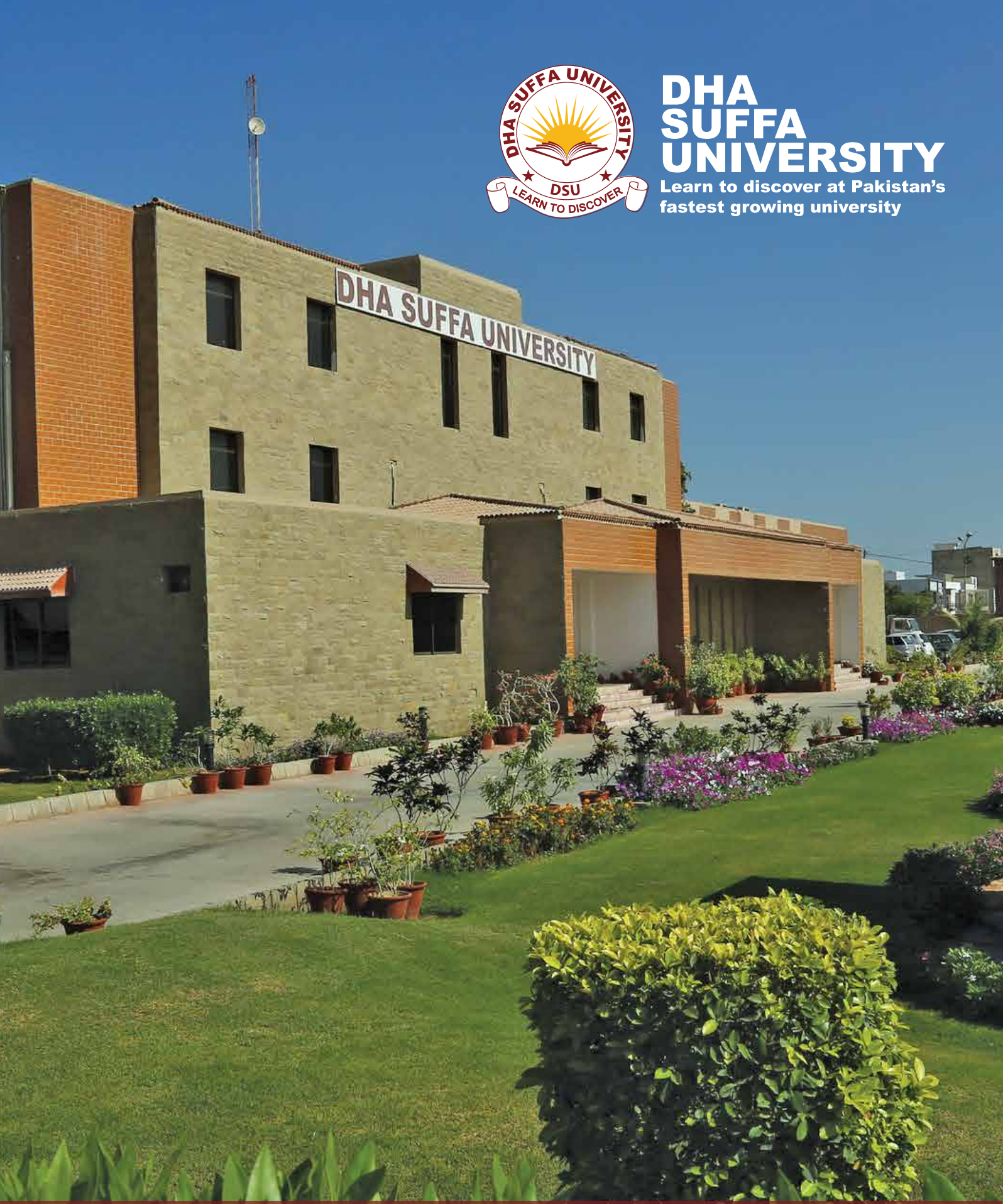
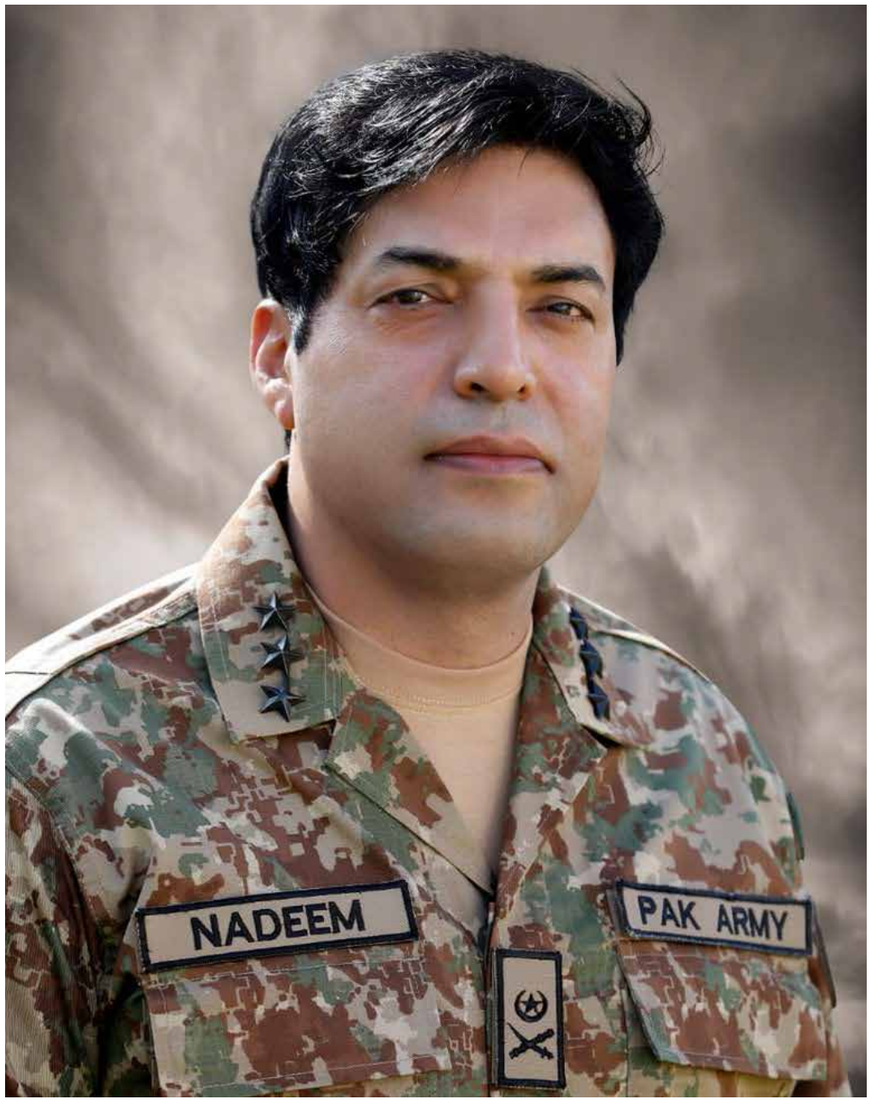


DHA SUFFA UNIVERSITY

Learn to discover at Pakistan's fastest growing university

PROSPECTUS
2020-2021

CHANCELLOR OF THE UNIVERSITY



Lt Gen Nadeem Ahmed Anjum, HI (M)
Commander 5 Corps
President Executive Board, DHA Karachi

DHA SUFFA FOUNDATION MEMBERS

Administrator DHA Karachi

Vice Chancellor DHA Suffa University

Registrar DHA Suffa University

Secretary DHA Karachi

Director Finance DHA Karachi

DHA MEMBERS OF DSU BOARD OF GOVERNERS

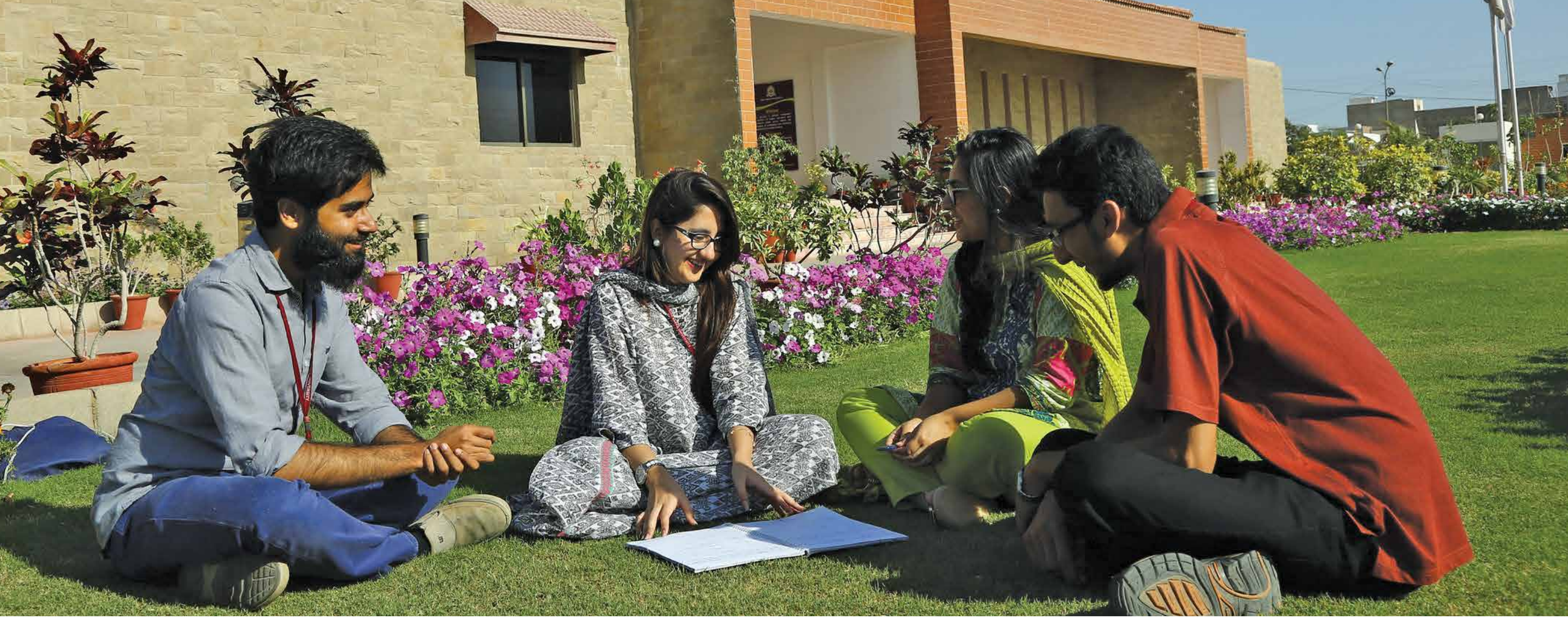
Administrator DHA Karachi

Secretary DHA Karachi

Director Pers & Adm DHA Karachi

Director Education DHA Karachi

Director Finance DHA Karachi



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CAMPUS LOCATION

DHA SUFFA UNIVERSITY A PREMIER INSTITUTION

DHA Karachi has always given due emphasis to the uplift of education and continues to take active measures towards ensuring that quality education is made accessible to the Pakistani youth. In the year 2002, it became the first DHA in Pakistan to obtain the Charter for establishing a University.

The 'DHA Suffa Foundation', under the patronage of DHA Karachi, aims to strive for the promotion and uplift of higher education and to act as a catalyst in technology advancement. It plans to establish other educational institutions including schools, colleges and computer learning centers to foster an environment of academic growth, entrepreneurship and professional development. This foundation has been created with a vision to expand and diversify the country's knowledge base and to promote cutting-edge research in various sectors for the nation's economic uplift.

DHA Suffa University (DSU) imparts quality education in one of the upscale housing societies of Pakistan's largest cosmopolitan city, Karachi. The purpose-built campus of DHA Suffa University is located on Khayaban-e-Tufail, a two-minute drive from main Khayaban-e-Ittehad. The campus, sprawling over 4 acres of land, with its imposing building and lush green lawns, serves as a landmark in the area. Nestled in the secure and serene environment of DHA Karachi, with major commercial banks, parks, medical centers, restaurants, sports arenas and mosques in close vicinity, the University is conveniently accessible by public transport.

