

## **HISTORICAL BACKGROUND OF THE UNIVERSITY**

The NED University of Engineering & Technology, was established in March 1977 under an Act of the Provincial Assembly of Sindh after upgrading of the former NED Government Engineering College, which was set up in 1921. The NED University is thus one of the oldest institutions in Pakistan for teaching and producing Engineering graduates. Prior to this, the D.J. Science College, used to run classes to train subordinates for the Sindh P.W.D., the Municipalities and Local Boards. On August 29, 1921 College Principal C.S Shahani made a concerted effort to get Engineering Degree classes started to meet demands of Civil Engineers on the project for completion of the Sukkur Barrage. Application to this effect was made to the University of Bombay through the Commissioner of Sindh, who was ex-officio president of Sindh Collegiate Association (a registered society of subscribers for providing higher education in Sindh). The Bombay University, however, rejected the application on the grounds of insufficient finances and insisted on entirely separate buildings and laboratories for the engineering college as a separate institution. After collection of donations from the Puribai and Becharbai Trust, Vishandas Fatehchand Brothers and one huge donation (for that time) of Rs.150,000 from the heirs of Mr. Nadirshaw Edulji Dinshaw, the new college buildings and laboratories were constructed on a separate land. The new college was originally the Prince of Wales Engineering College but later renamed in memory of Nadirshaw Edulji Dinshaw. The NED College was provisionally granted affiliation on 23-05-1923 by the University of Bombay for the First and Second Year courses in Civil Engineering and 78 students were provisionally admitted into first year classes in 1922. Permanent affiliation followed in February 1927. The first-full time Principal of NED Engineering College was Mr. G.N.Gokhale who joined on 1st July 1923. Prior to this, Rai Sahib Bhupatrai had acted as Honorary Principal. The first professor (and Vice Principal) was Mr. S.B. Jannarkar who, along with Mr. Gokhale, did all the spadework in organizing and equipping the various departments, and ordering the equipment for the Power House, Boiler Room, Hydraulics Laboratory, Engine Room and Machine Shops. The original NED Engineering College was housed in four blocks of buildings and two sheds. The main block was named as Seth Fatehchand Dewandas Khilnani Hall. The block housing the Power House, Electrical and Hydraulics Laboratories, and Workshops was named after Bai Puribai and Bacharbai. Further additions were made to this block to provide accommodation for the Machine Shop on the ground floor and a (Mechanical) Drawing Hall on the first floor. The fourth block, completed in 1945, contained a Classroom and Clerk's Office on the ground floor and another (Civil) Drawing Hall on the first floor. Two sheds were also built, one to house the Carpentry and Smithy Shops, and the other, alongside the Electrical Laboratory and Engine Room, to train technicians. The total cost of the buildings was just over Rs. 265,000 and the cost of equipment (including machinery, electrical instruments; models, steam, gas and oil engines; surveying and leveling instruments), books and furniture was just under Rs. 400,000.

The college remained affiliated to the University of Bombay from its inception in 1922 to 1947, after which it was taken over by the Government of Sindh; renamed as NED Government Engineering College and affiliated to the University of Sindh. After establishment of the University of Karachi in 1951, the affiliation of the College was transferred to this University. In

1964, a comprehensive plan was prepared to shift the college from its location in the congested downtown area (where no expansion was possible) to a new site adjoining the University of Karachi. The project was carried out with the assistance of the World Bank which provided Rs.118 millions in two phases and the College was shifted to its new 40 hectares Main Campus in 1975. On the 1st of March, 1977 the NED Government Engineering College became the NED University of Engineering and Technology. From an enrolment of 50 students in 1923, the student population, at undergraduate, graduate and Ph.D. levels, has now gone more than 12000. The Department of Biomedical Engineering is located at NED LEJ Campus for which the land and building - estimated value Rs. 350 million - was donated by (Late) Latif Ebrahim Jamal, a well-known philanthropist. The first Vice Chancellor of the University was Mr. A. M. Akhoond who was succeeded in sequential order by Prof. Dr. A. T. Khan, Prof. Dr. Jameel Ahmed Khan, Prof. Dr. M. Munir Hasan, Prof. Dr. A. Q. Qazi, Engr. Abul Kalam and Prof. Dr. M. Afzal Haque.

### **Thar Institute of Engineering, Sciences and Technology (Tiest)**

Tiest is established at Mithi, Tharparkar which is around 350 km towards East from Karachi. The main purpose of establishing this institute was to provide direct access of quality education to the deprived students of this district as well as producing qualified workforce for the future need of this rapidly developing area of the province. Tiest is currently established in a temporary building which will eventually be shifted to its main campus which is going to be established at a land of around 300 acres on the main road leading to Islamkot and is almost in the mid of Mithi and Islamkot. It is also at a reasonable distance from the Airport. At Tiest currently, Bachelor of Computer Science and Bachelor of Civil Engineering programmes are offered with 60 and 50 seats respectively. First Principal of Tiest is Prof. Dr. Muhammad Raza Mehdi, who was succeeded by Prof. Dr. Nasir Uddin Shaikh.

## **Administration & Academic Support**

The administration of NED University is overseen by Dr. S. H. Lodi, who serves as the Vice-Chancellor. Dr. Lodi holds a B.E. in Civil Engineering from NED UET, an M.S. from Oregon State University, USA, and a Ph.D. from Heriot-Watt University, UK. Assisting him is Prof. Dr. Muhammad Tufail, the Pro Vice-Chancellor, with qualifications including a B.E. in Mechanical Engineering from NED UET, an M.Sc. from Nottingham University, UK, and a Ph.D. from Nottingham University, UK, alongside professional certifications like C.Eng and FIMechE.

