



**BITS Pilani**  
Dubai Campus



# PROSPECTUS

2024-25

**HIGHER DEGREE Programs**  
**(M.E./M.B.A./Ph.D.)**

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# BITS Pilani

Pilani | Dubai | Goa | Hyderabad



**Dr. Kumar Mangalam Birla**  
Chancellor, BITS Pilani



**Prof. V. Ramgopal Rao**  
Group Vice Chancellor, BITS Pilani

## BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

Birla Institute of Technology and Science, Pilani (BITS, Pilani) is an All India Institution declared as deemed university, established in 1964, under section 3 of the UGC Act. The great visionary late Mr. G.D. Birla was its Founder Chairman. BITS Pilani is located in Pilani in the state of Rajasthan and offers degrees at all levels in Engineering, Sciences, Management, and Pharmacy. Dr. K.K. Birla, who took over as the Chairman in 1983, realized the need for providing top class higher education facilities to a greater number of promising students in science and technology, and under his patronage, BITS Pilani started expanding by establishing new campuses for Technology, Science and Management. BITS Pilani, Dubai Campus in the year 2000; BITS Pilani, K.K. Birla Goa Campus in the year 2004; BITS Pilani, Hyderabad Campus in the year 2008. Consequent to the demise of Dr. K.K. Birla in 2008, Dr. Kumar Mangalam Birla was elected as the Chancellor and Smt. Shobhana Bhartia was appointed as the Pro-Chancellor. Under the leadership of the young and dynamic Chancellor, BITS is taking steps to scale greater heights and has recently started BITS School of Management (BITSOM), BITS Law School and BITS Design School in Mumbai

### **BITS Pilani – Accreditation and Ranks**

**Institute of Eminence:** Granted the status of 'Institute of Eminence' by MOE, Govt. of India in 2018.

**International Ranking:** Ranked among the Top 250, QS Asia Ranking 2024 and among the Top 300, THE Asia University Rankings 2023.

**Other Rankings:** BITS Pilani is ranked No.1 among the private engineering institutions in India in several media rankings such as Education World, India Today and The Week and has been the highest ranked non-government Institute consistently in many of these surveys.





## BITS PILANI, DUBAI CAMPUS

BITS Pilani, Dubai Campus is the branch campus of the internationally reputed Birla Institute of Technology and Science (BITS), Pilani-India and is one of the largest institution in Dubai International Academic City. The campus is approved by Ministry of Education, Government of India and University Grants Commission (UGC), India and is permitted by Knowledge & the Human Development Authority (KHDA), Government of Dubai.

Set up in the year 2000, we offer quality engineering education to students seeking admission not only from UAE and other middle-east countries but also from India and other parts of the world. The vibrant campus has an excellent academically conducive infrastructure along with well-experienced, highly qualified and dedicated faculty who are committed to fulfilling the students' aspirations and shaping them as competent professionals of global standard.

The academic programs and opportunities transform the students. They acquire learning skills, creativity, teamwork and leadership. The rigorous syllabi not only instill in them, a passion for knowledge but also teach the application of knowledge to real situations. In the Practice School Programs, which is an internship of 5.5 months offered within the programs duration, students are exposed to the work environment and get hands on experience in solving real life problems. We have a collaboration with over 300 reputed companies across UAE to offer practice school (internship) to our students.

Alumni from this campus have done exceptionally well in all spheres of life. Eighteen batches comprising over 6000 students have graduated from Dubai Campus till date. They are occupying leading positions in diverse fields across the world. They have been recruited by prestigious companies around the world and several have completed or pursuing Masters and Ph.D. programs from leading universities. Many Alumni are also successful entrepreneurs.

The professional activities at the campus have no parallel and is among the very few institutions in the Middle East to have recognized student chapters of professional societies such as IEEE, ASHRAE, ASME, SAE, ACM, SWE to name a few.

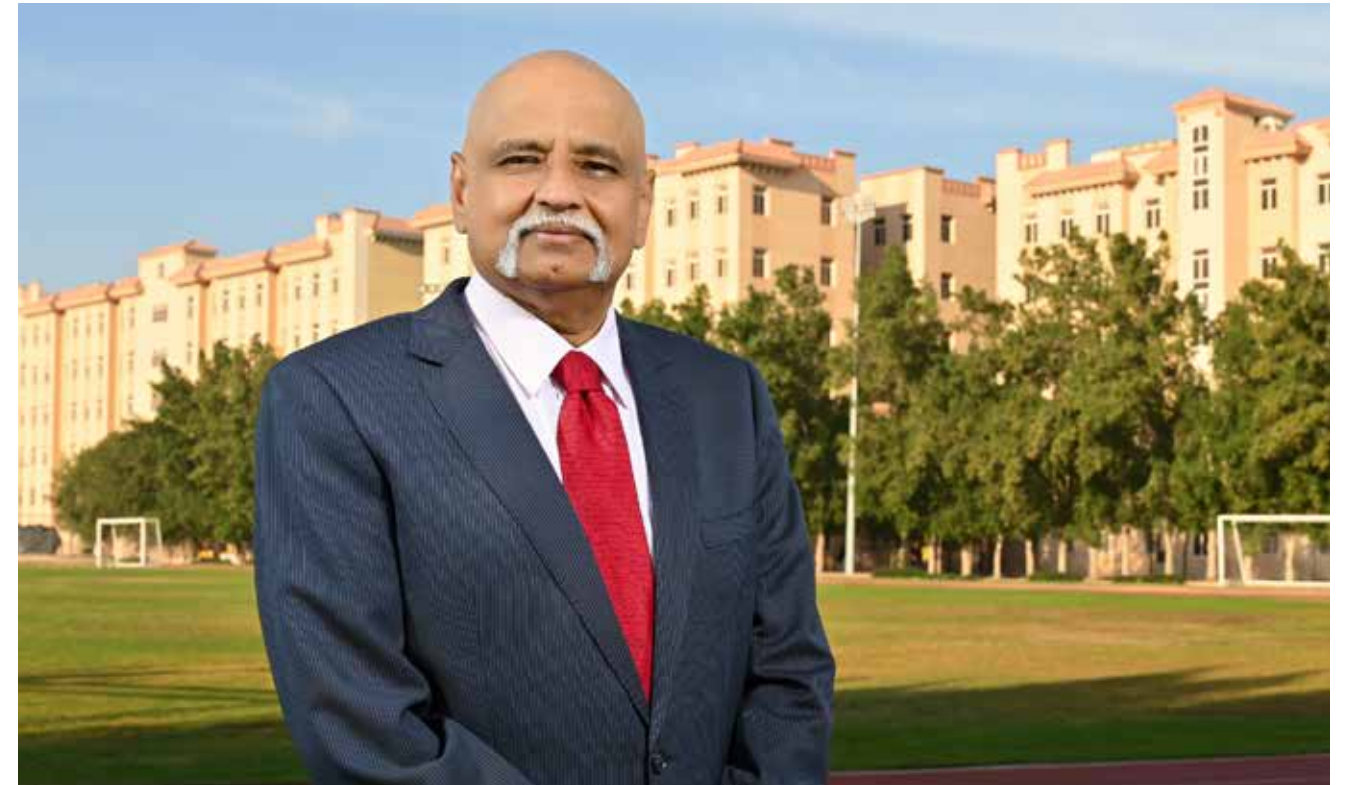
We also offer excellent opportunities to students to participate in and contribute to a variety of co-curricular and extra-curricular activities. We emphasise well-rounded personality development and the several laurels our students have won at the various national and international events are a testimony to this.

The Institute has made great progress in the last 25 years and is committed to the highest standards of academic excellence with continuous innovation in curriculum and pedagogy, pervasive industry engagement through practice school and enriched campus life.



Shaping future leaders  
with inter-disciplinary  
education

## MESSAGE FROM THE DIRECTOR



Welcome to the Dubai Campus of Birla Institute of Technology & Science, Pilani (BITS Pilani). Established in 2000 with the approval of the University Grants Commission and the Ministry of Human Resources, Government of India, BITS Pilani, Dubai Campus (BPDC) has the distinction of being the first offshore campus of any Indian institution of higher learning. Situated at Dubai International Academic City, Dubai, UAE, it has grown into an integrated International campus offering three tier University education (bachelors, masters and doctoral degrees) with residential facilities on campus for the students.

BPDC carries forward the charter of the brand 'BITS Pilani' and is dedicated to providing its students with a world-class education that combines academic rigour, intellectual stimulation, state-of-the-art technology and facilities and all-round personality development to deliver values, capabilities and skills for a global and knowledge-based economy.

The postgraduate programs at BPDC provide the specialised technical and managerial skills to facilitate career growth and achieve leadership positions. The PhD programs offered in the disciplines of humanities, sciences, management and engineering and supported by academic experts in their respective domains enable you to acquire the research skills and know-how to solve critical problems that are of regional and global importance. The fully equipped laboratory facilities that include a Creative Lab with

24 x 7 access are available for structured instruction as well as individualized projects. The strong student-led start-up culture is amply supported by relevant courses, a dedicated Business Incubation Centre, and mentorship from alumni and business experts.

The academic experience is ably complemented by a host of co-curricular, extra-curricular and professional activities to inculcate attributes of teamwork, integrity, creativity, leadership and societal responsibility leading to development of a well-rounded personality.

BITS Pilani alumni are spread globally and have distinguished themselves in their chosen careers. They serve as our valuable ambassadors and attest to our commitment to nurture individuals and groom talent in pursuit of excellence.