WELCOME NOTE FROM **THE VICE CHANCELLOR**

In the last five decades or so the world has witnessed so much exponential growth in scientific and technological fields which it had perhaps never seen in the previous several centuries. Phenomenal increase in scientific inventions, explorations, researches, innovations and technological advancements are all mind boggling and have left no choice for any country but to keep pace with them if they have to survive in the comity of nations with peace & dignity.

Those countries which lack in acquisition of modern knowledge particularly the technical & scientific knowledge would soon be in a disadvantageous position. When we look at the developed nations we visualize that they have progressed mainly because their economies were boosted by innovations which is carried out at the universities. Knowledge economy is a buzz word today which is in fact composed of new knowledge and its ramifications that is also developed at the universities.

Universities are expected worldwide to provide solutions for problems of the communities and industries and produce leaders. The institutions of higher learning have greater responsibilities to secure future of the nations, provide tools to accelerate engines of growth, create competitiveness and lead towards prosperity. These are the challenges facing our country today which should be taken as opportunities by our students for learning and serving. I am therefore, delighted to welcome the prospective students to DHA Suffa University (DSU) which is a modern center of higher learning for engineering, science and management programs in a conducive academic environment enabling them to nurture their talent and strengths.

Our focus is to raise quality of output, undertake research, steer the university into an arena of academic excellence, foster a vibrant, successful and interactive research community that generates ideas and discoveries, create new fields of knowledge and promote impact-driven research. Stress is laid on pursuit of innovative exploration, translate the ideas into knowledge economy and boost competitiveness and wellbeing for the country. Mentorship of our accomplished faculty is available alongside labs with state-of-the-art equipment. Moreover, we are in the process of setting up in-campus facilities for incubation and entrepreneurship and strengthening market-driven skill sets.

Currently a blend of selected degree programs is on offer, duly accredited by the regulatory bodies and demand-driven in the job market i.e. Mechanical Engineering, Electrical Engineering, Computer Science and Business Management. Shortly, we will add few more programs to cope with the burgeoning demand for new technologies/programs. Besides, we have on the anvil strengthening of our postgraduate program offering Ph. D. and Masters in selected technologies. We have future expansion plans to develop our DHA City Campus (DHA Phase-IX on Super Highway) to meet the upcoming demand for more technologies and new programs. It is hoped that soon you will become a part of DSU community of graduates and alumni network globally.

Prof. Dr. Muhammad Afzal Haque
Vice Chancellor
PhD (Mechanical Engineering/Nuclear Engineering), University of Manchester, UK

RECOGNITION AND APPROVALS BY THE REGULATORY BODIES

DHA Suffa University was recognized as a private sector degree awarding institution by the Higher Education Commission of Pakistan (HEC) in the year 2012. In the annual ranking process of HEC for the year 2015, DHA Suffa University achieved the impressive ranking of 30 in the general category of public and private sector universities of Pakistan.

The BE (Mechanical), BE (Electrical) and BE Civil Engineering programs of DHA Suffa University have been accredited by the Pakistan Engineering Council (PEC). The BS (Computer Science) and BS (Software Engineering) programs conforms to the standards of National Computing Education Accreditation Council (NCEAC). The BBA and MBA programs conform to the standards of National Business Education Accreditation Council (NBEAC). The University has been inspected and evaluated by the Government of Sindh's Charter Inspection and Evaluation Committee (CIEC) twice in the last four years. On both the occasions, the CIEC was pleased to see the rapid growth of the university and the high standards of education being maintained.

HEC NOC/Recognition Letter, July 2012

DHA SUFFA UNIVERSITY AT A GLANCE

DHA Suffa University aspires to be ranked amongst the nation's top educational institutions. The University opened its doors in Fall 2012 to the youth of the country, with a vision to produce world class engineers, computer scientists, entrepreneurs and business leaders. DSU offers undergradaute, graduate and doctoral programs in Engineering, Computer Science, Management Sciences and newly launched program BS in Software Engineering, BE in Civil Engineering, BS in International Relations and BS in English. Over the past three years, DSU has undergone overwhelming changes to build effective systems. From infrastructure development to technology upgrades, curriculum revamp to formulation of pedagogy, addition of foreign qualified faculty to introduction of new programs, DSU is systematically taking giant leaps towards achieving its vision of being a premier educational institution.

HISTORY

DHA Suffa University was granted a Charter by the Sindh Government in the year 2002. The Charter is not discipline specific. It gives freedom to launch programs in any discipline. The University derives its name from the rectangular platform in "Masjid-e-Nabwi", where companions of the Prophet (PBUH) used to spend most of their time, day and night in the quest of knowledge. The University intends to generate the same zeal and thirst for knowledge among its students and faculty.

The construction of the present campus on 4 acres of land in DHA Phase VII (Ext) started in the year 2004 and was completed in the year 2007. The capacity of this campus is 2000 students. The University is setting up its second campus, spreading over 30 acres of land in DHA City, Karachi.

The Master Plan of the new campus has been developed by M/S Osmani & Company (Pvt). Ltd, one of the leading town planners and real estate developers in the country. The new campus will be fully residential for the faculty, staff and students. It will have the capacity to accommodate 5000 students.

SUCCESS STARTS AT **DHA SUFFA UNIVERSITY**

STUDENT SOCIETIES

The Student Societies Coordination Committee at DHA Suffa University aligns student activities with the University's core values of faith, character, learning, discovery and diversity. Student Societies contribute to the social integration of students and provide them with avenues and opportunities to learn and acquire important skills and experiences that are essential for success in their careers.

Our student societies focus on developing both co-curricular and extra-curricular skills. Student societies at DSU are divided into two clusters that are as follows:

- **Professional/Technical Societies and Clubs** including ACM Society, ASME Section, Entrepreneur Society, IEEE Student Branch, IMechE Chapter, Management Society (Finance Club, HRM Club, Marketing Club and MIS club), Mathematics Society and Leadership Society.

- **Social/Cultural Societies and Clubs** including Debating and Public Speaking Society, Character Building Society, Literary Society, Sports Scoiety, Women Empowerment Society, Entertainment and Excursion Society (Adventure Club, Drama and Music Club, Photography and Painting Club), Community Service and Conservation Society.

Student Societies at DSU have not only conducted various intra and inter-university events but have also proudly secured positions at national and international competitions.

THE DSU PHILOSOPHY

The educational philosophy of DSU is three tiered: inculcating relevant knowledge in students, helping them with their personal development and giving them a real professional life experience. This philosophy makes the DSU experience "a reward for life". DSU's online admissions system, modern curricula, unique teaching methodologies, continuous evaluation, online examination system and an environment that is conducive to learning make it a progressive and sought after institution.

DSU believes that no student should be deprived of education on the basis of his/her financial status. It, therefore, practices a need-blind policy for admissions, which means the sole admission criterion for all students is merit.

STUDY WITH OUR ACCOMPLISHED FACULTY

DSU boasts of a highly accomplished full-time faculty which is actively engaged in teaching as well as research. Our faculty members have a vast experience of working for some of the most prestigious institutions that are locally and globally recognized in academia, research and industry. Their interests include writing research papers, developing case studies and providing consultancy services to public and private sector organizations. They believe in creation of knowledge through research and innovation.

VIBRANT STUDENT COMMUNITY

DSU's students hail from widely diverse backgrounds and they pursue a variety of interests and passions during their stay at the University. Our students take keen interest in various activities ranging from Model United Nations, Sports, Naat Competitions, Math Olympiads and Programming Competitions, both at home and overseas.

DHA Suffa University's New Campus Under Construction at DHA City, Karachi

VISION

To become a globally recognized institution of higher education and research, which would extend the frontiers of knowledge and contribute significantly in nation building.

MISSION

To achieve high standards in teaching, learning and research for becoming a world renowned academic institution.

EQUAL OPPORTUNITY POLICY

DHA Suffa University is an equal opportunity institution with no discrimination on the basis of status, gender, language, religion, region, color, caste or creed. Merit is the sole criteria for admission, employment, academic and career progression. DSU encourages and facilitates students from rural areas, financially constrained families and foreign countries to study on open merit.

CORE VALUES

FAITH

Faith, in general, means confidence or trust in a person or entity. However, for DHA Suffa University, faith specifically means confidence or trust in Almighty Allah, the creator of the universe. Faith in the creator is the foundation of all good human values. It establishes the vital link between the creator and the creation. All faiths promote peace and love. DHA Suffa University also upholds the view that faith and reason are not mutually exclusive. True faith must exhibit itself through action. However, we must not comment on another person's faith under any situation.

CHARACTER

Character means knowing the difference between right and wrong and having the courage to do the right thing. The University lays great emphasis on character building. DSU firmly believes that character is the accumulation of thoughts, values, words and actions. It is established by long-term conscientious adherence to moral values. Efforts by parents, teachers and others to instill these values are important, but ultimately, Character is both formed and revealed by how one deals with everyday situations as well as extraordinary pressures and temptations.

LEARNING

DSU is a university where learning and acquiring knowledge is the core business. During the process of learning, human faculties of curiosity, understanding and communication are fully activated. At DSU, we uphold the view that learning is a layered and ongoing process.

DIVERSITY

DHA Suffa University promotes diversity and opens its doors to all persons regardless of their gender, religion, social status, color, caste and creed. DSU is committed to recognizing and appreciating the variety of characteristics that make individuals unique. It promotes and celebrates individual and collective achievements.

DISCOVERY

The spirit of curiosity forces the human mind to find reasons for why and how things happen in the natural world. This leads to an effort to discover or research for finding answers to questions that arise from observation of the natural world. Discovery or research is only possible after some learning has taken place. Discovery may need quantitative and qualitative analytical skills which are developed in students as part of the learning process at DSU.

STATUTORY BODIES

BOARD OF GOVERNORS

The general supervision and control of the affairs of the University rests with the Board of Governors, the composition of which is as follows:

- Commander 5 Corps / PEB DHA who is Chancellor of the University and Chairman of the Board
- A Judge of the Sindh High Court, nominated by the Chief Justice
- The Secretary Education, Government of Sindh
- The Chairman, Higher Education Commission
- The Administrator, Defence Housing Authority, Karachi
- The Vice Chancellor, DSU
- One Vice Chancellor of a university nominated by the Chancellor
- Three nominees of the Defence Housing Authority, Karachi
- Two eminent educationists approved by the Chairman
- President of the Karachi Chamber of Commerce and Industry
- The Registrar who acts as the Secretary of the Board

ACADEMIC COUNCIL

The Academic Council is the highest academic body of the University, which oversees proper standards of instruction, research, publications and examinations. It regulates the academic activities of the University and comprises of the following members:

- The Vice Chancellor who is the Chairperson of the Council
- All the Deans
- All the Heads of the Academic Departments
- All Professors and Associate Professors of the University
- One nominee of the Department of Education, Sindh
- One nominee of the Defence Housing Authority, Karachi
- Director Education of the Defence Housing Authority, Karachi
- Two eminent persons, one each from arts and sciences
- The Advisor (Academics) of the Higher Education Commission of Pakistan
- One nominee of Pakistan Engineering Council (PEC)
- The Director QEC
- The Registrar acts as the Secretary of the Council

DEPARTMENT OF MECHANICAL ENGINEERING

MISSION

To provide students with engineering knowledge and skills by offering undergraduate and graduate degree programs of high international standard in a conducive environment that promotes active learning and research.

Faculty

The faculty of mechanical engineering boasts of an accomplished and highly qualified pool of scholars, researchers and practical engineers. The faculty brings together a world of experience from Europe, North America, Middle and South East Asia enabling the latest knowledge and expertise to be available to students of the Mechanical Engineering Department at DHA Suffa University. Moreover, active partnerships and collaborations of our faculty members with leading research and development institutions ensures that our students are engaged in projects that stand parallel to the cutting-edge research around the world.

ADVANCED LABORATORIES

The Mechanical Engineering Laboratories supplement the broad spectrum of theoretical Mechanical Engineering courses through practical and hands-on experience. The department has one of the best engineering laboratories in Pakistan and is continuously investing to upgrade and enhance its capabilities with the addition of state-of-the-art equipment and highly skilled laboratory staff. Students are strongly encouraged to conduct laboratory experiments and each student is mandated to work independently to understand difficult concepts more aptly through applications.

An additional feature of the Mechanical Engineering Laboratories is the use of software with high performance computers to design and corroborate advanced concepts of engineering in Fluid Dynamics, Heat Transfer, Structural Analysis, Materials Engineering, Manufacturing Technologies, CNC Processes, Optimization of Processes, Control Systems, Vibrations and Robotics.