The university's faculties are led by dedicated deans, including Prof. Dr. Asad-Ur-Rehman Khan for Civil and Petroleum Engineering, Prof. Dr. Syed Amir Iqbal for Mechanical and Manufacturing Engineering, Prof. Dr. Saad Ahmed Qazi for Electrical and Computer Engineering, and Prof. Dr. Syed Amir Iqbal (acting) for Chemical and Process Engineering. Additionally, Prof. Dr. Noman Ahmed serves as the Dean for Architecture and Sciences, while

Prof. Dr. Nasir Uddin Shaikh leads as the Principal of the Thar Institute of Engineering, Sciences, and Technology (TIEST).

Each administrator brings a wealth of academic and professional experience to their respective roles, ensuring the effective management and advancement of NED University's academic programs and research endeavors. Their leadership contributes to the university's commitment to excellence in education and innovation in engineering and related fields.

The administrative and academic support structure at NED University is led by a diverse team of professionals with expertise in various fields. Mr. Ghazanfar Hussain, serving as the Acting Registrar and Director of QEC, brings his qualifications in Physical Chemistry to his role, with ongoing doctoral studies at the University of Karachi. Dr. Muhammad Wasif, the Additional Registrar, holds a Ph.D. from Canada and specializes in Mechanical Engineering. Engr. Rubina Naz, the Director of Works & Services and Provost, holds degrees in Civil Engineering, Human Resource Management, and Public Administration, while Engr. S. Wasi Uddin, also in a leadership role, brings expertise in Civil and Environmental Engineering.

The administrative team further includes Mr. Irfan Ali, Deputy Registrar (Academic), and Acting Controller Student Affairs, holding a degree in Economics, alongside Dr. Ali Hasan Mahmood, Deputy Registrar (Security & General) / Coordination Director Procurement, with a Ph.D. in Textile Engineering from the University of Manchester, UK. Mr. Makhdoom Khalid Hashmi, Deputy Registrar (Security & General) / Coordination Director Procurement, and Mr. Abdul Wahab, Director of Procurement, contribute their expertise in Economics and Finance respectively to the university's operations.

In academic support roles, Mr. Safi Ahmed Zakai, Acting Controller of Examinations, and Dr. Muhammad Amir Qureshi, Acting Director Industrial Liaison, bring backgrounds in Electrical Engineering and Textile Engineering, respectively. Syed Rafiq ul Hoda, Additional Controller of Examinations, and Acting Director of Information Technology Department, holds qualifications in Mathematics, Computer Science, and Information Technology. Dr. Muhammad Asad Arfeen, Director of Information Technology Department (Acting), specializes in Computer and Information Systems Engineering.

Other key positions include Mr. Muhammad Sajeeruddin, Director of Finance, and Acting Director General of NED Academy, with expertise in accounts and finance. Prof. Dr. Bilal Zahid, Resident Auditor (Acting), and Acting Director of Office of Research, Innovation & Commercialization (ORIC), brings his background in Textile Engineering and Management to these roles. Engr. Ashfaq Ahmed Khan, Director (Planning & Projects) (Acting), and Dr. Mariam Alam, Principal Medical Officer, contribute to the university's planning, projects, and medical services.

Ms. Huma Sardar, the Acting Librarian, oversees the university's library services, bringing expertise in Microbiology and Library and Information Science. Engr. Danish Ur Rehman Khan, Technical Assistant to the Vice Chancellor, supports the Vice Chancellor's office with his

background in Computer Systems and Electrical Engineering. Together, this dedicated team ensures the smooth functioning and growth of NED University.

## **THE FACULTIES**

The faculties at NED University encompass a wide range of academic disciplines, each with its own teaching departments. Under the Faculty of Civil and Petroleum Engineering, departments include Civil Engineering, which also oversees the Bachelor of Engineering program in Civil with a Specialization in Construction Engineering, Urban and Infrastructure Engineering, Petroleum Engineering, Earthquake Engineering, and Environmental Engineering. In the Faculty of Chemical & Process Engineering, departments include Chemical Engineering, Polymer & Petrochemical Engineering, Materials Engineering, Metallurgical Engineering, and Food Engineering.

The Faculty of Architecture and Sciences (ASC) comprises departments such as Architecture and Planning, which also administers the Bachelor of Science program in Development Studies, Economics and Management Sciences offering programs in Economics & Finance and Management Sciences, Mathematics which offers a Bachelor of Science in Computational Finance, Physics, Chemistry offering a program in Industrial Chemistry, English Linguistics & Allied Studies, and Essential Studies.

Under the Faculty of Mechanical & Manufacturing Engineering, departments include Mechanical Engineering, Textile Engineering, which also administers the Bachelor of Science program in Textile Sciences, Industrial & Manufacturing Engineering, and Automotive & Marine Engineering, which administers the Bachelor of Engineering program in Automotive.

The Faculty of Electrical & Computer Engineering encompasses departments such as Electrical Engineering, Computer & Information Systems Engineering, which administers the Bachelor of Engineering program in Computer Systems, Electronic Engineering, Telecommunications Engineering, Biomedical Engineering, Computer Science and Information Technology, offering a Bachelor of Science in Computer Science and all allied Specializations, and Software Engineering.

Lastly, the Thar Institute of Engineering, Sciences, and Technology (TIEST) hosts departments including Computer Science & Information Technology, which administers the Bachelor of Science program in Computer Science, and Civil Engineering.

These faculties and departments collectively offer a comprehensive range of undergraduate programs, providing students with diverse opportunities for academic and professional growth in various engineering, sciences, and technology disciplines.

## **Department of Civil Engineering**

For details about the department of Civil Engineering and it's faculty please visit their website  
“<https://ced.neduet.edu.pk>”