I invite you to join us and set yourself on the path of innovation, achievement and leadership.

**Dr. Srinivasan Madapusi**  
Director

BITS Pilani, Dubai Campus



## WHY CHOOSE BITS PILANI?

### World-Class Curriculum & Faculty

The Institute offers a world-class curriculum that is broad-based with unique options such as 5.5 months Practice School (Internship) or Thesis, high degree of flexibility in the form of electives and more to cater to the diverse interests of students and broaden their education beyond a single area of study. The Faculty is highly experienced with doctoral and postdoctoral degrees from reputed universities worldwide.

### Stellar Rating

Ranked as the top private university in India in Engineering and Technology in several media rankings, BITS Pilani also finds its place in the Global University Rankings of both THE (Times Higher Education) & QS (Quacquarelli Symonds). It is also ranked among the Top 300 in QS Employability Rankings 2022.

### International Exposure

Dubai, an international business & education hub is a strategic base to hundreds of global companies and universities and offers plenty of opportunities to students to interact with professors, industry experts and seasoned professionals across the spectrum. It is home to more than 200 nationalities & offers the best healthcare, shopping, sport & entertainment and leisure opportunities in the world.

### Placement Assistance

The Dubai Campus is a preferred recruitment ground for most corporates in the Middle East including MNCs and large conglomerates. Every year we organize Campus Placement Programs and Annual Career Fair for our graduates. We also organize employability skills training and career counseling for our students to gain better insights on the latest market trends and help them to be industry ready.

### State-of-the-Art Infrastructure

The vibrant campus offers over 30 high-tech engineering and science laboratories of international standards, well sourced library, modern and smart classrooms, Telepresence conference and classroom, incubation center, excellent hostel facilities separate for boys and girls, Outdoor and Indoor sports facilities and a Creative Lab with a 24x7 working opportunity for students with innovative ideas.

### Industry Internship

The Practice School (PS) programs ensures that students spend 5.5 months working in the industry even before graduation. The PS gives students the vital experience needed to adapt quickly to careers in the industry. The Institute has collaborated with over 300 Companies to offer Internships.

### All Round Development

We believe strongly in helping students develop to their full potential in every field of their interest. Soft skills development is made part of the class room experience through presentations and open-ended learning components. Extracurricular activities, student managed clubs and events give them further avenues to express themselves and develop skills beyond academics.

### Successful Alumni

Renowned scientists, successful entrepreneurs and managers & leaders of society - our alumni have made us proud time & again. Alumni are actively engaged with the institute and with the students, motivating them to perform and excel in whatever they do.



**BITS Pilani**  
Pilani | Dubai | Goa | Hyderabad

Ranked Globally  
Among  
**TOP 250**  
by QS Asia University  
Rankings - 2024

More than  
**6000 ALUMNI**  
in leading positions  
in globally reputed  
corporates

Ranked Globally  
Among  
**TOP 300**  
by QS Graduate  
Employability Rankings  
2023

**STRONG  
ACADEMIC  
EXCELLENCE  
& GLOBAL  
REPUTATION**

RATED **5 STAR**  
by Knowledge &  
Human Development  
Authority (KHDA) in  
partnership with QS

**NEARLY AED  
7 MILLION**  
Scholarships  
awarded every year

**50+ START-UPS  
and 2 Unicorns**  
facilitated in last 5 years  
encouraging innovation  
& entrepreneurship

Upto **30 WEEKS**  
Industry Internship  
within the programs  
duration at over  
300 corporate  
companies

### KEY FEATURES

- Approved by UGC and MOE, Government of India and KHDA, Govt. of Dubai.
- Degree awarded by BITS Pilani, India, with modular and flexible curriculum identical to the Indian campuses.
- Campus placement assistance offered with placement opportunities in globally reputed companies.
- Part-time employment opportunities also offered during the study.
- Student Visas and Full-Time Hostel Accommodation provided



# Programs OFFERED





## M.E. CIVIL with specialization in Infrastructure Engineering & Management

M.E. Civil with Specialization in Infrastructure Engineering & Management deals with the planning, design, construction, maintenance and management of various infrastructures across different sectors of Civil Engineering. The program develops advanced technical knowledge in infrastructure engineering with special emphasis on environmental and sustainability requirements as well as the economic constraints and challenges. Students can acquire the ability to apply advanced concepts of planning and engineering to identify, formulate and solve complex infrastructure planning problems, particularly with respect to sustainable urban infrastructure planning. The program is designed to be taught in collaboration with experienced PMP certified professionals, RTA professionals, infrastructure engineers and many others.

The program is highly structured and modular in approach. The student has to complete at least 12 courses attributed to coursework; and a Practice School (of at least 5½ months duration) or a Dissertation (of at least 1 semester duration).

### Career Pathways

Experienced professionals or fresh graduates who want to upskill their knowledge and skills in construction and management of built-in infrastructure such as roads, railways, buildings, pipelines, ports, tunnels, airports etc. are ideally suited for the program.

On successful completion of M.E. Civil one will be able to seek employment as a Project Manager, Risk Manager, Strategic consultant, Project Control, Transportation and Highway Engineer, Planning Consultant, Municipal Design Engineer, Infrastructure Planning Engineer, Environmental Impact Assessor, Water Treatment Engineer, Facility Manager, Environmental Engineer etc.

### Core Courses

- Construction Management
- Infrastructure Planning and Management
- Transportation Systems Planning and Management
- Water Resources Planning and Management
- Fundamentals of Systems
- Research Practice

### Elective Courses (Any Six)

- Project Planning & Management
- Financing Infrastructure Projects
- Construction Project Control Systems
- Transportation Economics and Finance
- Pavement Design, Maintenance and Management
- Urban Mass Transit Planning, Operations and Management
- Environmental Impact Assessment
- Design of Construction Operation
- Topics in Environmental Engineering
- Advanced Computational Techniques
- Advanced Concrete Technology
- Principles of Geographical Information System
- Advanced Composite Materials for Structures
- Rural Infrastructure Planning
- Selection of Construction Equipment and Modelling
- Pavement Design & Analysis
- Waste Management Systems
- Transportation Economics and Finance
- Systems Approach to Water Resources Modelling

- Environmental Conservation
- Remote Sensing and Image Processing
- Airport Planning & Design
- Stochastic Methods in Civil Engineering
- Structural Health Assessment and Rehabilitation
- Computer Aided Analysis and Design in Civil Engineering
- Prestressed Concrete
- Bridge Engineering
- Design of Multi-storey Structures
- Multicriteria Analysis in Engineering

### Software Tools

Department is also equipped with software tools such as

- Primavera P6
- MATLAB
- ABAQUS
- ArcGIS
- Bentley STAAD.Pro
- AutoCAD
- BIM 360

## M.E. ELECTRICAL with specialization in Power Electronics and Drives

With a M.E. program in Electrical with specialization in Power Electronics & Drives, you will be well - versed in the operation, function & interaction between various components and sub-systems used in power electronic converters, electrical machines & adjustable speed drives. You will also build up sound knowledge in the areas of interaction of power devices with power systems as well as the control aspects of power electronic converters. The programs will provide an in-depth knowledge in the domain of renewable energy, system-level modeling and would help to pursue a career as an engineer in the field of automation smart grids and to contribute more functionally in the areas of M.E.P and HVAC industries

### Career Pathways

On successful completion of this higher degree programs, you will be able to work in industries such as Aerospace, Automotive (Electric Vehicles), Power Sector, Manufacturing, Automation, Renewable Energy Sector, Power Generation and Distribution Companies in roles such as Design and Maintenance Engineer, QA/QC Engineer, Field/Test Engineer, Hardware Design Engineer, Systems Engineer.

### Core Courses

- Power Electronics Converter
- Distribution Apparatus and Configuration
- Power Devices Microelectronics & Selection
- Research Practice
- Control and Instrumentation Systems
- Solid State Drives
- System Simulation
- Dissertation or Practice School

### Elective Courses (Any Six)

- Nuclear Engineering
- Modern Control Systems
- Advanced Power Systems
- Steady State & Dynamics of Electrical Motors
- Utility Applications of Power Electronics
- Soft Switching Converter Technologies
- Transformer and Motor Design
- Drives for electric Traction
- DSP Based Control of Electric Drives
- Power Quality
- Introduction to Artificial Neural Networks

### Laboratories

The 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
- Artificial Neural Network Lab

### Software Tools

Department is also equipped with software tools such as

- MiPower
- MultiSim
- MATLAB
- LabVIEW

As a working professional, continuing my studies after 15 years was not an easy task. With the help and support of professors I was able to brush up my knowledge from the basics and got exposed to the latest advancements in the subject areas. There is a saying, "You are never too old to set another goal or dream a new dream". This wouldn't have been true for me without the support and encouragement of faculty members at BITS Pilani Dubai campus.



**Gokulnath Gangadharan**  
Batch: 2021-2023  
ME Electrical Eng.  
Projects Specialist  
ADNOC, Abu Dhabi, UAE.

I consider myself fortunate to embark on a full-time master's in electrical engineering at BITS Pilani Dubai Campus, concurrently advancing in my professional career with Dubai Petroleum. The program is tailored with evening classes, catering to the needs of working professionals. I highly recommend BITS Pilani, Dubai Campus, to all fellow engineering professionals working in the UAE. It is an excellent opportunity for those interested in pursuing advanced education in the field of engineering.