The Mechanical Engineering Department is equipped with the following laboratories and workshop facilities:

MECHANICAL ENGINEERING LABS

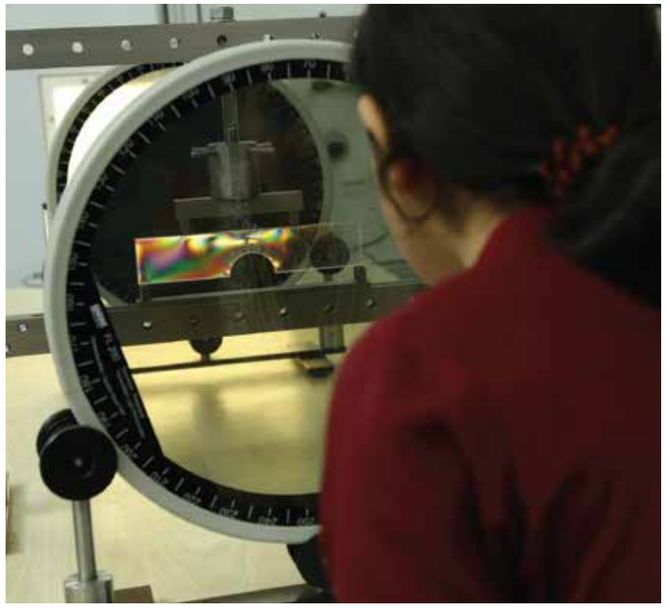
Computer Aided Engineering Center
Computer Integrated Manufacturing Center
Dynamics and Vibrations Lab
Engineering Drawing Hall
Engineering Workshop-I (Machine Shop)
Engineering Workshop-II (Bench-Fitting Shop)
Engineering Workshop-III (Welding Shop)
Fluid Mechanics Lab
Heat Transfer Lab
Internal Combustion Engines Lab
Machines Lab
Materials Lab
Manufacturing Lab
Mechanics Lab
Process Control Lab
Refrigeration and Air Conditioning Lab
Thermodynamics Lab

ALLIED LABS

Applied Chemistry Lab
Applied Physics Lab
Computing Lab
Programming Lab

ACCREDITATIONS

The Mechanical Engineering programs at DHA Suffa University are approved by the Higher Education Commission (HEC) and the BE (Mechanical) program is fully-accredited by the Pakistan Engineering Council (PEC). The Department has successfully implemented Outcome Based Education (OBE) system across all semesters.



DSU's FACILITIES OFFER LONG TERM BENEFITS

PLACEMENTS AND INDUSTRIAL LIAISON

DHA Suffa University takes pride in providing the best and most ideal placement and internship opportunities to its students through a dedicated network of departmental Industrial Liaison Officers (ILOs) working closely in cooperation with Career Services and Corporate Relations (CS&CR) Directorate at DSU. The CS&CR Directorate works with dedication and utmost professionalism to ensure the students are placed in prestigious companies of the country. Industrial visits are arranged every semester starting from the third year of BE (Mechanical) program with the objective to acquaint students with industrial practices. The visits provide support to the curriculum requirements of the BE (Mechanical) degree program.

PROFESSIONAL GROWTH

DHA Suffa University places strong emphasis on the professional growth of its students through a variety of curricular and co-curricular activities under the banner of student chapters of professional organizations. These include.

1. **American Society of Mechanical Engineers (ASME)**
2. **Institution of Mechanical Engineers (IMechE)**
3. **The American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE)**

In addition to these, DHA Suffa University has university-wide student societies that encourage students to participate proactively to develop and nurture soft-skills necessary for the modern-day work environments.

INTERNATIONAL COMPETITIONS

Despite being in infancy stages, the ME Department, in strong congruence to the University's vision, has established professional centers for participation in international automotive and aerospace student-level competitions, namely:

1. **Formula Student (Global)**
2. **Shell Eco-marathon Asia**
3. **Design, Build and Fly Competition, USA**
4. **IMechE UAS Challenge, UK**

DEPARTMENT OF ELECTRICAL ENGINEERING

MISSION

The Department of Electrical Engineering (EE) at DSU has a mission to produce graduates who are mindful of societal issues and can assume diversified engineering roles in national and global organizations. We want our graduating students to become highly sought after by industries and business organizations and to undertake postgraduate research work that can contribute significantly to nation building.

At DSU's Electrical Engineering department, we believe in the holistic development of a student as an engineer. For this we have transformed our entire academic portfolio to an Outcome Based Education System (OBE) system. We focus on the overall development of students as Engineering Professionals and encourage them to participate in co-curricular and extra–curricular academic activities. Our students are rigorously groomed to deliver innovative and creative engineering solutions to the current societal problems. The Following are Program Educational Outcomes (PEOs) that we expect to see in our graduates after they have stepped into professional life:

1. Apply electrical engineering knowledge for analyzing complex industrial problems and propose technical solutions for the betterment of society.
2. Have the ability to perform in a multidisciplinary and challenging work environment, exhibiting effective communication skills, both individually and as a team member.
3. Be able to pursue research nationally as well as globally to enhance professional qualification and knowledge.

FACULTY

DSU's Electrical Engineering Department boasts of highly qualified faculty members who are actively engaged in academic and research activities. The majority of EE faculty members at DSU have earned degrees from reputable foreign universities and have vast industrial work experience as well as research expertise in their respective professional fields. They have previously worked at the most prestigious national as well as international institutions and are up to date with latest concepts and trends in the field of Electrical Engineering. Their worthy research and teaching experience helps our students to excel in academics, acquire practical knowledge and hone their research capabilities.

STATE-OF-THE-ART LABORATORIES

The Electrical Engineering Laboratories give students hands-on experience of Embedded Systems, Data Acquisition, Feedback Control, Communication Systems and Electrical Power Systems. The labs are equipped with advanced test and measurement equipment as well as computing platforms on which students are made to appreciate the real essence of Electrical Engineering design.

Our laboratories include:

- Computing Lab
- Programming Lab
- Circuits and Electronics Lab
- Digital Systems Lab
- Electrical Machines Lab
- Power Electronics Lab
- Telecom & Signal Processing Lab
- Electrical Power System Labs
- Process Control Lab
- Project Lab
- Electrical Workshop

ACQUIRE APPROPRIATE SKILLS FOR SERVING THE INDUSTRY

ACCREDITATION

Our BE (Electrical) program is recognized by HEC and approved by PEC. The University and the Department believe in working together with HEC and PEC at all levels to improve the quality of education in the country.

CAREERS OUR GRADUATES CAN SEEK

DSU's alumni are employed in various renowned national and international organizations. The Electrical Engineering program offers its students three specialization streams: Electrical Power Systems, Telecommunications and Electronics. We enable our graduates to choose from a variety of fields in their professional careers. Graduates can become members of design or support engineering teams at industrial and business organizations, locally as well as globally. The opportunities to excel in higher education, research and consultancy can also be pursued.

INDUSTRIAL LIAISON

Our department is rigorously taking steps to establish linkages with the industry. We believe that our students should fulfill the needs of employers, industries and the society at large. Recently, students have completed internships at major engineering industries in Karachi, including PIA and K-Electric. Field trips, participation in competitions organized by the industry and guest speaker sessions by experts from various companies are some of the ways through which we are extending and strengthening our collaboration with potential employers.

DEPARTMENT OF **COMPUTER SCIENCE**

VISION

The Computer Science Department aims to produce outstanding computer specialists to meet the requirements of the job market and add value to the field of Information Technology.

INTRODUCTION

The Department of Computer Science offers programs that produce well-versed computer specialists to meet expectations of the market. Our curriculum is on par with the best in the world. It gives our students opportunities to adapt themselves to emerging technologies and innovative ideas. The department is keen to prepare its students to meet the needs of global as well as Pakistani companies; therefore, our pedagogy includes extensive laboratory work, independent projects, field work, task-based teaching and extensive research projects.

FACULTY

The Department has outstanding faculty with immense experience of teaching and research in leading universities. A majority of them exhibit industrial experience. The faculty is keenly engaged in developing solutions for the contemporary problems using high-tech concepts. Such projects have great potential for local as well as overseas funding and grants. Our faculty provides guidance to conduct research in many areas including Artificial Intelligence, Bio-Informatics, Computational Genetics, Computational Linguistics, Networking, Wireless Networking, Databases, Distributed and Parallel Computing, Information Security, Multimedia and Game Development, Computer Graphics and Visualization, and Software Engineering.

LABORATORIES

The laboratories in the Department of Computer Science at DSU provide students with hands-on experience in analysis, design, coding and testing activities for computational problems. Computing tools and devices are powered by a state-of-the-art data center to assist the development and analysis of computing intensive applications. The laboratories provide opportunities for students to explore and learn core computing practices and prepare them to tackle real-world problems. The Department has established the following labs to cater to the needs of students and researchers:

- Advanced Computing Lab
- Systems Lab
- DSU Media Lab
- CUDA Research Lab

COMPUTER GRAPHICS AND VISUALIZATION

The Computer Graphics and Visualization (CGV) research group is the first and only research group in Pakistan that is working in the area of Advanced Computer Graphics and Visualization. Ever since its inception, the CGV research group has published several research articles at international venues and impact factor journals. It has developed close collaborations with research groups at several international universities, including University of Glasgow in UK, King Abdul Aziz University in Jeddah, Saudia Arabia, Dalian Maritime University in Dalian, PR China, and Nanyang Technological University, Singapore. The research center has won hardware grant from NVIDIA® through the NVIDIA CUDA® Teaching Center award twice. Students get the chance to work under the guidance of researchers in their final year projects. Specialized MS and PhD courses are also offered to ensure that students are able to improve their understanding of Computer Graphics fundamentals as well as advanced concepts.

SUFFA INNOVATION LABS (SI LABS)

Founded in 2013, Suffa Innovation Labs is the in-house technology incubator where students develop innovative, intelligent, and interactive products. Students are provided a collaborative environment where they acquire hands-on experience on state-of-the-art software development tools and techniques. SI Labs offers two types of programs: Internship Program and Mentorship Program. The Internship Program is offered during Summer Semester breaks where students are selected after a rigorous screening test and interview. During the internship, students experience a working environment of a typical software development company and work on designing efficient solutions of various real-world problems. Our Mentorship Program spans over 6 months to 1 year. In this program, students work on start-up ideas under the mentorship of seasoned faculty. These start-up projects are evaluated by a panel of industry mentors and experienced technology entrepreneurs, who give valuable insights so these start-up ideas may be launched as viable products.

Follow us on:
/csatdsu @csatdsu

SOFTWARE ENGINEERING RESEARCH GROUP (SERG)

Software Engineering Research Group (SERG) aims to work in the area of Software Engineering.This group aims to provide research solutions to the problems faced by Pakistan's software development industry and help them to adopt cost-effective tools and techniques by providing training and consultancy services. This research group will work in close collaboration with bodies like Namcook Analytics Inc. USA, Function Point Modeler Inc. USA, Center for Systems and Software Engineering, University of Southern California, Pakistan Institute of Information & Security, etc. The tools and techniques will relate to different Software Process Improvement Standards like ISO, CISA-COBIT and CMMI, and the efficient implementation of all areas that lie under the SPI, such as Metrics and Measurement, Cost Estimation, Risk Management, Adaptation of Agile and Classical Process Models, Requirement Engineering, Project Management, Change Management, Verification & Validation areas and Secure Software Solution.

This group also intends to provide consultancy for legal matters related to Software Development for local as well as cross-border contractual issues.
The research will be conducted with close industry contacts using empirical research methods, including surveys, experiments and case studies.
The experimentation to be made under this group will guide the industry and researchers in evaluation and selection of different techniques. This research group will work in coordination with other research areas like Data Science, Machine Learning, Deep Learning, Big Data, etc. Members of this group teaching undergraduate and graduate courses in Software Engineering shall help inculcate research knowledge in students. Furthermore, the group will share its research findings through authentic books, editorials, conferences, and journal publications.

WIRELESS SENSOR NETWORKS (WSN) & INTERNET OF THINGS (IoT) RESEARCH GROUP

This group will focus on research of the latest trends in Wireless Sensor Networks (WSN) and Internet of Things (IoT). The researchers and students in this group, will be working to deal with various challenges faced by low power devices in IoT and one of the major aims would be to improve the network lifetime and energy efficiency. Innovative schemes and protocols will be developed for the MAC & Network layer. The group will be performing simulations using tools such as OPNET and Avrora and testbed implementations using Sky motes. An upcoming project is to deploy WSN at a remote location of Pakistan (Cave City, Balochistan) and collect data for habitat monitoring. Collaborations will be developed with local and international research institutes and funding agencies. Students will work in this lab for their course or FYP projects, under the guidance of a research team. The lab will also offer positions for MS and PhD students to conduct research in different areas of IoT.

