.E. Biotechnology

ABOUT BITS, PILANI-DUBAI

BITS, Pilani – Dubai (BPD) is a branch campus of the internationally reputed BITS, Pilani – India. It was set up in September 2000 in Dubai in association with the ETA ASCON Star Group, in response to the growing needs for quality engineering education among the residents of the Middle East.

BITS, Pilani-Dubai attracts a large number of brilliant students from UAE, KSA, Oman, Kuwait, Qatar, Bahrain, India, Tunisia, South Africa, Nigeria, Egypt, Thailand, Indonesia, China and Canada. Some highlights in the growth of BPD since its inception in 2000 are given below:

- **Student strength:** Currently 1700 students on rolls with about 30% of the total strength being girls as against a student strength of 61 when it commenced in the year 2000.
- **Programmes:** Currently it offers B.E.(Hons.) degree programmes in seven engineering disciplines up from just two in 2000. All programmes are of 4 years duration with 7½ months practice school (Internship) in industries.
- **Graduated student strength:** Six batches totaling 962 students (702 boys and 260 girls) graduated till date.
- **Admissions Abroad:** More than 150 graduated students secured admission in over 50 universities of international repute in USA, Canada, India & rest of the world.
- **Employment of BPD graduates:** BPD graduates are employed by more than 200 reputed companies, viz., Microsoft, Seattle, Oracle, Sony Ericsson,

Wipro, TCS, Petrofac, Etisalat, Honeywell, KPMG, and so on or have taken up successful entrepreneurial ventures.

- **Accreditation:** BITS, Pilani along with BITS, Pilani - Dubai and Goa campus has been awarded the coveted “A” Grade scoring the highest points (3.71 on a scale of 4.00) among all private accredited universities in India by the National Assessment and Accreditation Council (NAAC), an autonomous body set up by UGC, Govt. of India.

Thus, in the last 10 years, BPD not only made great progress achieving a phenomenal growth in both quantity and quality of its deliverables but also received innumerable accolades in co- and extra-curricular activities, viz., sports, cultural, community service, etc.

In view of the popularity and excellence achieved over the past decade, BPD now aims to enhance the continuing education opportunities for the working professionals of the UAE and GCC countries. On the occasion of the completion of a decade of its educational excellence in Engineering & Technology, BITS, Pilani-Dubai has commenced offering six new evening programmes of great relevance to working professionals: i.e., an integrated first degree [M.Sc.(Tech.)] and four higher degree programmes [two M.B.A. and two M.E.], on successful completion of which degrees are awarded from the prestigious BITS, Pilani-Rajasthan, India.

PROGRAMME INTRODUCTION

Biotechnology deals mainly with technological applications utilizing biological systems, dead organisms, or derivatives thereof, to make or modify products or processes for specific use. It is a technology based on

biology, especially used in agriculture, food science and medicine.

M.E. programme in Biotechnology, offers courses with a proper blend of disciplines like genetics, molecular biology, biochemistry, and embryology and cell biology to enable the student to hone up the required skill set to handle the current and forth-coming challenges in this technological area.

LEARNING APPROACH

The M.E. programme is highly structured and modular in approach with classroom lectures, assignments and individual projects, enabling professionals to complete the programme in the pace and duration suitable to them. Candidates will also be required to do a dissertation in the final semester.

CURRICULUM

The curriculum for the M.E. Biotechnology programme will be the same as the one offered at BITS, Pilani-India. It has been specially designed to ensure that the student acquires a well-rounded academic qualification having core competency skills in Biotechnology and an understanding of generic courses namely: Molecular Mechanism for Gene Expression, Environmental Biotechnology, Microbial & Fermentation Technology, Cell & Tissue Culture Technology, Plant Biotechnology, Experimental Techniques, etc.

Further, student's skills will be honed to be an efficient Biotechnology professional, through a couple of elective courses, an indicative list of which is given below:

- Bioinformatics
- Genetic Engineering
- Biomolecular Modeling
- Enzymology
- Biochemical Engineering
- Bioprocess Technology
- Recombinant DNA Technology
- Molecular Immunology
- Biostatistics and Biomodelling
- Human Genetics

In addition, the student needs to carry out a Dissertation during the final semester. Normally, a student needs to

study for 66 credits to become eligible for the award of the degree.

DURATION

Normally a student takes about 4 semesters (two years) to complete M.E. Biotechnology degree programme requirements in terms of number of courses and credits. This duration gets reduced if the student enrolls in summer term courses too.

CLASS TIMINGS

The programme is mostly aimed at working professionals and will normally be conducted during evening hours from Sunday to Thursday to suit their convenience.

ELIGIBILITY CRITERIA FOR ADMISSION

Candidates must have B.E. / B. Tech. / M.Sc. from recognized universities with adequate preparation in Microbiology and Biochemistry.

Short-listed candidates may be required to appear for written tests and interviews.

FEE STRUCTURE

Application Fee	:	AED 200
Admission Fee	:	AED 1,500
Caution Deposit	:	AED 2,000
Tuition Fee per semester*	:	AED 20,000 (Payable in 2 installments)

*Fee for the last semester will vary minimally based on the number of credits.

APPLICATION PROCEDURE

Candidates interested in applying for the programme can collect the application form through any of the following modes:

- (a) From the Admissions Office, BITS, Pilani-Dubai, Dubai International Academic City, or
- (b) By E-mail request to admission@bitsdubai.com, or
- (c) Download from the website www.bitsdubai.com

Please refer to the "Instructions to Applicants" attached with the application form for details on application submission and admission procedure.

CLASSES COMMENCE FROM 19TH SEPTEMBER 2010.
ADMISSIONS IN PROGRESS

FOR MORE DETAILS

Contact:

Admissions Office, BITS, Pilani-Dubai, Dubai International Academic City, P.O. Box 345055, Dubai, UAE.

Tel: +971-4-4200700, 4200811, Fax: +971-4-4200822, Email: admission@bitsdubai.com

Website: www.bitsdubai.com