**Raghvendra Subhashchandra Tiwari**  
Batch: 2021-2023 ME Electrical Eng.  
Senior Electrical Support Engineer  
-Operations. Dubai Petroleum  
Establishment.

When I looked to pursue my Master Education, I wanted a course syllabus that is relevant to Industry and to present times. And that's where the BITS Dubai (BPDC) syllabus attracted me. High intensity teaching, giving insights into present day technologies and pushing us to do research activities beyond our comfort zone are some of the key points of the college that I would like to highlight. I am very happy to have chosen BPDC and grateful to have understanding professors and enthusiastic batch mates which have made my learning journey so memorable.



**Shibu George**  
Batch: 2021-2023  
ME Electrical Eng.  
Technical Director  
CG Drives & Automation  
(Emotron FZCO), Dubai



## M.E. SOFTWARE SYSTEMS

M.E. in Software Systems is a four-semester Full-Time evening program designed to equip students and technology professionals with knowledge and skills to remain competitive in an agile workplace. There is a growing demand for software professionals in various industrial sectors such as Manufacturing, Services and Trading across the world. This program encompasses the knowledge areas of software development, system architecture, infrastructure, and modeling for computer-based information systems. It involves a focused study of major components of software and their interactions in various categories of software systems such as AI, ML, Data Mining, Modern Databases, Cloud Computing and Network Security. Some of the applications include big data analytics, computerized reservation systems, personalized learning, content management systems, healthcare, product recommendation systems, and software security. This program prepares students and technology professionals for career advancement and research in software systems. The curriculum will enable the students to solve industrial problems through innovative ideas.

### Career Pathways

On successful completion of the M.E. Software Systems programs, you can have a rewarding career in Technology related domains/sectors such as E-Commerce, Software Security and Safety, Business Operations Management, Software Development, Software Quality Assurance, Planning and Performance, MIS, Data Management, Finance, Supply Chain and Logistics in roles such as Software Engineer, Data Analyst, Data Scientist, Business Analyst, Product Analyst, IT Security Consultant, Web & Application Developer, IT Head and Consultant.

“Software systems is an excellent program managed by highly competent professors and faculty members. I received tremendous support from both teachers and fellow students and the quality of course work and assignments helped me raise the bar on my technical skills. I am truly grateful for the knowledge and experience imparted by this course.”



**Kavita Maji**  
Batch: 2018-2020  
Senior Software Developer  
Emirates NBD

“BITS has given me an opportunity to expand my knowledge and gain expertise in the area of my interest. Truly grateful to all professors who have helped out of the way in every circumstance. Assignments have been challenging and have helped to develop problem-solving, critical thinking, and technical skills. An amazing journey, Indeed!”



**Dhanashri Gujar**  
Batch: 2019-2021  
Associate  
PwC

### Core Courses

- Data Mining
- Object Oriented Analysis and Design
- Software Engineering & Management
- Data Warehousing
- Software Architectures
- Research Practice

### Elective Courses (Any Six)

- Advanced Algorithms and Complexity
- Advanced Computer Architecture
- Advanced Computer Networks
- Blockchain Technology
- Cloud Computing
- Deep Learning
- Distributed Data Systems
- Fault Tolerant System Design
- Generative Artificial Intelligence
- Graph Mining
- Information Retrieval
- Internet of Things - Design and Development
- Machine Learning
- Natural Language Processing
- Network Programming
- Network Security
- Network Security Project
- Parallel Computing
- Pervasive Computing
- Real-Time Systems
- Reconfigurable Computing
- Social Media Analytics
- Software for Embedded Systems
- Software Testing Methodologies

### Laboratories

The department of Computer Science has six laboratories with latest equipped systems. Intelligent Computing Laboratory (ICL) is a research lab established in 2021 to perform research in the area of AI, IoT, Cyber Security, Computer Vision, Data Science and related areas of Machine learning / Deep learning. The lab is equipped with modern intelligent computing Hardware and Software.

### Lab Facilities

- Advanced Network Infrastructure with CISCO Devices.
- Network Simulation Tools: NS2, NETSIM, CISCO Packet Tracer, Wireshark.
- Software Lifecycle Modelling Tool: Enterprise Architect.
- Altova enterprise XML, QtSpim, MASM.
- Mathematical Simulation Tool: MATLAB.
- PYTHON and Open-Source Software under Linux and Windows.
- MYSQL SERVER, PROLOG, LISP.
- Machine learning & Deep Learning: Dell-Precision 7920 Tower Workstations, 480GB SAS, 2.4TB Hard Drive, NVIDIA Tesla V100 32GB GPU, NVIDIA Jetson GX Xavier and Jetson Nano 2GB Developer Kit.
- IoT: Raspberry Pi 3-model B, single board computer, Google Coral Devboard, FiPy Board, Zigbee module and Sensors kits.
- Multimedia tools and peripherals with VR and AR devices and software.



## M.E. DESIGN ENGINEERING

The curriculum for the M.E. Design Engineering programs has been specially designed to ensure transformation of a Mechanical Engineering graduate into a full-fledged Design Engineer. The students will gain networked knowledge in the core & intersection areas of design, development, simulation & manufacturing. In addition, the student will carry out design projects as well as dissertation which emphasizes on developing a well rounded education through an exposure to academic knowledge & professional traits skills.

### Career Pathways

On successful completion of this higher degree programs, you can be employed as a HVAC Professional, Energy Consultant, Design Engineer, Quality Control Analyst, Automobile Engineer, Project Managers, Industrial Engineer and Petroleum Engineer in the domains of Manufacturing and Automation, Mechanical Design, Renewable Energy, Thermal Sciences, HVAC Industry, Aircraft Industry and Aero-Fluid Dynamics. In addition, the graduate students can also be employed in Research positions in several reputed Laboratories. The potential employers are Schindler, Petrofac, Johnson Controls, Lamprell LLC, DEWA, PwC, Immensa Labs, KHK Scaffolding LLC, Siemens and Emerson to name a few.

### Core Courses

- Materials Testing & Technology
- Mechanisms & Robotics
- Finite Element Methods
- Computer Aided Analysis & Design
- Product Design
- Dynamics & Vibrations
- Research Practice
- Dissertation

### Elective Courses (Any Five)

- Advanced Composites
- Advanced Engineering Mathematics
- Computational Fluid Dynamics
- Concurrent Engineering
- Thermal Equipment Design
- Heating and Cooling of Building
- Experimental Stress Analysis Techniques
- Fracture Mechanics
- Introduction to MEMS
- Machine Tool Engineering
- Mechanical System Design
- Mechatronics
- Nondestructive Testing Techniques
- Theory of Elasticity and Plasticity
- Tribology
- Microfluidics and Applications

### Lab Facilities

- CNC Lathe/Milling
- Vacuum Hot Press
- Stir Casting Furnace
- 3D Printer (Formlabs 3L)
- Micro Hardness Tester
- DSC & TGA
- Injection Moulding
- Composite Manufacturing (vacuum bag molding, hand layup)
- Acoustic Emission Testing Equipment
- Potentiostat
- Tribometer
- Dynamic UTM 100kN
- D-space card for MATLAB real-time interface
- Impact Testing Machine
- Robotic Arm
- Mobile Robot with vision control
- PLC Kits
- Ultrasonic Flaw Detector
- Optical Microscope
- Wear Testing

### Software Tools

Students are also exposed to the design engineering software tools such as

- AUTOCAD
- CATIA
- ANSYS
- MSC ADAMS
- AUTOMATION STUDIO
- DIGIMAT
- ESPIRIT and DFX.

M.E. Design Engineering course is well designed to teach the basics as well as the recent technological developments in the field of Design. It gives importance on the applicability part and creates a greater interest to pursue research and development works. Upgradation of the skills is the core throughout the course. The flexible class timings make it a great place to study, especially for the working professionals. The guidance by Professors in advancing the career path is incredible

“

BPDC gave me several opportunities to improve and develop my skills which helped me in my career as a Design Engineer. Professors here are experts in their respective fields and are very supportive. It was a wonderful experience at BITS Dubai.



**Jaision Thomas Joy**  
Batch: 2019-2021  
CEO  
Rapid 3D Hub



**Deepu S. Nair**  
Batch: 2018-2020  
Engineering Supervisor-  
Mechanical Design  
National Oilwell Varco



## M.B.A

The MBA program gives students exposure to different domains of management such as, marketing, finance, human resource management, information systems and analytics, operations and supply chain management. The program is designed not only for engineering graduates, but also for those who have a bachelors in business administration or an undergraduate degree in commerce or related areas. Since the course sessions are scheduled on weekday-evenings and during weekends, this program is a perfect choice for working executives who want to pursue higher studies without taking a break from their professional career. Fresh graduates and the applicants who have little to no work experience before joining our MBA program can choose the option of doing a semesters practice-school (internship) to gain the valuable industry experience. The MBA curriculum consists of 20 fundamental core courses and 4 electives from a wide range

of specializations. Most of the courses are taught by in-house faculty members, who come from reputed institutes in India (such as IIMs, IITs) and abroad. Senior industry practitioners and visiting faculty drawn from other reputed institutes also teach some of the specialized courses. The classroom sessions use a mix of lectures, real-life case-studies, and group exercises to make the students ready for a career in business and management.

### Career Pathways

Depending on your career aspirations, skill-sets and interests, our MBA programs can prepare you for many different job roles such as: Marketing Manager, Sales Manager, Product Manager, Business Development Executive, Customer Relationship Manager, Project Manager, Management Consultant, Operations Manager, Finance Analyst, Investment Banker, Human Resource Manager, Business Analyst, etc.