INDUSTRIAL LINKAGE

The Department of Computer Science has established contacts with various software houses, IT companies and professional bodies for keeping the curriculum up-to-date and in coherence with the demand of the industry. For this purpose, the Department focuses on different training programs for students and the faculty. Furthermore, seminar sessions by senior IT entrepreneurs and professionals are held to apprise students with the latest trends in the industry. The Department is actively working with various software houses and IT companies for collaboration models that will promote exchange of knowledge and skills and will improve the research acumen of both the industry and the academia.

CAREER PROSPECTS

The Department of Computer Science has established contacts for career advancement of its students with various software houses and IT companies. Some of the careers that students can select include IT Entrepreneur, Information Technology Manager, Information Technology Consultant, Software Architect, System Analyst, Software Engineer, Web Application Developer, Database Administrator, Network Administrator and Software Quality Assurance Analyst. Research and development can also be one of the lucrative fields for them. They can also obtain MS/PhD degrees to pursue a career in higher education. Entrepreneurship is another suitable choice that students can pursue after successfully earning the degree.

DEPARTMENT OF MANAGEMENT SCIENCES

Progression through Education

VISION

We aspire to become a globally acknowledged business institution with a transformative influence on society through creation of knowledge and mentoring of future nation builders.

MISSION

- To produce technically equipped and socially responsible professionals who contribute in shaping the way organizations are operated, managed and led
- To contribute in expanding the horizons of knowledge by encouraging, initiating and supporting production and dissemination of par excellence research
- To positively influence society through contributing engagements with industry, businesses and government beyond the boundaries of campus
- To do the above with integrity, transparency and accountability in order to become a role model to be followed.

ACADEMIC ROADMAP

Core Knowledge
Cross Disciplinary Knowledge
Digital Literacy

FUNDAMENTAL KNOWLEDGE

To Know

Analytical Proficiency
Ethical Awareness
Interpersonal Skills

APPLIED KNOWLEDGE

To Analyze

Critical Thinking
Problem Solving
Decision Making

META KNOWLEDGE

To Act

BBA

MBA

FACULTY

The Department of Management Sciences has a highly qualified faculty possessing vast experience of teaching and research in leading universities. Most of them also have a rich experience of working for the industry. The faculty is actively engaged in developing solutions for present day business problems using futuristic concepts. Such projects have great potential for local and overseas funding and grants. The faculty has command over their respective subjects and bring to the classroom extensive academic knowledge supplemented by research, consultancy and industry experience.

INDUSTRY AND ACADEMIC LINKAGES THROUGH CORPORATE MENTOR NETWORK

The Department of Management Science's Corporate Mentoring Network is a career mentoring platform that connects students with qualified professionals from the industry, providing them first- hand industry insights into their chosen professions. Mentors use their valuable knowledge and experiences to guide and assist students as they make choices and decisions about their future careers.

This program aims to support potential graduates with their transition out of the University and into the workplace and intends to include industry professionals in a mutually advantageous partnership. Industrial experts with considerable experience can act as mentors to provide students with information about specific industries, current and upcoming industrial trends and the skill-set required to compete, as well as advise them regarding their career directions, job hunt and skill improvement.

FOREIGN LINKAGES

The International Education Resource Center (IERC) has been set up with the goal of promoting higher education opportunities in Germany, Turkey, Malaysia and China . It strives to provide an interface for DHA Suffa University's students to access the study abroad programs of leading international universities. At present, DHA Suffa University has MoUs with Eurasia Institute for International Education (EIIE-Berlin), Technical University of Applied Sciences (TUAS) Wildau, Germany, Senior Experten Service (SES, Bonn, Germany), AIMST University, Malaysia, Bilkent University, Turkey, Fateh Sultan Mehmet Vakif University, Turkey and Chengdu University, China. Additionally, through different initiatives such as Senior Experten Service (SES), each year, a number of foreign faculty members from top business schools are invited to teach at DHA Suffa University.

INTERNSHIP PROGRAM

As a mandatory part of the degree program, students of the BBA and MBA Program are required to complete an internship of 4-6 weeks. DHA Suffa University has a dedicated Career Services & Corporate Relations department established to facilitate students in securing internships by establishing linkages with the corporate world. The internships not only help students get a foot in the door with a potential employer but also help them accumulate new skills.

EMPLOYABILITY OF MANAGEMENT SCIENCES STUDENTS

The Department of Management Sciences caters to the job market by providing individuals who positively influence society through contributing engagements with industries, businesses and government beyond the boundaries of campus. Our graduates are placed in some of the blue-chip companies and other leading local and multinational companies such as Nestle, PSO, OGDCL, Bank AL-Habib, National Bank, Habib Bank, etc.

COMMUNITY SERVICE

The scope of Corporate Social Responsibility (CSR) at DHA Suffa University includes community involvement and philanthropy for the development of communities, initiatives involving health and safety, efforts towards environmental protection and sustainability as well as a variety of other initiatives aimed at facilitating students that belong to disadvantaged segments of society. The CSR Department strives to engage DHA Suffa University students in volunteering activities via the Community Service and Sustainability Program (CSSP) and aims to make DHA Suffa University an institution that not only focuses on academic excellence but also on character building. The CSSP is an action program that plays an important role in invoking a sense of civic responsibility in our students.

To ensure that DHA Suffa University's vision of nation building is materialized, the University has made community service a mandatory requirement for undergraduate students of the Management Sciences Department. Students enrolled in the BBA program are required to complete 60 hours of community service in order to graduate. This requirement will enable the students to become well-rounded, compassionate and empathetic individuals who are able to gain a competitive edge in the job market by having a unique selling point. Furthermore, the CSR department aims to create awareness related to various aspects of CSR by arranging a variety of free sessions for faculty, staff and students and by working on the development of policies and procedures to facilitate CSR activities at DHA Suffa University. In addition, the students of the Community Service and Conservation Society (CSCS) at DHA Suffa University work in collaboration with the CSR department to ensure that DHA Suffa University students are actively involved in organizing and participating in CSR activities and events.

MANAGEMENT SCIENCES SOCIETY

The Management Sciences Society caters to a diverse range of interests in various subject areas of business. Each student can find an area of his or her interest from a number of clubs namely Marketing Club, HR Club, Finance Club, Supply Chain Club and Economics Club, which exist under the patronage of the Management Sciences Society. The society is a well-organized body run by the students and aims to provide practical knowledge related to theory courses through competitions and events that not only give the students insights of the latest innovations in the above areas but also foster a sense of achievement and confidence in them. These events greatly help the students in their professional development. The Department of Management Sciences is keen to develop linkage with the industry; therefore, the MS Society also promotes the integration of industry through events where prominent industry figures come as judges, guest speakers and trainers to share their rich experiences.

CAPSTONE PROJECTS

Students from the Undergraduate and Postgraduate degree programs are offered capstone projects in their final semester. These projects allow students to work on real world business issues. Under this program, students are required to work as consultants to a client company under the guidance of a faculty supervisor and a corporate mentor. The students conduct rigorous field research, secondary research and do data collection and analysis, followed by findings, conclusion and recommendations that are presented to the sponsoring company. The entire project is 6 credit hours and students are expected to complete it in one semester. These capstone projects provide a practical experience to Management Sciences students and provide them with opportunities to bring creative solutions to the problems at hand.

CENTER FOR CASE DEVELOPMENT (CCD)

The Case Method of teaching has gained popularity as an effective classroom technique in recent years. The aim of CCD is to encourage case study pedagogy and develop real cases to bring actual business issues and problems to the classrooms. Under the umbrella of CCD, faculty along with a team of students work on developing indigenous case studies. In addition to this, the center has acquired membership of renowned international case repositories.

DEPARTMENT OF CIVIL ENGINEERING

MISSION

To provide a high-quality learning environment inculcating fundamental and specialized engineering knowledge, skills in critical thinking, communication, team-work and leadership for producing globally competitive engineers; and to create opportunities for students and faculty for conducting basic and applied research that contributes to society through sustainable engineering principles and practices

INTRODUCTION

The Civil Engineering Department at DHA Suffa University shall offer a Bachelor's Degree Program BE (Civil) spanning over 4 years. The program has been prepared in accordance with the Pakistan Engineering Council (PEC) guidelines. Specialization streams of Construction Management, Structures, Transportation and Water Resources shall be offered through elective courses beyond the core Civil Engineering courses.

WHY CIVIL AT DSU

Standing in the heart of DHA City Karachi (DCK), the Civil Engineering Department serves as the living lab for its students by providing them with an unmatched learning environment during the four years of their studies. The blended learning environment in the DCK is designed so that the students can experience immense professional growth throughout their 4-year journey by getting an opportunity to involve in the state-of-the-art DHA-owned projects within DCK.

Besides, indoor and outdoor sports facilities along with the furnished hostel rooms, mess and the transport facility from the City Centre to DCK adds to the rich and vibrant campus life at DCK.

FACULTY

The Civil Engineering Faculty has foreign teaching and research experience. Most of them also have rich experience of working for the industry as well as academia. The faculty is actively involved in developing solutions for the present problems using futuristic concepts. Our faculty has publications in high-impact journals such as the American Society of Civil Engineers (ASCE).

ADVANCED LABORATORIES

The Civil Engineering department has numerous laboratories established. All the labs, be it the Engineering Surveying or the Computer lab, have the latest equipment.

The Civil Engineering Department shall have the following labs available for its undergraduate students. Besides performing the lab experiments, the labs are designed such that to enable the undergraduate students to execute their Final Year Projects and producing quality outputs.
The Civil Engineering Department shall have the following labs available for its undergraduate students:

- Engineering Surveying Lab
- Computing Lab
- Engineering Mechanics Lab
- Engineering Materials Lab
- Fluid Mechanics Lab
- Soil Mechanics Lab
- Transportation Engineering lab

ACCREDITATIONS

The B.E Civil program at DHA Suffa University is accredited by the Pakistan Engineering Council (PEC). The Department has successfully implemented the Outcome Based Education (OBE) system across all semesters.

DSU FACILITIES OFFER LONG-TERM BENEFITS

ADVANTAGES OF STUDYING BE CIVIL AT DSU DCK CAMPUS

PRACTICAL EXPOSURE:
Learning through compulsory internships, involvement in on-going mega projects at DCK including ARY Laguna, Malir Expressway etc., first-hand knowledge of the market trends, guest lectures from professionals etc.
DIVERSE FACULTY:
Highly qualified individuals besides professionals working in the industry
Accommodation:
Subsidized accommodation facility for students within DCK
FACILITIES:
The campus has a dedicated library, a cafeteria and an elevator. Besides, hostel Accommodation, purpose-built sports facilities such as tennis courts, Gym, medical centre, mosque and regular transport to and from Karachi for the faculty and students.
SPACIOUS LABS AND CLASSROOMS:
The four-story dedicated Civil Engineering building has been designed to cater 1000+ students with spacious labs, classrooms, drawing halls.
LOCATION:
Calm, secure and peaceful environment of DHA City Karachi.

INDUSTRIAL LIAISON

Further, statutory bodies of DHA Suffa University include professionals from industry and technical heads of various engineering organizations established across the region. The purpose of our mutual collaboration is to work towards faculty support, student exposure to the industry, technology incubation, internships & placements, mutual work-study exercises and staff training, in an effort to bridge the gap between academia and industry.

DEPARTMENT OF BASIC SCIENCES

INTRODUCTION

The Department of BS aspires to achieve excellence in emanating quality education in the field of Science. The Department provides young engineers, scientists and entrepreneurs a strong foundation that is required to excel in their fields.

FACULTY

The faculty of Basic Sciences is a highly dynamic and growing community of scholars, active in various principal areas of research in Mathematics and Natural Sciences. Many have gained national and international prominence and strive to foster a teaching methodology that enables the development of effective theoretical foundation, nurturing a pragmatic approach in students to sharpen their skills. The Department of Basic Sciences provides instructional support in teaching various fundamental courses of Applied and Natural Sciences. The practical implementation of theoretical knowledge is achieved through well-designed and well-equipped Applied Chemistry and Applied Physics laboratories.

APPLIED PHYSICS LAB

The department has a well-equipped Applied Physics Lab with qualified technical staff. The basic facilities of this lab allow the students to acquire hands-on experience and practical realization of theoretical knowledge with the help of tools and equipment imported from renowned foreign companies. Experimental equipment for Electromagnetics, Acoustics, Mechanics and Optics are available in the Applied Physics Lab.

APPLIED CHEMISTRY LAB

In the Applied Chemistry Lab, students have the opportunity to perform experiments to observe and grasp scientific phenomena related to Applied Chemistry using basic and advanced laboratory equipment. At the same time, the department has a vision to further upgrade the Applied Chemistry Lab to the level of postgraduate research and to provide laboratory testing and research services to industries and academic sectors in the near future. To reinforce this vision, the department is working towards implementation of advanced quality management and laboratory management systems. To ensure the health and safety of students and staff, adequate measures have been taken in the Applied Chemistry Lab.

DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

INTRODUCTION

The Department of Humanities & Social Sciences at DHA Suffa University believes in developing critical thinking, communication skills and verbal reasoning to make the students effective communicators. The Department strives to make the students dynamic individuals who can play a

FACULTY

The faculty of Department of Humanities & Social Sciences is a perfect combination of experienced and qualified teachers, who have the experience of teaching at renowned national and international institutions. The Department boasts of faculty members who are active researchers in their areas of interest. The faculty of Humanities & Social Sciences contributes to teaching the compulsory and fundamental courses of Engineering, Computer Science and Management Sciences degree programs, which include courses on English Composition, Islamic Studies, Professional Ethics, Pakistan Studies, Functional English, Communication Skills and Technical Report

ENGLISH

The Department of Humanities & Social Sciences is currently offering BS English and International Relations at DHA SUFFA UNIVERSITY. The department aims to provide students with programs that offer employability skills. It has spacious air conditioned rooms equipped with the state of the art facilities to make the learning and teaching comfortable.

BS English graduates can take up many interesting careers some of them are as follows:
Publishing, speech therapy, journalism, media, teaching, advertising, translation and interpretation, computing, forensic, public relations, marketing communications.

INTERNATIONAL RELATIONS

International Relations (IR) as a course of study reflects the dynamics of the International System. The System is a complex web with multiple but mutually functioning components and is characterized by interfacing changes and continuities, which are instrumental in the dynamic nature of the discipline. IR is a broad discipline that encapsulates the multivariate aspects of man in the global contexts. It is what can be described as 'a fusion of social science disciplines', as it deals with the basic elements of the social man; the only difference is that it looks at such essentials in relational contexts beyond national borders. Our richly connected, complex world seeks professionals skilled in International Relations, an exciting field of study that presents a globally oriented perspective on issues that transcend national boundaries.

It helps to understand:

The changing character of state and non-state actors who participate in International decision-making

The origins of war and the maintenance of peace

The nature and exercise of power within the global system

Although International Relations has taken on a new significance because of our increasingly interconnected world, it is certainly not a new concept. Historically, the establishment of treaties between nations served as the earliest form of international relations.

Furthermore, the importance of media (Print, Electronics, and Social) can't be denied. This is the reason Universities have started offering BS in various areas such as International Relations. International Relations is also one of the emerging specializations which has gained popularity as a career prospect in

- Media outlets
- Intergovernmental organizations
- Government agencies
- Humanitarian organizations
- Research centers/Think tanks etc.

INTERNATIONAL EDUCATION RESOURCE CENTER

The International Education Resource Center (IERC) has been set up with the goal of promoting foreign student mobility and continually improving DHA Suffa University's international outlook. It strives to provide an interface for DSU's students to access the study abroad programs of leading international universities and educational institutions. At present, DSU has MoUs with Eurasia Institute for International Education (EIIE-Berlin), Technical University of Applied Sciences (TUAS) Wildau, Germany, Cologne Business School, Germany, AIMST University, Malaysia, Bilkent University, Turkey, Fateh Sultan Mehmet Vakif University, Turkey, Chengdu University, China and the University of Hertfordshire, UK. DHA Suffa University also has an agreement with the Senior Experten Service (SES), Bonn, Germany. The University regularly hosts senior experts who contribute to its academic growth and professional development.

MISSION

The mission of DSU's IERC is to foster academic growth and professional development through strong linkages with international academia.

OBJECTIVES

- To raise awareness of the university community about educational, research and career opportunities in Europe, Malaysia, China, Turkey, UK and USA
- To promote and enhance academic cooperation on national and international levels
- To develop and implement joint degree programs
- To promote inter-cultural harmony by equipping faculty members and students with cross-cultural competence needed for working and studying in a multi-cultural environment
- To offer opportunities for learning foreign languages on campus
- To equip students with a skill set that shall enable them to thrive in multi-cultural environments and embark on international career paths after graduation

At the IERC, we believe that only true understanding can bring cultures together and it is international education and exposure that lays a strong foundation for encouraging inter-cultural harmony. DSU's IERC, in collaboration with EIIE-Berlin, organizes summer camps every year in which students visit Europe for two weeks. They explore Europe, Germany in particular, as a destination for higher studies, experiencing the German culture and lifestyle. Activities at the summer camp include German language classes, visits to historic sites in and around Berlin city and visits to German universities as well as German industries. The IERC also organizes summer internships for students at AIMST University, Penang, Malaysia, giving them an opportunity to acquire international exposure. Moreover, DSU's IERC in collaboration with Bilkent University, Turkey, organizes semester exchange programs, whereby, DSU's students visit Ankara and study a semester at Bilkent University.

PROFESSIONAL DEVELOPMENT CENTER

In a constantly evolving workplace and knowledge economy of today, managers need to broaden their capabilities to secure and retain competitive advantage. DHA Suffa University's Professional Development Center (PDC) offers programs that are designed to enhance your management acumen, provide tools needed to drive innovation and connect you to a network of peers, specialists and mentors. Our Executive Education programs are designed to stay a step ahead of business and innovation trends, offering workshops and short courses in the areas of general management, technology, marketing and leadership, to name a few - leaving you prepared to drive growth. PDC also aims to further strengthen DSU's linkages with both academia and industry, and conducts seminars, speaker sessions and symposiums that help disseminate knowledge and provide a platform for mutual learning and intellectual discourse.

CORPORATE SOCIAL RESPONSIBILITY

DHA Suffa University established its Corporate Social Responsibility (CSR) Department in the year 2017 in line with the University's vision to contribute significantly to nation building. The scope of CSR activities at DSU include community involvement and philanthropy for the development of communities, initiatives involving health and safety, efforts towards environmental protection and sustainability, as well as a variety of further initiatives aimed at uplifting students that belong to disadvantaged segments of society.

DSU is also a member of the Talloires Network and is proud to be an engaged institution that is actively involved in community service and outreach programs. By being a part of DSU, students can work on various community service projects and contribute positively to society.

QUALITY ENHANCEMENT CELL

VISION

The Quality Enhancement Cell (QEC) is committed to ensuring quality as a norm in all the operations of DHA Suffa University.

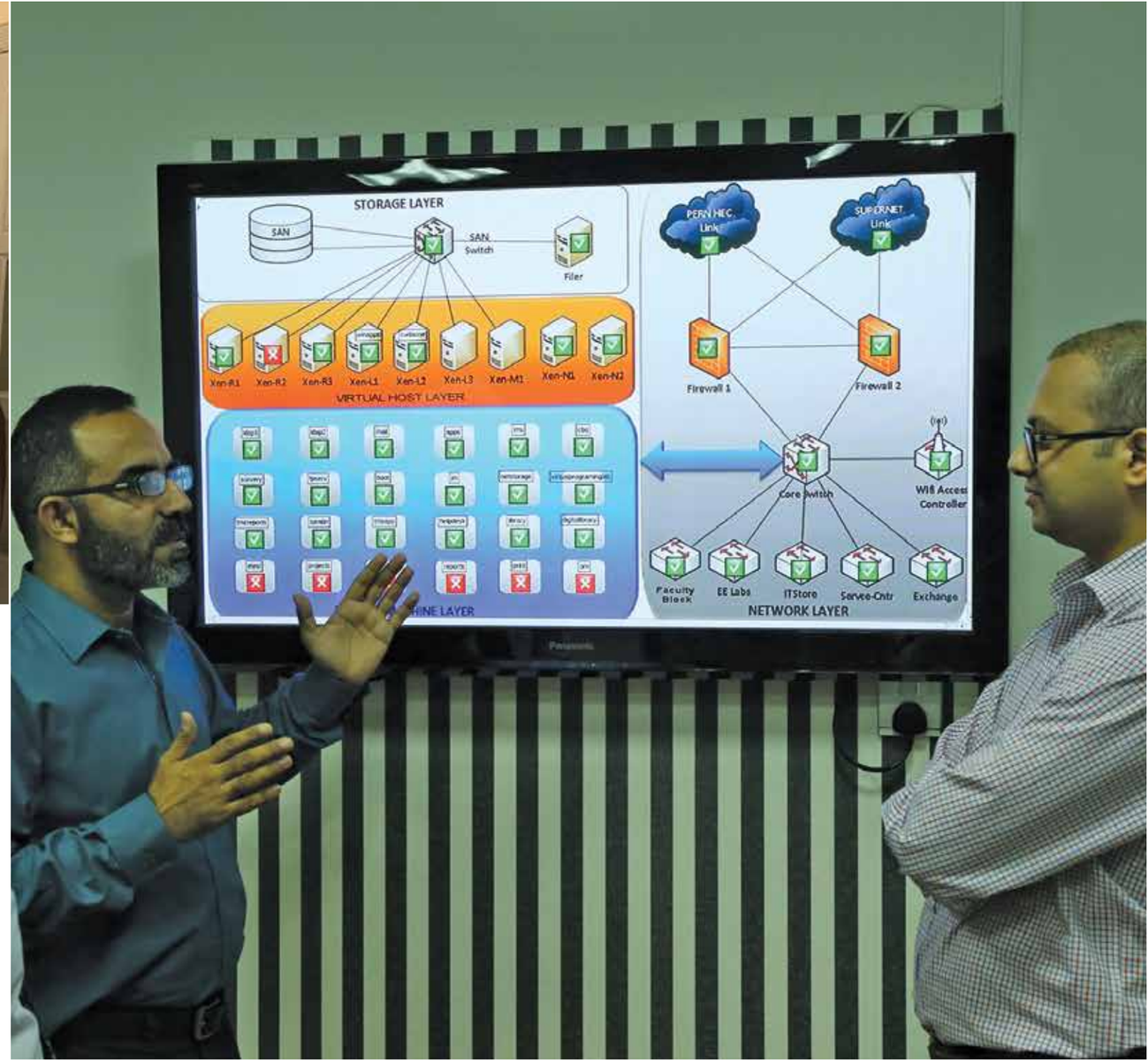
OBJECTIVES

- Establishing, improving and maintaining academic standards
- Monitoring and enhancing students' learning
- Verifying compatibility of program objectives with institutional goals
- Providing feedback for quality assurance of academic programs and support services

Being an obligation by the Higher Education Commission, the QEC at DHA Suffa University does not just implement or operationalize the HEC quality enhancement rules, it takes confident steps in making DHA Suffa University work towards excellence. Aligned with this vision, the QEC entrenches quality in all academic degree programs, develops quality assurance processes and methods of evaluation and monitors the people who are involved in such activities (faculty, students and staff).

The QEC is responsible to liaise with all the nominated assessment team members of respective degree programs and coordinates with them in order to ensure conformity to the quality standards prescribed by HEC and various prestigious national and international regulatory bodies.

The QEC of DHA Suffa University performs so meticulously that HEC has acknowledged it in the form of a formal letter of appreciation.



IT SERVICES

DHA Suffa University offers state-of-the-art IT infrastructure for its students and faculty to facilitate and augment the learning activities. The heart of IT services at DSU, is the latest cloud computing technologies based data center with high-end software, computing, storage and network infrastructure. Students and faculty can connect to the DSU portal and access resources pertinent to their needs round the clock. Students can access their course material, submit assignments and interact with their teachers using the DSU Learning Management System. Students can also track their academic progress online and even provide feedback for their courses from anywhere. The computing labs equipped with essential hardware and software resources deliver an exceptional computing experience. Campus-wide IT resources also include latest audio visual facilities in all classrooms, high speed Internet connectivity and across the campus Wi-Fi coverage.