“The welcoming and highly competent faculty coupled with engaging learning environment is the best part of my MBA at BITS Pilani, Dubai Campus. The programs ensures that conceptual clarity is provided to all the functional areas of business. It has been an eye-opening and fun experience. I feel privileged to be a BITSian.”



**Muhammad Marakkootathil**  
Batch: 2020-2022  
Regional Practice Lead  
Gulf Business Machine (GBM)

“I found BITS Pilani Dubai campus as a perfect place to do MBA. The course curriculum and delivery are perfectly designed to enhance managerial skills, which are desired for working professionals. The faculty ensures that we understand the nuances of various concepts using case-based approach. The continuous assessments such as team presentations, quizzes and group discussions add great value. In a nutshell, BITS Dubai provides you a fun filled learning experience.”



**Ashok Prasanna**  
Batch: 2021-2023  
Head of Security - IT MS  
Ericsson UAE

### Core Courses

- Accounting for Managers
- Business Statistics
- Leading Modern Organizations
- Managerial Economics
- Organizational Theory & Behaviour
- Strategic Marketing
- Introduction to Systems & Sustainability
- Critical and Design Thinking
- Management Science
- Economic Environment of Business
- Business Analytics
- Operations and Supply Chain Management
- Decision Making
- Strategic Management
- Corporate Finance
- Marketing Research & Metrics
- Human Resource Management
- Technology Innovation & Entrepreneurship
- International Business Strategy & Operations
- Information & Knowledge Management Systems

### Elective Courses (Any Four)

#### Finance

- Financial Risk Analytics & Management
- International Financial Markets & Services
- Functions and Working of Stock Exchanges
- Investment Banking and Financial Services
- Project Appraisal
- Risk Management and Insurance
- Strategic Financial Management
- Security Analysis and Portfolio Management
- Financial Engineering
- Management Practice
- Business Analysis and Valuation

#### Organization Behavior and Human Resource Management

- Cross Cultural Management
- Organizational Change and Development
- Innovative Leadership

- International Human Resource Management
- Performance Management
- Management Practice

#### Operations and Decision Sciences

- Manufacturing Strategy
- Technology Management
- Total Quality Management
- Project Management
- R & D Management
- Six Sigma
- Operations Strategy
- Supply Chain Analytics
- Management Practice
- Services Management System

#### Information Systems Management

- e-Business and Internet Marketing
- Internet Security and Cyber-laws
- Management Practice
- Expert Systems
- Enterprise Resource Planning
- Software Project Management

#### Marketing

- Advertising and Sales Promotion
- Marketing Models
- Sports Marketing
- Consumer Behaviour
- Services Marketing
- Industrial Marketing
- Retail Management Systems
- Digital Marketing
- Management Practice
- Marketing Research
- Product and Brand Management

#### Strategy & Entrepreneurship

- New Venture Creation
- Game Theory and Business Strategy
- Management Practice
- Creating and Leading Entrepreneurial Organization





## M.B.A in Business Analytics

The MBA in Business Analytics, offered by BITS Pilani Dubai Campus, is designed to develop among students the necessary skills and problem-solving aptitude needed in the process of data-driven decision making in the area of business and management. With a robust business analytics curriculum, its strong and unique industrial component, and through various innovative pedagogies, the institute aims to deliver a cutting-edge programs in an innovative and flexible learning environment. The focus is not only on producing impactful business analysts, but also on developing innovative and result-oriented, yet socially responsible individuals, who are eager to work for the greater good of humankind

### Career Pathways

Depending on your career aspirations, our MBA in Business Analytics programs can prepare you for different sectors of industry for various roles such as: Business Analyst, Marketing Research Analyst, Financial Risk Analyst, Supply Chain Analyst, HR Analyst, Data Analyst, Pricing and Performance Analyst, Business Consultant, Analytics Consultant, etc.

“I am incredibly grateful for the opportunity to intern at Tecon, which I secured through BITS Pilani Dubai. This internship has not only provided me with invaluable real-world experience but has also allowed me to apply the skills and knowledge gained from my education in a professional setting. I am thrilled to be part of a dynamic team at Tecon and look forward to contributing meaningfully to their projects.”



**Sakshi Puranik**  
currently pursuing MBA in  
Business Analytics from  
**BITS Pilani Dubai campus**

“



I am pleased to announce that I have secured an internship at DAMAC, owing much of this achievement to the exceptional support and opportunities facilitated by the BITS Pilani's placement cell. Their unwavering assistance has been instrumental in navigating this significant milestone in my career journey.”

**Mohammed Aadil Ilyas**  
currently in my second semester  
pursuing an MBA in Business  
Analytics at **BITS Pilani**

### Core Courses

- Managerial Economics
- Financial Statement Analysis & Reporting
- Marketing Management
- Managing People & Organizations
- Statistics & Basic Econometrics
- Data Management and Warehousing
- Programming for Analytics
- Deep Learning for Business
- Prescriptive Analytics with Mathematical Programming
- Strategic Management
- Corporate Finance
- Operations & Supply Chain Management
- Data Visualization, Ethics and Data Privacy
- Time Series Analysis and Forecasting
- Predictive Analysis

### Elective Courses (Any Four)

#### Pool - 1

- Advanced Spreadsheet & Macro Programming For Business
- Big Data Analytics
- Bayesian Analysis
- Natural Language Processing For Business
- Data Structures and Algorithmic Thinking

#### Pool - 2

- Advanced Spreadsheet & Macro Programming For Business
- Big Data Analytics
- Analytics For Supply Chain
- Supply Chain Finance
- Discrete Event Simulation
- IT Project management
- Marketing Analytics
- Digital Analytics
- Pricing Analytics
- Retail Analytics
- Customer Engagement And Analytics
- Marketing Research & Metrics
- Financial Analytics
- Financial Derivatives And Analysis
- Financial Modelling And Valuation
- Financial Technology
- People Analytics
- Strategy Analytics
- Knowledge Management And Digital Strategy



## Ph.D. (Doctor of Philosophy)

Research is an integral component in an institute of higher learning. BITS Pilani Dubai campus with its state-of-the-art research facilities offers Ph.D. programs with strong emphasis laid on interdisciplinary, mission oriented and relevant research. Topics of Research can be chosen from any of the disciplines in which the Institute offers the First and Higher Degree Programs or any interdisciplinary or allied areas.

BITS Pilani offers Ph.D. programs under the following schemes:

**Full-Time Ph.D.:** Candidates registered for the Full-Time programs will undergo the entire pursuit of their thesis on campus. Candidates admitted under this scheme will work full time towards their Ph.D. research and will not take any other assignment till the submission of the final thesis. The required components for Full-Time Programs are: Qualifying Examination, Course Work, Teaching Practice, Seminar, Doctoral Thesis and Research Methodology.

**Part-Time Ph.D.:** This unique opportunity is offered for employed professionals working in Industries, Academic Institutes and R&D organizations and having long experience and proven competence in various fields to work towards the Ph.D. degree. Candidates meeting the input qualifications and working in an organization, which encourages and facilitates research and situated preferably in the close vicinity of the BITS Pilani campus are eligible to apply for admission in “Part-Time” Ph.D. programs. The required components for Part-time Doctoral programs are: Qualifying Examination, Course Work, Practice Lecture Series, Research Methodology, Independent Study & Doctoral Thesis.

**Off-Campus Ph.D.:** Candidates meeting the admission qualification and working in an organization collaborating with BITS Pilani will normally be considered for admission to “Off-Campus” programs, also known as Ph.D. Aspirant Scheme. Such candidates will be allowed to pursue their research at their own locations of work. The required components for Off-Campus Doctoral programs are: Qualifying Examination, Course Work, Practice Lecture Series, Research Methodology, Independent Study & Doctoral Thesis.

Apart from the regular Ph.D. programs, BITS Pilani Dubai Campus offers the following new programs based on specific projects obtained by the faculty members in different schemes. The Ph.D. scholars will be recruited across all the campuses for the following programs centrally and guided by a team of faculty members involved in the project. The projects will be announced twice in a year in the respective portals. The recruited scholars will be provided attractive stipends and fee concessions.

• **The BITS-RMIT PhD Program** is a unique transnational program that allows to obtain a joint PhD, from two leading universities BITS (Birla Institute of Technology and Science) and RMIT (Royal Melbourne Institute of Technology). The scholars will have an opportunity to spend a year in RMIT.

(For details, refer the link <https://bitsrmit.in/>).

• **The School of Interdisciplinary Research and Entrepreneurship (SIRE)** is envisioned to be a virtual entity that promotes interdisciplinarity in Research and innovation within BITS Pilani. Ph.D. Programs: CDRF, SPARKLE, SOLVE & Ph.D. Drive.

(For details, refer the link: <https://sire.bits-pilani.ac.in/>).

## RESEARCH AREAS

### Department of Biotechnology

Biological synthesis of Nanoparticles, Applications of metal nanoparticles, Nanotherapeutics, Applied Nanotoxicity, Biomaterials

Salinity stress studies in plants, Sustainable agriculture, agroforestry, Sustainable food production systems

Qualitative and quantitative analysis metabolites, biomarker identification, Systems Biology, Bioinformatics

Industrially important microbes, microalgal Biotechnology

Biophysical Journal

Journal of American Chemical Society

Nature Communications

#### Nanobiotechnology

#### Agricultural Biotechnology

#### Bioinformatics & Computational Biology

#### Environmental Biotechnology

#### Molecular Biology and Biotechnology

#### Research Outcomes

Department has more than 90 Publications in esteemed journals with SCI and Scopus indexed Gene, Journal of BioNanoScience, ACS Applied Nano Materials, ACS Biomaterials Science & Engineering, Nanomedicine, Chemical Communication, Journal of Biological Macromolecules, Analytical and Bioanalytical Chemistry, Metabolomics, Nucleic Acid Research etc

#### Facilities

- Biotechnology Research Laboratory
- Instrumental Methods of Analysis Laboratory
- Molecular Biology Laboratory
- Genetic Engineering Laboratory
- Microbiology Laboratory
- Industrial Microbiology & Bioprocess Laboratory
- Microscopy and Imaging facility
- Cell Biology Laboratory
- Mammalian Tissue culture Laboratory

Laboratories are equipped with state of the art instruments like ICP-OES, HPLC, Clinical Chemistry Autoanalyzer, GC-MS, Rheometer, Fermenter, Protein/ DNA Electrophoresis systems, PCR, RT-PCR, Chemiluminescence gel documentation system, ELISA reader, Research Microscopes, Microalgal culture facility, Ultrasonicator, Electroporator etc.

### Department of Chemical Engineering

Wastewater treatment by carbo- and photocatalysis and mesoporous carbon.

Biofuels from Biomass, Activated Carbon from Biomass, Graphene based membranes, Biodegradable films for packaging.

Nanoscale engineering for energy and environment, Computer-aided molecular design, Heat exchanger network design.

Membrane Filtration, Adsorption, Electrocoagulation.

Energy and resources from Biomass, Supercritical Fluids and hydrothermal processing.

#### Water and Waste water Treatment

#### Materials Science & Engineering

#### Nanostructure Engineering

#### Process System Engineering

#### Separation Processes

#### Energy Engineering and Renewable Energies

More than 50 Publications in esteemed SCI & Scopus-indexed journals

#### Research Outcomes

Department has research publications in Chemosphere, Journal of Environmental Chemical Engineering, Optical Materials, Journal of Energy Storage, Separation and Purification Technology, Computers and Chemical Engineering

#### Facilities

- Gas Chromatography-Mass Spectrometer (GC-MS), Tensiometer, Thermal Gravimetric Analyzer (TGA), Differential Scanning Calorimeter (DSC), Contact angle Goniometer, Humidification chamber, UV Spectrophotometer – DRS, Vacuum Distillation
- Process Control Lab
- Chemical Engineering Lab
- Petroleum Lab
- Analytical lab
- Pyrolysis lab
- Project lab

**Software:** Aspen Plus & Aspen Hysys, Matlab and Minitab.



# RESEARCH AREAS

## Department of Civil Engineering

Passive Solar Architecture,  
Energy Efficient Building Design  
Thermal Performance Evaluation

Hydrological Modelling, Climate  
change Impact and Projection  
studies, Surface Hydrology,  
Flood risk management, GIS and  
Remote Sensing, Data mining

Seismic soil-structure interaction,  
Site response analysis, Soil  
liquefaction, Stochastic variability,  
NDT testing of RCC structures

Steel Fiber-Reinforced  
Con- crete, Reinforced Concrete,  
Steel Concrete Composite Stru-  
ctures, PPVC

Uncertainty Quantification,  
Reliability Analysis of Flexible  
Pavements, Demand-Responsive  
Transportation

Sustainability in Building Design

Hydrological Modeling

Impact of Climate Change

Seismic Soil Structure Interaction

Non-destructive Testing Techniques

Testing of Structural Members

Pavement Design

Modelling & Simulation

More than 50 Publications in SCI and  
Scopus Index Journals have been  
published.

### Research Facilities

- Shake Table II - Quanser
- Servopulser 100 kN Dynamic UTM
- Ground Penetrating Radar
- Pundit Proceq PL200E – UPV
- Triaxial Testing Machine
- Brookfield Viscometer
- HOBO Weather Station

### Computational capabilities

- ArcGIS - GIS and Mapping software
- MATLAB – MathWorks and Simulink
- PLAXIS 2D - Bentley Systems
- PTV VISSIM
- Abaqus FEA - Simulia
- Bentley STAAD.Pro Connect
- OpenSees
- AutoCAD - Autodesk

## Department of Computer Science

Application of Deep Learning for  
Disease Detection

Developing Software Testing  
Models using Machine Learning

Finding a Solution to the Spectrum  
Scarcity Problem in the  
Aero-nautical communications

Developing a Smart Parking  
module using IoT and ML for  
smart city

Develop AI Models for Human  
Behaviour

Object Detection, Segmentation  
and Classification of Images  
using ML & DL

Designing Intelligent Security  
Solutions for IoT, IoPTs, and Soft-  
ware Defined Network

AI in Healthcare

Machine Learning/ Deep Learning

Artificial Intelligence

Internet of Things (IoT)

Cyber Security

Image processing

Wireless Networks

Cloud Computing

Multimedia Services

### Research Facilities

- Machine learning: High End GPU for Deep Learning, 480GB SAS, 2.4TB Hard Drive, NVIDIA Tesla V100 32GB GPU
- Dell-Precision 7920 Tower workstations
- IoT: Raspberry Pi 4B+ + single board computer +Various Sensor kits
- CISCO Catalyst Switch & Router
- Design: Adobe Creative
- Network Simulation: Netsim Academic
- Software Lifecycle Modelling Tool: Enterprise Architect
- Mathematical Simulation Tools: Mathematica Software
- Multimedia tools and peripherals with VR and AR devices and software

More than 130 papers are published in esteemed journals with SCI and Scopus indexing like IEEE systems Journal, IEEE Transactions on Instrumentation and Measurement, IEEE Internet of Things Journal, IEEE Transactions on Cognitive and Developmental Systems, SOFT COMPUTING, Multimedia Tools and Applications, Pattern Recognition Letters and so on.

# RESEARCH AREAS

## Department of Electrical and Electronics Engineering

Antenna design, Mobile &  
Satellite Communication

Robotics & Industrial Automation,  
Biomedical Instrumentation,  
Mechatronics, Process Control

Smart Grid, Stability Analysis,  
FACTS, HVDC

Power drives, Power quality,  
Distribution Apparatus, Electric  
Vehicles

Hybrid Systems, Solar  
& Wind Energy, Building  
Energy Management, Energy  
Optimization

AI in health care & Automation,  
Biometrics, Intelligent buildings

Digital Signal & Image  
Processing, Medical Image  
Processing, Medical diagnostics

Neuromorphic Computing,Bio  
Sensors, In-Memory Computing  
and Embedded Computing

Wireless Communication

Instrumentation & Control

Power Systems

Power Electronics

Renewable Energy

AI, IoT & Smart Cities

Biomedical Engineering and Image  
Processing

Semiconductor devices & Sensors

More than 250 Publications in esteemed journals with SCI and Scopus indexing like IEEE Transactions on Industrial Electronics, IET Proceedings on Science, Measurement & Technology, Elsevier Measurement, Applied Soft Computing, Elsevier, Biomedical Signal Processing and Control, Elsevier, IET Renewable Power Generation.

### Research Outcomes

- More than 250 publications
- Patents
- Conferences & Workshops
- Industry & University Collaborations
- Research Projects and Grants

### Research Facilities

- MATLAB
- Cadence
- CST Microwave Studio
- Multisim
- LabVIEW
- MiPower
- Gaussian
- VASP
- AWS
- Process Rigs

## Department of Mechanical Engineering

Design and development of  
Direct Liquid Fuel Cell, Polymer  
Electrolyte Membrane Fuel Cell,  
Renewable Energy, Energy and  
Exergy Analysis, Heat Transfer  
and Fluid Flow Analysis.

Experimental Fluid Mechanics,  
Bluff Body Aerodynamics, Passive  
Flow Control, Drag Reduction,  
Flow Visualization, Hypersonic  
Aerothermodynamics for Lifting  
Bodies, Bio-inspired Flow Mechanics.

Improving the performance  
of structures under thermo-  
mechanical loads, Additive  
Manufacturing, Micromechanics  
of Composites, Multi-scale  
Computational Modelling, Bio  
inspired metamaterials, Adhesive  
Joints, Mechanical Testing, Metal  
forming, Welding, Machining.

Materials development;  
Bulk Metallic Glasses; Bio-  
Tribo-Corrosion behaviour of  
alloys; Glass forming ability,

Mechanical Metallurgy – Texture,  
residual stresses

Direct Liquid Fuel Cell –  
Renewable Energy

3-D Bluff Body aerodynamics –  
Bio-inspired Flow Mechanics

Computational Fluid Dynamics – High  
Pressure Combustion Systems

Additive Manufacturing –  
Micromechanics of Composites

Metal Forming – Welding Industrial  
Robotic Manipulators

Particle image velocimetry, Free  
falling Snowflakes

Bio-Tribo-Corrosion – Behaviour  
of Alloys

parameters; Magnesium Based  
Syntactic foams; High Entropy. Path  
planning, Navigation and Control  
of Mobile Robots, Industrial Robotic  
Manipulators.