Prof. Dr. Muhammad Afzal Haque
Vice Chancellor

PhD (Mechanical Engineering/Nuclear Engineering), University of Manchester, UK

Engr. Prof. Dr. Johar Khurshid Farooqi
Professor & Dean (Engineering and Applied Sciences)

PhD (Mechanical Engineering), University of Manchester, UK

Engr. Dr. Haider Ali
Associate Professor & HOD (Mechanical Engineering)

PhD (Mechanical Engineering), King Fahd University of Petroleum and Minerals, Saudi Arabia

Engr. Dr. Syed Muhammad Bizzat Hussain Zaidi
Associate Professor & HOD (Electrical Engineering)

PhD (Electronic Systems Engineering), Hanyang University, South Korea

Dr. Faheem Akhter
Assistant Professor & HOD (Management Sciences & Humanities and Social Sciences)

Ph.D (Public Administration, Social Sciences), University of Karachi

Prof. Dr. Ahmed Saeed Minhas
Professor & Pro-Vice Chancellor

PhD (International Relations) Quaid-e-Azam University (QAU), Islamabad

Dr. Rida Ahmed
Assistant Professor & HOD (Basic Sciences)

PhD (Chemistry), University of Karachi

Engr. Dr. Syed Fazal Abbas Baqueri
Assistant Professor & HOD (Civil)

PhD (Transportation Sciences), Hasselt University, Belgium

Dr. Muhammad Rizwan Tanweer
Assistant Professor & HOD (Computer Science)

PhD (Computer Science and Engineering), Nanyang Technological University, Singapore

Dr. Sarah Syed Kazmi
Programs Incharge BS (English) & BS (International Relations)

PhD European Studies, 2019: Area Study Centre for Europe, University of Karachi

Engr. Dr. Muhammad Nauman Qureshi
Assistant Professor

PhD (Fluid Mechanics), Joseph Fourier University, France

Dr. Huma Jamshed
Assistant Professor

PhD (Computer Science: Algorithm to Predictfuture of Internet Technologies), University of Karachi, Pakistan, 2019

Engr. Dr. Muhammad Farrukh Shahab
Assistant Professor

PhD (Computational Fluid Dynamics), Univeristy Poitiers, France

Engr. Dr. Imtiaz Hussain
Associate Professor

PhD (Vehicle Systems Dynamics & Control), University of Salford, UK

Dr. Muhammad Usama
Assistant Professor

PhD Information Technology, University Technology Petronas, Perak, Malaysia

Dr. Shama Siddiqui
Assistant Professor

PhD (Computer Science), IBA

Dr. Usman Ahmad
Assistant Professor

(PhD) from School of Economics, Finance and Banking, Universiti Utara Malaysia

Dr. Sobia Iqbal Shaikh
Assistant Professor

PhD (Human Resource Management) University of Karachi

Dr. Razi Sultan Siddqui
Assistant Professor

MS (Management Sciences), SZABIST
MBA (HRM), University of Sindh, Jamshoro
MS (Psyohology), University of Sindh

Engr. Dr. Muhammad Usama Siddiqui
Assistant Professor

PhD (MechanicalEngineering), King Fahd University of Petroleum and Minerals, Saudi Arabia

Engr. Dr. Rizwan-ul-Hasan
Assistant Professor

PhD in Computer Engineering, South Eastern Oklahoma State University, United States.

Dr. Syed Roomi Naqvi
Adjunct Faculty

PhD (Electrical Engineering), Arizona State University, USA

Mr. Khubaib Ahmed Qureshi
Assistant Professor

MS (Computer Science), SZABIST
MCS (Computer Science), SZABIST

Engr. Haris Zikrur Rehman
Assistant Professor

MS (Wireless Communication), University of Leeds, UK

Mr. Syed Hammad Ahmed
Assistant Professor
(On Study Leave)

MS (Computer Science), LUMS

Engr. Dr. Muhammad Sabih
Assistant Professor

PhD (Systems Engineering), King Fahd University of Petroleum & Minerals, Saudi Arabia

Engr. Umair Bin Mansoor
Assistant Professor

MS (Telecommunication Engineering), King Fahd University of Petroleum & Minerals, Saudi Arabia

Ms. Eram Abbasi
Assistant Professor

MS (Computer Science), SZABIST
MBA (MIS), IBA

Mr. Twaha Ahmed Minai
Assistant Professor

MPhil (Computer Science), University of Karachi

Mr. Bilal Hayat Butt
Assistant Professor

MS (Computer Science), LUMS

Engr. Asif Gulraiz
Assistant Professor

MS (Sustainable Electrical Power), Brunel University, UK

Mr. Syed Hassaan Hussain
Assistant Professor

MS (Mechatronics Engineering), Gwangju Institute of Science & Technology, South Korea

Engr. Syed Zaid Hasany
Assistant Professor

MS (Sustainable Environment & Energy System), Middle East Technical University, Turkey

Ms. Naila Shahzada
Assistant Professor

MS (Computer Science), SZABIST
MBA (Marketing), IBA

Engr. Hamza Qazi
Assistant Professor
(On Study Leave)

MSc (Advanced Manufacturing Engineering), Sheffield Hallam University, Sheffield, UK

Engr. Junaid Ahmed
Assistant Professor

ME (Electronics Engineering), Hamdard University

Mr. Kamran Ali
Assistant Professor

MPhil (English Linguistics), Hamdard University

Engr. Muhammad Owais
Assistant Professor

MSc (Power Engineering), Technical University Munich, Germany

Engr. Makhdoomzada Asadullah Siddiqui
Assistant Professor

MS (Electrical Power Engineering), KTH Royal Institute of Technology, Sweden

Engr. Zeeshan Ellahi
Assistant Professor

MSc (Advanced Manufacturing Technology & Systems Management), University of Manchester, UK

Mr. Muhammad Abu Huraira
Assistant Professor

MSc (Marketing), Brunel University, UK

Mr. Muhammad Ashhad Shahid
Assistant Professor

MS (Applied Mathematics), NED University

Faculty Profile

Faculty Profile

Mr. Muhammad Waqas
Senior Lecturer

MAS (Economics), University of Karachi

Mr. Muhammad Azmi Umer
Senior Lecturer

MS (Computer Science), PAF-KIET, Karachi

Ms. Tehseen Azhar
Senior Lecturer

MS (Management Science), SZABIST

Engr. Syed Muhammad Farooq Shibli
Senior Lecturer

MS (Software Engineering), Bahria University

Mr. Conrad Walter D'Silva
Senior Lecturer

MS (Software Engineering), Bahria University

Engr. Safa Sattar Anjum
Senior Lecturer

ME (Industrial & Manufacturing), NED University

Mr. Muhammad Faisal
Senior Lecturer

MSc (Statistics), University of Karachi

Mr. Asif Rafiq
Senior Lecturer

MSc (Information Technology), KTH Royal Institute of Technology, Sweden

Ms. Tehniat Mirza
Senior Lecturer

MS (Computer Science), PAF-KIET
MCS (Computer Science), University of Karachi
MSc (Applied Mathematics), University of Karachi

Mr. Sabah Quaiser
Senior Lecturer

MPhil (Statistics), University of Karachi

Mr. Asad Ur Rehman
Senior Lecturer

MS (Software Engineering), PAF KIET

Engr. Kashif Ahmed
Senior Lecturer (Adjunct)

Masters Degree in Construction Management, NED University

Ms. Farhat Tariq Umar
Senior Lecturer

MBA (Marketing & Finance), University of Rochester - Simon Business School, USA
MBA (Marketing & Finance), IBA

Mr. Muhammad Mustafa Raza
Senior Lecturer

MA (Political Science), University of Karachi

Mr. Moheez Ur Rahim
Senior Lecturer

MSc (Mathematics), University of Karachi

Ms. Samia Masood Awan
Senior Lecturer

M.E (CIS), NED University

Ms. Urooj Waheed
Senior Lecturer

MS (Computer Science), IBA

Engr. Salman Hameed Siddiqui
Senior Lecturer

Civil Engineering, NED University of Engineering and Technology

Engr. Syed Asad Ali
Senior Lecturer

ME (Communication Systems & Networks), Mehran University

Ms. Raazia Sosan Waseem
Senior Lecturer

MS (Computer Science), Hamdard University

Ms. Subeika Fatima Ali Rizvi
Senior Lecturer

MBA (Finance), IBA

Engr. Karamat Ullah
Senior Lecturer (Adjunct)

MS Structural Engineering, NUST

Faculty Profile

Engr. Rooh Ul Amin
Lecturer

MSc (Electrical Engineering), The University of Nottingham, UK

Engr. Ameen Uddin Ammar
Lecturer
(On Study Leave)

MS (Materials & Surface Engineering), NUST

Ms. Sadia Mehboob
Lecturer

MBA Hons (Finance), University of Sindh

Engr. Syed Sheraz Ali
Lecturer
(On Study Leave)

MS (Mechanical Engineering), NUST

Mrs. Saima Sardar Khan
Lecturer

MCom, University of Karachi

Ms. Tatheer Yawar Ali
Lecturer

MBA (Human Resource), SZABIST, Karachi

Ms. Asma Bibi
Lecturer

BS (Computer Science), Bahria University

Mr. Saqib Ghias
Lecturer

MPhil (Marketing), Iqra University

Mr. Muhammad Rahim
Lecturer

MSc (Physics), University of Karachi

Engr. Muhammad Sabeeh Farrukh
Lecturer

MEM Transportation Infrastructure Management, NEDUET

Ms. Fatima Kiran
Lecturer

PhD. in Mass Communication: Enrolled in 2020 at University of Karachi
(In progress)

Ms. Aisha Shams
Lecturer

MSc Human Resource Management (Queen Mary University, UK)

Mr. Maraj
Lecturer

MS (Applied Mathematics), NED University

Mr. Usman Khalil
Lecturer

MSc in Applied Physics (Electronics), University of Karachi

Mr. Syed Shah Sultan Mohiuddin Qadri
Lecturer
(On Study Leave)

MS (Applied Mathematics), NED University

Ms. Tahira Yawer Ali
Lecturer

MS (Business Administration), Hamdard University
MBA (Finance), University of Karachi

Mr. Syed Saad Luqman
Lecturer

MSCS (Software Engineering), Hamdard University

Ms. Erum Fatima
Lecturer

MS (Management Science), Hamdard University

Mr. Sulaman Ahmad Naz
Lecturer

BCS from University of Peshawar

Mr. M. Adil Rao
Lecturer

MS (Computer Science), Mohammad Ali Jinnah University

Ms. Sidra Ahmed
Lecturer

M.Phil leading to PhD: Department of International Relations, University of Karachi

Ms. Shafaq Sohail
Lecturer

MS (Software Engineering), NUST

Ms. Saadia Khan
Lecturer

MSC: Organizational Psychology and Human Resource, IoBM

Mr. Qazi Abdul Samad
Lecturer

MCIT, NED University

Mr. Adnan Alam Khan
Lecturer

MS Software Engineering from PAF-KIET

Ms. Sania Yousuf
Lecturer

MS Computer Science, Institute of Business Administration

Engr. Mansoor Idrees Dawson
Lecturer
ME (Meterials), NED University

Mr. Zahid Hussain
Lecturer

BS (Computer Science), Hamdard University

Engr. Shazaib Ahsan
Lecturer

MSc (Mechanical), LITP Malaysia

Engr. M. Imran
Lecturer

ME (Solid Mechanics), University of Malaya, Malaysia

Faculty Profile

Engr. Abdul Samad
Lab Engineer

ME (Industrial Electronics), NED University

Engr. Hassaan Ahmed Khan
Lab Engineer

BE (Mechanical Engineering), NED University

Engr. Nafees Ahmed
Lab Engineer

BE (Electrical), DHA Suffa University

Engr. Taha Irshad
Lab Engineer

BE (Mechanical Engineering), NED University

Engr. Farah Akram
Lab Engineer

MS (Electrical Engineering), NUST

Engr. Sidra Rahim
Lab Engineer

BE (Electrical), NED University

Ms. Ansha Zahid
Lab Instructor

BS (CS & IT), NED University

Engr. Tanweer Hussain
Lab Engineer
(On Study Leave)