### Research Outcomes

- Conferences Organized:**  
IMMT17, ICRAFT18, IMMT19,  
ICRAFT20
- Research Collaboration:**  
Khalifa University, American  
University of Sharjah, NUS,  
SNU, University. of Tokyo, IITB,  
IITK, UAE University, University  
of Glasgow, IITR
- Recent Projects:** EXPOLIVE  
2 (AED 50,000), GYTI BIRAC  
Grant 2020 (INR 15 lac), 3 SEED  
Grants (90,000 each), 2 RIGs  
(20,000 each) More than 150  
publications in quality journals  
in last 5 years

### Research Facilities

- Abaqus FEA, Ansys
- SolidWorks
- Dynamic UTM
- SLA 3D Printer
- MSC Simufact
- Potentiostat



## RESEARCH AREAS

### Department of General Sciences

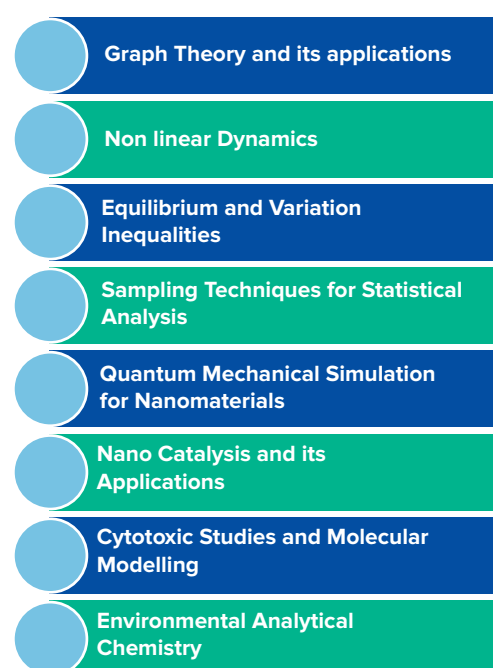
Study of 2D materials for Gas and Bio sensors using Ab Initio Simulation tool

Queuing theory and Sampling Techniques; Inventory Modelling and Sustainability; Nonlinear Dynamics, Convective Heat Transfer in cavities ;Wave theory

Graph Theory and Dominance in Graphs; Computational Biology; Variational Inequality and Equilibrium problems

Nano catalysis and its applications; Environmental Analysis and Modelling; Climate change and its Impacts studies; Cytotoxic Studies of metal complexes and Molecular Modelling

Synthesis and characterization of Nano hydroxyapatite and Crystal growth of Semi-conducting materials



#### Research Publications

Department of General Sciences brings together faculty in disciplines of Physics, Chemistry and Mathematics. Outstanding faculty members from the best educational institutions around the world with over 200 high impact factor publications in SCI and Scopus indexed Journals.

#### Research Facilities

- UV-Visible Spectrometer Fourier
- Transform Infrared
- Spectrophotometer (FTIR),
- Gas Chromatography -Mass Spectrometer
- Thermal Gravimetric Analyzer
- High Performance Liquid Chromatography (HPLC)
- Zetasizer
- Software available for research including Gaussian
- MATLAB, VASP etc

### Department of Humanities and Social Sciences

Public Policy & Governance, Migration and Diaspora Studies, Political Economy of Gulf States, Indian Politics, Comparative Politics

International Politics, Development Studies, East Asian Affairs, International Law, South Asian Geopolitics, Human Rights

Corporate and Campus Sustainability, Sustainable Development, Linguistics, Arabic Studies

Psychology, Postcolonial IR theory, Environmental Humanities, Geographical Humanities, Postcolonial Literature and Theory



#### Research Publications

- Pandemic Expectations & Expatriate Job Performance
- Migration Policy and Governance in the GCC States
- Contemporary Japanese Politics
- Public Policy Measures for Covid-19 Crisis Management in the UAE
- Childhood and Public Life
- Opium and Norms in International Relations
- Indigenous Patriarchy and Women-Nature Bon
- Language and Borders
- South Asian Migration in UAE
- Practices of CSR in the UAE Banking Sector

## RESEARCH AREAS

### Department of Management Studies

Consumer Behavior, Branding, Sustainable Marketing, Marketing Communications

Macroeconomics, Microeconomics, Inflation Targeting, Time-series Econometrics

People Analytics, Knowledge Management, Mindfulness, Personality, Corporate Governance

Earnings Management, Asset Pricing, Volatility Modeling, Market Efficiency, GCC Stock Markets, Sustainable Finance

Humanitarian Supply Chain, Logistics, Optimization, Sustainable Supply Chain



#### Research Publications

Faculty from the department continuously publishes in top-tier academic journals such as ABDC ranked journals. Some recent publications from the department are on the following themes:

- Tail Risk, Beta Anomaly, and Demand for Lottery
- Oil Price Shocks and Macroeconomic Variables
- Humanitarian Supply Chain
- Impact of COVID-19 on Tourism
- Climate Finance
- Brand Personification
- Impact of COVID-19 on Human Health Behavior
- Inflation Targeting

## INNOVATION & ENTREPRENEURSHIP

BITS Pilani, Dubai has taken a leap forward to encourage innovation & entrepreneurship skills among students by taking the following Initiatives

#### INITIATIVES BY BITS PILANI, DUBAI

- Incubation Centre – Powered by Dubai SME
- 24X7 Creative Lab
- Minor programs offered in Entrepreneurship New Venture Creation, Business Management and more
- Seed funding support through Alumni and Dubai SME
- Meeting and interactions with experts and investors
- Mentor allocation to all start-ups through alumni & Dubai SME
- Encouraging students participation in various events, pitching sessions and B-Plan competitions

#### MORE THAN 50 START-UPS & 2 UNICORNS INITIATED IN LAST 5 YEARS BY STUDENTS AND ALUMNI



## PRACTICE SCHOOL (INTERNSHIP)

BITS Pilani is a pioneer in the field of university industry linkage & its bold and radical innovation in this regard has no parallel. The Practice School (PS) programs is a controlled simulation of real life where the student relates & applies their classroom knowledge and skills to the real issues faced by the industry. PS is a part of the total programs and takes the classroom to a professional location for a period of 5½ months, where the students under the supervision of faculty get involved in real life situations.

The students undergo internship and work as the employees of the organization, participate in day-to-day activities of the workplace and work on specific projects assigned, in a problem solving

mode, under the professional experts of the host organization. As with all other courses, a process of continuous evaluation is also followed for PS. Students are evaluated for interdisciplinary approach, decision making, written and oral presentation, leadership, team work etc. apart from the technical work, by the faculty & experts from the host organization.

The PS Programs has paved the way for extensive collaborations between the faculty and the industry.

### COLLABORATION WITH OVER 300 COMPANIES FOR INTERNSHIP

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Emerson Automation Solutions</li> <li>• PwC Middle East</li> <li>• Dubizzle</li> <li>• Johnson Controls</li> <li>• Lamprell</li> <li>• Siemens</li> <li>• ESRI</li> <li>• Reckitt Benckiser (Arabia) FZE</li> <li>• L&amp;T Electrical &amp; Automation</li> <li>• Schindler</li> <li>• Schneider Electric</li> <li>• The Emirates Group</li> </ul> | <ul style="list-style-type: none"> <li>• Zomato Media Pvt.Ltd</li> <li>• MSD DIC</li> <li>• Bosch</li> <li>• Aster Hospital Group</li> <li>• Star Cement</li> <li>• Fly Dubai</li> <li>• Carrier Middle East Limited</li> <li>• Fedex Express</li> <li>• GRUNDFOS Gulf Distribution FZE</li> <li>• Lucy Switchgear FZE</li> <li>• Protiviti Member Firm Middle East</li> <li>• Thyssenkrupp Elevators</li> </ul> |
|--|--|

- TUV Nord
- Weidmueller
- Petrofac
- Redington
- Voltas
- Yokogawa
- Savills LLC
- Lloyd's Register EMEA
- Emirates Hospital Group and many more

### EMPLOYER SPEAK

"When it comes to recruitment, we always look for excellence. That is why we partnered with BITS Pilani, Dubai as their students are professional, full of hunger and have all the drive that we look for in new recruits"

**Jide Ore**  
Talent Acquisition Manager,  
Emerson Middle East & Africa

" Our experience with BITS Pilani has been very rewarding and satisfying as an organisation, we see the quality of talent to be sustainable and strategic investment to us when we host their internship program".

**Rainier Tayao**  
HR Director,  
Schindler Group, U.A.E.

"The students have positively added to the projects that we are working on by taking active development, testing and QA roles. They exhibited good sense of teamwork, academic acumen and were eager to learn and assimilate new technologies".

**Satish Kumar Menon**  
Chief Operations Manager,  
ESRI Global Inc, Sharjah, U.A.E.

## PLACEMENTS

BITS Pilani, Dubai Campus is committed to providing its graduating students the best career opportunities through the Campus Placement Programs (CPP). Students are provided with adequate career counselling and they are empowered to make sound decisions for their future. Regular training programs for soft skills, technical skills, and expert talks are organized to make our students more employable. We host numerous placement drives including Career Fairs Full-Time and off-campus with numerous local and International companies. We provide all facilities for companies to conduct their pre-placement presentations, interviews and screening tests on campus.

### REPUTED COMPANIES HIRING OUR STUDENTS

- ABB, U.A.E.
- Accenture Middle East, U.A.E.
- BAIN & Company, U.A.E.
- Bosch, U.A.E.
- Careem, U.A.E.
- Dell International Services, India
- DNV GL, U.A.E.
- Dubizzle, U.A.E.
- EMERSON, U.A.E.
- Emirates Industrial Gases Co.,U.A.E.
- Emirates Sky Cargo, U.A.E.
- Ernst & Young India
- ESRI, Sharjah, U.A.E.
- ETA MELCO (Mitsubishi), U.A.E.
- Etisalat, U.A.E.