BE Mechanical Engineering, QUEST

Ms. Rida Memon
Lab Instructor

BE(Computer Systems), Mehran UET

Engr. Adeel Asghar
Lab Engineer

BE (Mechanical), DHA Suffa University

Engr. Huzaifa Saleh Qureshi
Lab Engineer

B.Sc. (Mechanical Engineering), UET Taxila

Engr. Hafsa Haseeb
Lab Engineer

BE (Electronics Engineering), Dawood University of Engineering & Technology

Engr. Muhammad Bilal Khan
Lab Engineer

BE (Electronic Engineering), Hamdard University

Engr. Sara Noor
Lab Engineer
(On Study Leave)

BE (Electrical Engineering), NUST

Engr. S.M. Musab Bin Naseem
Lab Engineer

BE (Mechanical), NEDUET

Ms. Yusra Shahina
Lab Instructor

BE (Computer & Information Systems), NED University

Mr. Irfan Hussain
Lab Instructor
(On Study Leave)

BS (Electronics), University of Sindh, Pakistan

Ms. Maleeha Shah
Lab Instructor

MCS (Computer Sciences), University of Karachi

Engr. Syeda Wafa Zehra Abidi
Lab Engineer

M.E Transportation Engineering, NED University

Ms. Urooba Javed
Lab Instructor

MS (Computer Science), IBA

Engr. Muhammad Ibrahim Abbas
Lab Engineer

ME (Water Resources Engineering), NED University

Mr. Muzammil Maqsood
Lab Instructor

Bachelors in Computer Science, DHA Suffa University

Mr. Faisal Mehmood
Lab Instructor

BS Computer Science, PAF-KIET

Ms. Asma Qaiser
Lab Instructor

Bachelors in Computer Science and Information Technology, NEDUET

Ms. Sidrah Abdullah
Lab Instructor

MS (CSIT), NED UET

Faculty Profile

Engr. Ghulam Ishaque
Lab Engineer

BE (Mechanical), QUEST Pakistan

Bachelor Degree Programs

BE (MECHANICAL)

Introduction

The Mechanical Engineering Department at DHA Suffa University offers a four-year BE (Mechanical) degree program. The BE (Mechanical) curriculum is designed to prepare mechanical engineering students to comply with the continuously growing and evolving demands of both local and global industries, academia and R&D sector. Under continuous guidance and mentoring of highly qualified and experienced faculty members, the students are provided a congenial learning environment where they can develop theoretical, practical and managerial skills through exhaustive pedagogy, experiential learning as well as personal and professional grooming.

The department maintains a strong focus in ensuring one-to-one mentoring of each student. The department boasts of an impressive student-to-teacher ratio of 15:1. The learning experience of students is further enhanced with state-of-the-art laboratory facilities on which the department has invested more than 220 million rupees. These laboratory facilities are further being enhanced in line with HEC and PEC guidelines.

Program Mission

To provide students with engineering knowledge and skills to contribute towards sustainable development of the society by offering undergraduate and graduate degree programs in mechanical engineering of high international standard in a conducive environment that promotes active learning and research.

Program Educational Objectives (PEOs)

PEOs describe the expected professional achievements of our students after four years of study, we expect our graduates to:

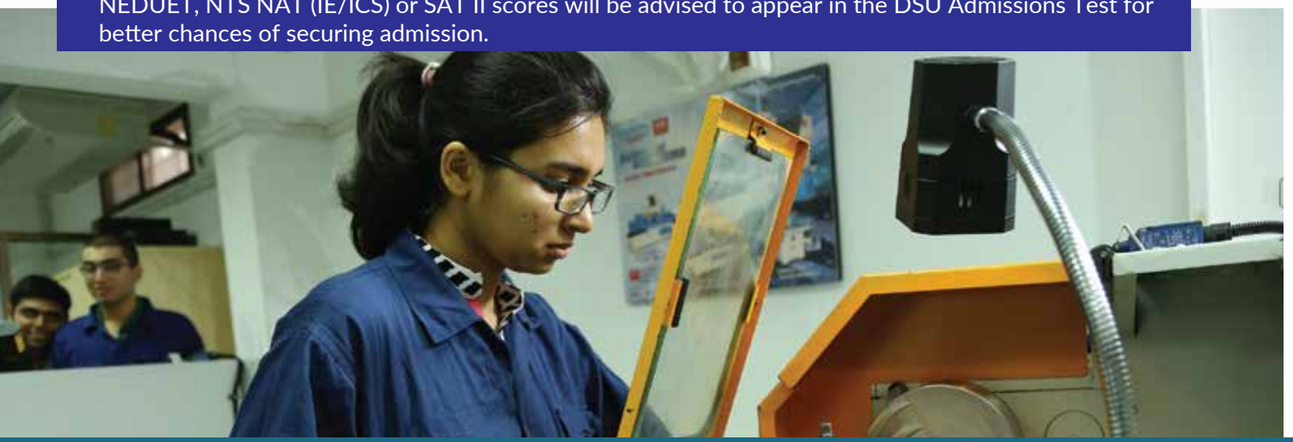
- Be effective professional engineers grounded in sound engineering knowledge and practice
- Be responsible engineers, who exercise good ethics in their professional pursuits with due consideration to impact on society
- Be active engineers who advance their knowledge and adapt to technological changes in the field of mechanical engineering

Eligibility

- Intermediate or an equivalent examination (Pre-Engineering) with at least 60% marks; Or
- Must have studied Mathematics, Physics and Chemistry at HSSC / A- level
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NEDUET (current year), NTS NAT (IE/ICS) (current year) or SAT II (within two years) if appeared. Applicants Submitting NEDUET, NTS NAT (IE/ICS) or SAT II test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET, NTS NAT (IE/ICS) or SAT II scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.



Plan of Study

Semester	Course Title	Course Code	Credit Hours: Theory	Lab
I	Calculus and Analytical Geometry	BS 1301	3	0
	Applied Physics	BS 1103	2	0
	Applied Physics Lab	BS 1103L	0	1
	English Composition	HU 1001	3	0
	Engineering Drawing and Graphics	ME 1101	1	0
	Engineering Drawing and Graphics Lab	ME 1101L	0	2
	Introduction to Computing and Programming	CS 1200	2	0
	Introduction to Computing and Programming Lab	CS 1200L	0	1
	Applied Chemistry	BS 1201	2	0
		Total		17
II	Engineering Statics	ME 1103	3	0
	Engineering Materials	ME 1201	3	0
	Engineering Materials Lab	ME1201L	0	1
	Linear Algebra and Ordinary Differential Equations	BS 2303	3	0
	Thermodynamics – I	ME 1301	3	0
	Workshop Practice	ME 1001L	0	2
	Electrical Engineering	EE 2005	2	0
	Electrical Engineering Lab	EE 2005L	0	1
		Total		18
III	Engineering Dynamics	ME 2101	3	0
	Engineering Mechanics Lab	ME 2106L	0	1
	Mechanics of Materials – I	ME 2102	3	0
	Thermodynamics – II	ME 2301	3	0
	Thermodynamics Lab	ME 2304L	0	1
	Electronics Engineering	EE 2006	2	0
	Electronics Engineering Lab	EE 2006L	0	1
	Fluid Mechanics – I	ME 2302	3	0
	Health, Safety and Environment	ME 2401	1	0
		Total		18
IV	Mechanics of Materials – II	ME 2103	3	0
	Mechanics of Materials Lab	ME 2107L	0	1
	Machine Design- I	ME 2105	2	0
	Manufacturing Processes	ME 2402	3	0
	Manufacturing Processes Lab	ME 2402L	0	1
	Fluid Mechanics – II	ME 2303	3	0
	Fluid Mechanics Lab	ME 2305L	0	1
	Probability and Statistics	BS 1402	3	0
	CAD Lab	ME 2108L	0	1
		Total		18
V	Technical Report Writing and Presentation Skills	HU 4009	3	0
	Machine Design – II	ME 3104	3	0
	Management Elective	MS XXXX	2	0
	Numerical Analysis	BS 3303	2	0
	Numerical Analysis Lab	BS 3303 L	0	1
	Heat and Mass Transfer	ME 3301	3	0
	Pakistan Studies	HU 2101	2	0
	Foreign Language	–	NC	
		Total		16
VI	Complex Variables and Transforms	BS 3301	3	0
	Mechanics of Machines	ME 3102	3	0
	ME Technical Elective – I	ME 3YZZ	2	0
	Entrepreneurship	MS 3101	1	0
	Heating, Ventilation and Air Conditioning	ME 3303	3	0
	Heat Transfer and HVAC Lab	ME 3304L	0	1
	Introduction to Finite Element Method	ME 3106	2	0
	Introduction to Finite Element Method Lab	ME 3106L	0	1
	Islamic Studies	HU 2201	2	0
		Total		18
VII	Internal Combustion Engines	ME 4302	2	0
	Engineering Economics	MS 4407	2	0
	Mechanical Vibrations	ME 4101	3	0
	Machines and Vibrations Lab	ME 4103L	0	1
	ME Technical Elective – II	ME 4YZZ	2	0
	ME Design Project – I	ME 4903L	0	3
	Measurement and Instrumentation	ME 3103	2	0
	Measurement and Instrumentation Lab	ME 3103L	0	1
		Total		16
VIII	Control Engineering	ME 4102	2	0
	Control Engineering Lab	ME 4102 L	0	1
	ME Technical Elective – III	ME 4YZZ	2	0
	ME Design Project – II	ME 4904L	0	3
	Power Plants	ME 4623	3	0
	IC Engines & Power Plants Lab	ME 4303L	0	1
	Social Sciences Elective -I	HU XXXX	2	0
	Professional and Business Ethics	HU 4702	1	0
		Total		15
		TOTAL CREDIT HOURS		136

NOTES:

1. All aspects of the laboratory components including teaching, attendance, assignments, examination and grading are treated separately from the theory components.
2. The basis of this Plan of Study is HEC Revised BE (Mechanical) Curriculum, 2012.

List of Electives

Technical Electives

Introduction to Finite Element Method
Introduction to Robotics
Gas Dynamics
Industrial Safety & Environment
Maintenance Engineering
Industrial Quality Control & Assurance
Introduction to Sustainable Energy
Energy Resources & Utilization
Renewable Energy Technologies
Fatigue & Fracture Mechanics
Advacned Finite Element Methods
Advanced Mechanics of Materials
Process Control
Tool Design
Turbomachinery
Fluid Power: Hydraulics & Pneumatics
Introduction to Computational Fluid Dynamics
Aerodynamics
Aerospace Propulsion Systems

Management Electives

Project Management
Principles of Management
Social Media Marketing
Financial Management
Entrepreneurship

Social Sciences Electives

Introduction to International Relations
Critical Thinking
Understanding Psychology and Human Behavior
Professional Ethics
Social Anthropology

International Projects

Shell Eco-Marathon Asia 2018

The Shell Eco-Marathon is an annual competition sponsored by Shell, in which participants build special vehicles to achieve the highest possible fuel efficiency. The Eco-Marathon is held around the world with events in Europe, America and Asia.

In March 2018, DSU student team participated in Shell Eco-Marathon Asia 2018 competition and was among the top 2 teams from Pakistan to make it to the track events and to register a valid run of 51 km/l.

IMechE UAS Challenge 2018

The Unmanned Aircraft Systems Challenge (UAS) is an annual student competition in aerospace sector that is organized by the Institution of Mechanical Engineers (IMechE). The event was held from 18-19 June, 2018 at Snowdonia Aerospace Center, Llanbedr, UK.

Team Zarrar of DHA Suffa University (DSU) participated for the 2nd consecutive year in IMechE UAS Challenge. The team received special appreciation by Rod Williams, Chief Scrutineer of the competition.

Formula Student Australasia (FSAE-A) 2016

In December 2016, our students participated in the international FSAE-A 2016 competition and earned the honor of being the first and only team from Pakistan to ever qualify for the dynamic track events in their very first year of participation.

Bachelor Degree Programs
BE (ELECTRICAL)

Introduction

The Electrical Engineering Department at DHA Suffa University offers a Bachelor's Degree Program BE (Electrical) spanning over 4 years. The Electrical Engineering curriculum at DHA Suffa University is prepared in accordance with the most recent HEC guidelines. Specialization streams of Power Systems, Telecommunications, and Electronics are offered through elective courses beyond the core of Electrical Engineering. All BE (Electrical) students go through a common set of core Electrical Engineering courses in the first two years and then select a stream of their choice from the third year onwards. This allows students to select an area of their interest that also has market demand. This approach maximizes the chances of rapid absorption of BE (Electrical) graduates into the highly competitive job market.