- Fly Dubai, U.A.E.
- Halliburton, K.S.A.
- Honeywell Middle East, U.A.E.
- HSBC, India
- IBM, India
- J Ray Mc Dermott, Middle East, U.A.E.
- Johnson Controls, U.A.E.
- L&T, U.A.E.
- Lucy Switchgear, U.A.E.
- Maersk, U.A.E.
- McKinsey, India
- Microsoft, U.S.A.
- Nestle, U.A.E.
- Oracle, U.S.A.
- Panasonic – Middle East, U.A.E.
- Petrofac International, U.A.E.
- Procter and Gamble Gulf FZE, U.A.E.
- Protiviti, U.A.E.
- PWC, U.A.E.
- Qualcomm, U.A.E.
- Reckitt Benckiser, U.A.E
- Redington Gulf
- RTA Dubai, U.A.E.
- Schindler, U.A.E.
- Schneider Electric , U.A.E.
- Siemens LLC, U.A.E.
- Sony Ericsson, NC, U.S.A.
- Standard Chartered Bank, U.A.E.
- Talabat, U.A.E
- Tanfeeth - Emirates NBD Group Company, U.A.E.
- Tata Consultancy Services, India
- Tetrapak, U.A.E.
- W.S. Atkins, U.A.E.
- Wipro, India
- Worley Parsons, U.A.E.
- Zomato- U.A.E and many more...





## CAMPUS FACILITIES AND SUPPORT SERVICES

### LIBRARY

The library block spread over two floors has a great ambience & contemporary design with reading halls, reference section, stacking area, discussion rooms, individual study carrels and faculty lounge. It also has a digital library and internet browsing centre.

The library is open from 7:30 am to 10:00 pm on all working days with extended timings up to 12 midnight during comprehensive examinations and tests.

### THE LIBRARY FACILITIES

- Access to the information resources necessary or the Institute to achieve its academic and research goals & enhance access to information in all formats to meet the needs of students, faculty and staff
- A wide selection of collection of more than 23,360 books, journals, magazines, CD- ROMs, project reports, thesis and back volumes in the core disciplines of Engineering, Management and Sciences. The Library has a collection of General Aptitude books on TOEFL, GRE, GMAT, IELTS, GATE etc.
- Access to ScienceDirect, IEEE Xplore Digital Library, ASME digital collection. ACM and Press Reader e-magazines
- Access to 1,770 e-Books from IEEE-MIT Press, IEEE- Wiley e-Books through IEEE Xplore Digital Library and more than 46 BPDC course text and reference e-Books

- E-Library for accessing our subscribed e-journals databases, e-books, e-magazines and library catalogue remotely, anywhere, anytime on any device.
- Institutional Repository which contains the digital collection of Research Publications of faculty, Practice School Reports, Project Reports, Thesis / Dissertations and etc.
- Self-check-in and check-out kiosk for easy transactions of library resources and automated library operations with access to web enabled OPAC (Online Public Access Catalogue)
- Access to the digitized question papers of all examinations since 2003 through the library portal.
- Electronic document delivery services from Home Campus Library and Inter Library Loan Service.
- Network printing, photocopying and scanning facilities for students.

### VIRTUAL STUDY SPACE

Institute has adopted the online platforms such as Impartus, Webex, googleMeet, Zoom, Google classroom and Microsoft Teams to continue the education and make sure the learning is uninterrupted to the students during the pandemic situation. Online evaluation platforms such as CodeTantra, Socrative, google classroom, google Meet and WebEx are being used for conducting examinations. Laboratories and lab comprehensive examinations are conducted by using the virtual lab such as Platify, Cisco webex hands-on lab. Wacom pen displays are installed in all the classrooms to make the classroom a smart classroom. It will augment the teaching and learning to the next level by supporting digital learning in the Full-Time/online/hybrid mode classrooms.

## CAMPUS FACILITIES AND SUPPORT SERVICES

### HOSTEL FACILITY

Separate hostel facilities are available for boys and girls. The hostel accommodation is mandatory for students who are Non-Residents of U.A.E. and are on Institute Visa. It is suitably equipped to provide a safe and secure living environment. Each hostel has a resident warden and other essential staff. The rooms are single occupancy fully air-conditioned and furnished with a bed, cupboard & study table. Hostels are also Wi-Fi enabled & provided with fully equipped Recreational Rooms, Laundromat, Gymnasium, First-Aid & Sports facilities. Both vegetarian and non-vegetarian food is provided in the hostel mess.

### SPORTS AND FITNESS

The institute provides both Indoor & Outdoor sports facilities. An indoor sports complex provides for badminton, table tennis, carrom, chess, foosball, pool table etc. The outdoor sports facilities include tennis, basketball, volleyball, throwball, football, handball and nets for cricket practice along with a turf cricket ground, grass football ground and professional athletics synthetic track. Gymnasium is provided for both girls & boys separately

### HEALTH SERVICES & INSURANCE

The Institute provides an ambulatory clinic in the campus with a doctor and nurse available for first aid and emergency care. The students are transported to the hospital in cases of emergency.

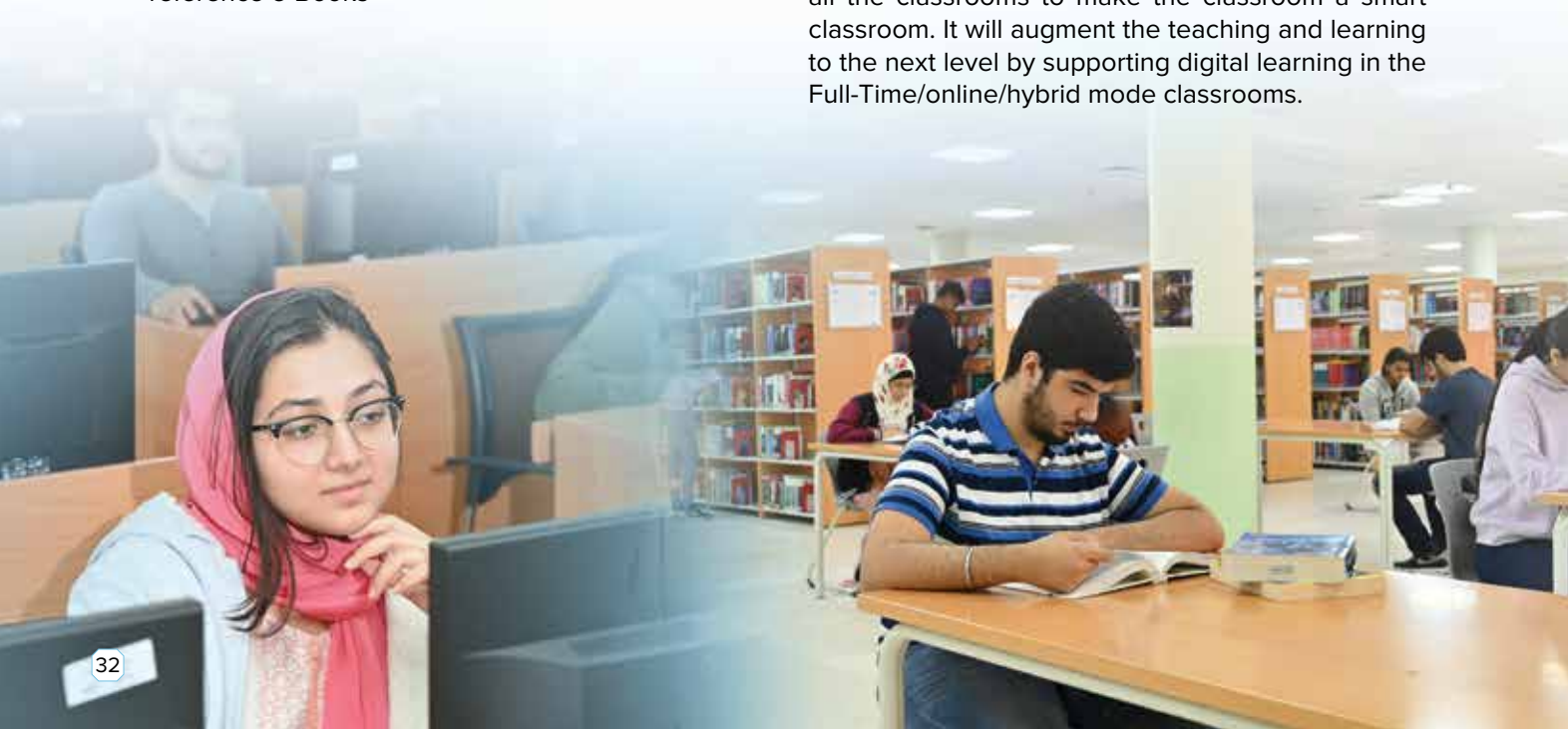
It is mandatory for every student to have medical insurance that is valid in UAE. The Institute has made arrangements with a leading insurance company to facilitate Medical Insurance for students. Students already insured must submit proof of valid Medical Insurance applicable in U.A.E.

### CAFETERIA & MINI MART

There is a full-fledged cafeteria within the campus for students and faculty to have snacks, meals, soft drinks & beverages. There is a Mini Mart within the premises which sells several items including food & stationery. Vending machines for snacks and hot / cold beverages are provided across the campus at various locations.

### STUDENT VISA

It is mandatory for all students to have a valid UAE residence visa for admission. The Institute facilitates UAE's student residence visa through Dubai International Academic City (DIAC) as per the rules & regulations of the institute & Government of UAE to the non- residents of UAE and UAE resident students who are not employed or whose parents cannot sponsor their visa.





# ADMISSION PROCESS

Admission to BITS Pilani, Dubai Campus (BPDC) is based entirely on the candidate's merit, facilities available and availability of seats in the discipline preferred

## ELIGIBILITY CRITERIA FOR M.E./M.B.A. Programs

A minimum aggregate of 60% in the qualifying degree as indicated below for each programs.

- M.E.Design: B.E./B.Tech. in Mechanical Engineering or equivalent.
- M.E. Electrical: B.E. / B.Tech. in EEE / E&I / ECE or its equivalent.
- M.E Civil: BE / B.Tech in Civil Engineering or equivalent. (Mechanical and Electrical Engineers may also be considered conditionally)
- M.E. Software Systems: B.E. / B.Tech. / M.Sc. / M.C.A or equivalent
- M.B.A. Programs: Bachelor's Degree in any discipline or its equivalent with Maths and Statistics pursued in High School or higher level.

## APPLICATION PROCEDURE FOR ADMISSION TO HIGHER DEGREE Programs (M.E. / M.B.A.)

- The Application Form is available online on the admissions web: [www.bits-pilani.ac.in/admissions](http://www.bits-pilani.ac.in/admissions). Click on Applications 2024-25 to Apply Online and proceed further.
- Sign-up as a New User, fill your details and select Programs Level as Higher Degree (M.E./M.B.A)
- Enter all the information required carefully in the online form.

**Read Admission Bulletin 2024-25** carefully for detailed instructions on the application procedure, list of documents to be uploaded with the application form & application fee amount with payment instructions.

## ELIGIBILITY CRITERIA FOR Ph.D.

M.S./M.B.A./M.Phil. of BITS Pilani or its equivalent with a minimum of 60% aggregate.

Eligible Candidates will be required to take a written test and interview. The admission will be based on the performance in the qualifying degree, experience, test and interview.

Candidates applying for part-time should be working in an organization located in the close vicinity of the institute and which encourages and facilitates research. The candidate must have a minimum of one-year experience in a related field. Candidates applying for Off-Campus should be working in an organization having a collaboration with BITS Pilani and must have a minimum of one-year experience in related fields. The admission will be based on the performance in the qualifying degree, experience and admission test. Selected candidates will be provisionally admitted and will be required to clear the Ph.D. qualifying exam before proceeding with their research.

## APPLICATION PROCEDURE FOR ADMISSION TO DOCTORAL Programs (Ph.D)

- The Application Form is available online on the admissions web: [www.bits-pilani.ac.in/dubai/admissions](http://www.bits-pilani.ac.in/dubai/admissions). Click on Applications 2024-25 to Apply Online and proceed further.
- If you are a candidate for admission to Full-Time Ph.D. programs, Sign-up as a New User, fill your details and select Programs Level as Ph.D. Full-Time
- If you are a candidate for admission to part-time / off-campus Ph.D. programs, Sign-up as a New User, fill your details and select Programs Level as Ph.D. Part-Time / Off-Campus.

**Read Admission Bulletin 2024-25** carefully for detailed instructions on the application procedure, list of documents to be uploaded with the application form & application fee amount with payment instructions.

# FEE STRUCTURE

## FEE STRUCTURE FOR ACADEMIC YEAR 2024-25 HIGHER DEGREE PROGRAMS

The normal duration of the program is 2 years (4 Semesters)  
First Semester: September - January & Second Semester: February - June

PARTICULARS	AMOUNT
<b>A. One-time Fee (payable at the time of Admission)</b>	
Application Fee**	AED. 220
Admission Fee*	AED. 2,000
Activity Fee*	AED. 1,200
Caution Deposit\$	AED. 2,000
<b>B. Tuition Fees*</b>	
M.E./M.B.A. Tuition Fee (payable in 2 installments)	AED. 16000 per semester
Ph.D. Tuition Fee (Full-Time)	AED. 2,400* per semester
Ph.D. Tuition Fee (Part-Time/Off-Campus)	AED. 6,000* per semester
<b>C. Visa and Insurance Fee (For students availing Visa/Insurance)</b>	
Visa Fee (For Students on Visa provided by the institute)	
Fresh Visa Fee**	AED. 2,900
Visa Renewal Fee**	AED. 2,150 per annum
Medical Insurance Fee*	AED. 2,700 per annum
(Current prevailing Visa & Insurance Fee, subject to change)	
<b>D. Hostel Fee (For students availing Hostel)</b>	
Hostel Fee***	AED. 15,000 per semester
Facility Fee*	AED. 850 per annum
Summer Term (if availing) ***	AED. 5,200 per term
Hostel Caution Deposit#	AED. 2,000
Laundry charges and Service charge for using refrigerator in room are additional	

Note: A fee of AED 4000 per course plus VAT is applicable for casual students registering for any course on audit only during any semester apart from a one-time admission fee  
\* VAT of 5% is applicable on this fee  
\*\*VAT of 5% is included in this fee  
\*\*\*VAT of 5% will be charged on the food cost of this fee  
\$ Refundable on graduation or on leaving the institute, after due adjustment for damages, breakages caused by the student, if any  
# Fee after providing a fee waiver of 80% of tuition fee for Full-Time scholars and 50% of tuition fee for Part-time and Off-campus scholars



## SCHOLARSHIPS & CONCESSIONS

### 1. For New Admissions

- a) Merit in Qualifying Examination (B.E./ B.Tech. or its equivalent)
  - i) Tuition Fee Scholarship: Students who have obtained 75% or above in the aggregate of the qualifying examination are given a merit scholarship of 20% of first semester tuition fee.
  - ii) Hostel Fee Concession: Admitted Candidates who have obtained 80% or above in the aggregate of the qualifying examination will be offered a 25% concession in the Hostel fee for the normal duration of the programs (two years).
- b) Students who are UAE Nationals will be offered 50% tuition fee scholarship based on their performance in the qualifying examination and continuity of a minimum CGPA of 6.00 on a 10.00 scale during the programs
- c) BITS Alumni, Candidates from Collaborative Organizations / Companies and Siblings / Parents / Spouses of continuing students will be offered a 10% concession on the tuition fee, during the normal duration of the programs.

2. Merit Scholarship for continuing students: Students with a CGPA of 9.00 or above on a 10.00 scale at the end of previous semester will be given a merit scholarship of 20% of tuition fee for the current semester for the normal duration of the programs.
3. Group Concession for Corporate Executives: Three or more candidates from the same organization seeking admission into any higher degree programs in any semester of academic year 2024-25 would be eligible for a 10% concession on the tuition fee for the normal duration of the programs, subject to the continuance & completion of the degree programs by all candidates.

## FINANCIAL ASSISTANCE

BITS Pilani, Dubai has an arrangement with SBI, ICICI, HDFC Credila, Axis Bank in India and Emirates NBD in UAE for providing student loans to all the students seeking admission at Dubai Campus.

You may avail this student loan which covers the entire cost of your education and most of the living expenses based on your eligibility, with competitive interest rates. There is also an option for repayment after you graduate from the Institute in some Indian banks. Contact admissions office for more details.

### Additional Advantages:

1. Attractive Tax benefits (Banks in India)
2. Easy, Convenient & Flexible
3. Cost of education + Living expenses taken care of
4. Repayment period of 10-15 years

0% INTEREST FREE INSTALLMENT PLAN FOR FEE PAYMENT BY



## IMPORTANT DATES

### IMPORTANT DATES IN THE ADMISSION PROCESS FOR HIGHER DEGREE Programs

EVENT	FIRST SEMESTER	SECOND SEMESTER
Last Date for receipt of Application	07 June 2024	12 December 2024
Admission test/Interviews	11 & 12 June 2024	17 & 18 December 2024
Orientation & Registration	30 August 2024	31 January 2025
Commencement of Classes	01 September 2024	02 February 2025

Applications received after the last date will be considered as 'Late Applications' and will be accepted for admissions, subject to merit and availability of seats.

### IMPORTANT DATES IN THE ADMISSION PROCESS FOR DOCTORAL Programs

EVENT	FIRST SEMESTER	SECOND SEMESTER
Last Date for receipt of Application	30 May 2024	05 December 2024
Admission test/Interviews	13 June 2024	19 December 2024
Orientation & Registration	30 August 2024	31 January 2025
Commencement of Classes	02 September 2024	03 February 2025

Applications received after the last date will be considered as 'Late Applications' and will be accepted for admissions, subject to merit and availability of seats.



## Notes

## Notes





## **Birla Institute of Technology & Science, Pilani** Dubai Campus

### **Dubai Campus Admissions Office**

Dubai International Academic City  
P.O. Box: 345055,  
Dubai, UAE  
Tel: +971 4 275 3700 / 3711

3<sup>rd</sup> floor, Spaces & More Business Centre  
Plot No: 645, Above SBI, Road No. 36,  
Jubilee Hills, Hyderabad, Telangana 500033  
Mob: +91 7207899869, +91 9121907799

✉ [admission@bitspilanidubai.ae](mailto:admission@bitspilanidubai.ae) 🌐 [www.bits-pilani.ac.in/dubai/](http://www.bits-pilani.ac.in/dubai/)

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