Program Mission

To produce graduates who are mindful of societal issues and can assume diversified engineering roles in national and global organizations.

Program Educational Objectives (PEOs)

- Apply electrical engineering knowledge in solving complex engineering problems as either an employee or an entrepreneur.
- Have ability to perform with effective communication and management skills both individually and as a team member.
- Pursue research nationally and internationally to enhance their professional qualification and knowledge.
- Demonstrate professional integrity and commitment to social, environmental and ethical responsibilities.

Eligibility

- Intermediate or an equivalent examination (Pre-Engineering) with at least 60% marks; Or
- Must have studied Mathematics, Physics and Chemistry at HSSC / A- level
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NEDUET (current year), NTS NAT (IE/ICS) (current year) or SAT II (within two years) if appeared. Applicants Submitting NEDUET, NTS NAT (IE/ICS) or SAT II test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET, NTS NAT (IE/ICS) or SAT II scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Course Code	Credit Hours
I	Applied Physics	BS-1101	3
	Applied Physics Lab	BS-1101L	1
	Calculus and Analytical Geometry	BS-1301	3
	Electrical Workshop Practice	EE-1012L	1
	Introduction to Computing	EE-1013	1
	Introduction to Computing Lab	EE-1013L	1
	Linear Circuit Analysis	EE-1014	3
	Linear Circuit Analysis Lab	EE-1014L	1
	Functional English	HU-1009	2
	Islamic Studies	HU-2201	2
			Total 18
II	Linear Algebra	BS-1302	3
	Computer Aided Engineering Drawing	EE-1023L	1
	Programming Fundamentals	EE-1024	2
	Programming Fundamentals Lab	EE-1024L	1
	Electronic Devices and Circuits	EE-1225	3
	Electronic Devices and Circuits Lab	EE-1225L	1
	Pakistan Studies	HU-2101	2
	Communication Skills	HU-XXXX	2
	IDEE-I	XX-XXXX	3
			Total 18
III	Complex Variables and Transforms	BS-3301	3
	Electromagnetic Field Theory	EE-2034	3
	Electrical Network Analysis	EE-2135	3
	Electrical Network Analysis Lab	EE-2135L	1
	Digital Logic Design	EE-2232	3
	Digital Logic Design Lab	EE-2232L	1
	Computing Elective	EE-2XXX	3
	Computing Elective Lab	EE-2XXXL	1
			Total 18
IV	Probability Method for Engineers	BS-1403	3
	Differential Equations	BS-2302	3
	Signals and Systems	EE-2043	3
	Signals and Systems Lab	EE-2043L	1
	Introduction to Embedded Systems	EE-2241	3
	Introduction to Embedded Systems Lab	EE-2241L	1
	Management Science Elective-I	MS-XXXX	3
			Total 17
V	Natural Science Elective	BS-XXXX	3
	Linear Control Systems	EE-3052	3
	Linear Control Systems Lab	EE-3052L	1
	Electrical Machines	EE-3151	3
	Electrical Machines Lab	EE-3151L	1
	Communication Systems	EE-3353	3
	Communication Systems Lab	EE-3353L	1
	IDEE-II	XX-XXXX	3
			Total 18
VI	Breadth Core-II	EE-3XXX	3
	Breadth Core-I	EE-3XXX	3
	Breadth Core-II Lab	EE-3XXXL	1
	Breadth Core-I Lab	EE-3XXXL	1
	Technical and Business Communication	HU-4008	3
	Humanities / Social Sciences Elective I	HU-XXXX	3
	Management Sciences Elective II	MS-XXXX	3
			Total 17
VII	EE Design Project 1	EE-4071	3
	Depth Elective II	EE-4XXX	3
	Depth Elective III	EE-4XXX	3
	Depth Elective I	EE-4XXX	3
	Depth Elective I Lab	EE-4XXXL	1
	Depth Elective III Lab	EE-4XXXL	1
	Depth Elective II Lab	EE-4XXXL	1
	Humanities / Social Sciences Elective II	HU-XXXX	2
			Total 17
VIII	EE Design Project 2	EE-4081	3
	Depth Elective VI	EE-4XXX	3
	Depth Elective IV	EE-4XXX	3
	Depth Elective V	EE-4XXX	3
	Depth Elective V Lab	EE-4XXXL	1
	Depth Elective IV Lab	EE-4XXXL	1
			Total 14
		TOTAL CREDIT HOURS	**137**

NOTES:

1. The lab/practical part of the course is treated separately. All aspects of the laboratory components including teaching, attendance, assignments, examination and grading are treated separately from the theory components.
2. HEC unified BE (Electrical) Curriculum NCRC 2012 is followed.

Specialization Streams

Area	Course Title	
Telecommunication	Computer Communication Networks Optical Communication Digital Communication RF and Microwave Engineering Digital Image Processing Satellite Engineering Information Theory and Coding	Transmission and Switching Mobile and Pervasive Computing Wave Propagation and Antennas Multimedia Communication Wireless and Mobile Communication Navigation and Radar Systems
Electronics	Digital Control Systems Industrial Process Control Digital Electronics Instrumentation & Measurement Digital Image Processing Integrated Electronics Digital System Design	Nanoelectronics Embedded System Design Optoelectronics FPGA Based System Design Organic Electronics Industrial Electronics VLSI Design
Computer Systems	Computer Communication Networks Operating Systems Introduction to AI Introduction to Data Science in Python Deep Learning Introduction to Cloud Computing Introduction to Embedded Systems Digital Signal Processing Digital Image Processing Introduction to Biomedical Engineering Digital Control Systems Digital Systems Design	Industrial Communication Parallel Processing Data Communication Network Protocols and Standards Network Security Computer Graphics Internet of Things (IoT) Industrial IoT Computer Vision Programming with Cloud IoT Platforms Cyber-Physical Systems
Power Systems	Advanced Electrical Machines Power System Analysis Electrical Machine Design Power System Distribution Electrical Power Transmission	Power System Protection PLC and Electrical Drives Power System Stability & Control Power Generation Renewable Energy Systems

Cross Registration

Under cross-registration, students enrolled in the BE (Electrical) degree program can get credits in their coursework at DSU by registering and taking exams in equivalent online courses offered by top-ranking foreign universities through edX or Coursera.

DSU Course	Foreign University Offering Equivalent Courses	Foreign University Course
EE-1021: Linear Circuit Analysis	MIT, USA	Circuits & Electronics
EE-3512: Electrical Power Systems	MIT, USA	Introduction to Electric Power Systems
EE-3232: Digital Signal Processing	Ecole Polytechnique Federale de Lausanne , France	Digital Signal Processing
EE-3113: Power Electronics	University of Colorado at Boulder, USA	Introduction to Power Electronics
EE-1011: Introduction to Computing & Programming	MIT, USA	Introduction to Computer Science and Programming
BS-1403: Probability and Statistics	UC Berkeley, USA	Introduction to Statistics
BS-1101: Applied Physics	University of Colorado at Boulder, USA	Physics-1 (for Physical Science Majors)
BS-1301: Calculus and Analytical Geometry	University of Pennsylvania, USA	Calculus: Single Variable
BS-1302: Linear Algebra	University of California, Irvine, USA	Algebra

Bachelor Degree Programs
BS (COMPUTER SCIENCE)

Introduction

The Bachelor of Computer Science Program spans over four years consisting of core courses in Computing, Science, and Mathematics, with specialization courses in Cloud and Cluster Computing, Mobile & Ubiquitous Computing, Computational Linguistics, Computer Graphics & Visualization and Bio-Informatics. These courses are offered in close collaboration with the software industry so that students are well-prepared for the rapidly changing trends in IT. Students must complete 138 credit hours with a minimum CGPA of 2.0 to earn the degree. The purpose of the Bachelor in Computer Science Degree Program is to produce world-class IT entrepreneurs and researchers, who can be the backbone of the rapidly growing IT industry of Pakistan.

Eligibility

- Intermediate or an equivalent examination (Pre-Engineering/ Pre-Medical/ General Science) with at least 50% marks; Or
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NEDUET (current year), NTS NAT (IE/ICS) (current year) or SAT II (within two years) if appeared. Applicants Submitting NEDUET, NTS NAT (IE/ICS) or SAT II test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET, NTS NAT (IE/ICS) or SAT II scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Course Code	Credit Hours
I	Introduction to Information & Communication Technology	CS-1201	3
	Introduction to Information & Communication Technology Lab	CS-1201L	1
	Programming Fundamentals	CS-1001	3
	Programming Fundamentals Lab	CS-1001L	1
	Islamic Studies	HU-1002	2
	English Composition & Comprehension	HU-1001	3
	Calculus and Analytical Geometry	BS-1301	3
		Total	16
II	Object Oriented Programming	CS-1002	3
	Object Oriented Programming Lab	CS-1002L	1
	Digital Logic Design	CS-1101	3
	Digital Logic Design Lab	CS-1101L	1
	Communication Skills	HU-2001	3
	Multivariate Calculus	BS-2301	3
	Basic Electronics	BS-1102	2
	Basic Electronics Lab	BS-1102L	1
		Total	17
III	Data Structures & Algorithms	CS-2001	3
	Data Structures & Algorithms Lab	CS-2001L	1
	Computer Organization & Assembly Language	CS-2101	2
	Computer Organization & Assembly Language Lab	CS-2101L	1
	Discrete Structures	CS-2002	3
	Pakistan Studies	HU-1006	2
	Technical & Business Writing	HU-3001	3
	Linear Algebra	BS-1302	3
		Total	18
IV	Database Systems	CS-2003	3
	Database Systems Lab	CS-2003L	1
	Operating Systems	CS-2004	3
	Operating Systems Lab	CS-2004L	1
	Theory of Automata & Formal Languages	CS-2102	3
	HU/MG Elective-I	HU/MG-XXXX	3
	Probability & Statistics	BS-1402	3
		Total	17
V	Design & Analysis of Algorithms	CS-3001	3
	Introduction to Software Engineering	CS-3102	3
	Data Communication & Computer Networks	CS-3002	3
	Compiler Construction	CS-3101	3
	HU/MG Elective-II	HU/MG-XXXX	3
	Differential Equations	BS-2302	3
		Total	18
VI	Artificial Intelligence	CS-3103	3
	Information Security	CS-3003	3
	Computer Architecture	CS-3104	3
	CS Elective-I	CS-33XX	3
	HU/MG Elective-III	HU/MG-XXXX	3
	Numerical Computing	BS-3302	3
		Total	18
VII	Human Computer Interaction	CS-4100	3
	CS Project - 1	CS-4001	3
	CS Seminar Course 1	CS-4200	1
	CS Elective-II	CS-43XX	3
	CS Elective-III	CS-43XX	3
	CS Elective-IV	CS-43XX	3
	HU/MG Elective IV	HU/MG-XXXX	3
		Total	19
VIII	Professional Issues in IT	CS-4202	3
	CS Project - 2	CS-4002	3
	CS Seminar Course 2	CS-4201	1
	CS Elective-V	CS-43XX	3
	CS Elective-VI	CS-43XX	3
		Total	13
		TOTAL CREDIT HOURS	**136**

Specialization Streams

Area	Course Title	
Mobile & Ubiquitous Computing	Computing Mobile	Application Development
	Mobile & Wireless	Computing Mobile Software Engineering
	Human Computer Interaction	Tiny OS
	Android Programming	Cyber Security
Cloud & Cluster Computing	High Performance Computing	Cloud Computing
	Social Computing	Big Data Analytics
	Cluster & Grid Computing	Semantic Web
	Concurrent & Distributed Computing	Computational Social Science
Bio-Informatics	Introduction to Bio-Informatics	Computational Genomics
	Computational Genetics	Protein Sequence & Structural Analysis
	Biological Data	Management Computational Chemistry
Computational Linguistics	Natural Language Processing	Text Mining
	Statistical NLP	Machine Learning
	Computational Grammar	Computational Morphology
Computer Graphics and Visualization	Introduction to Computer Graphics using Modern OpenGL	Graphics Programming in the Web Browser using WebGL
	High Performance Computing using CUDA	Mathematical Methods in Computer Graphics
	Physically based animation in Computer	Graphics Introduction to GPU programming using Shaders
	Mobile Graphics Programming on Android	Scientific Visualization

Cross Registration

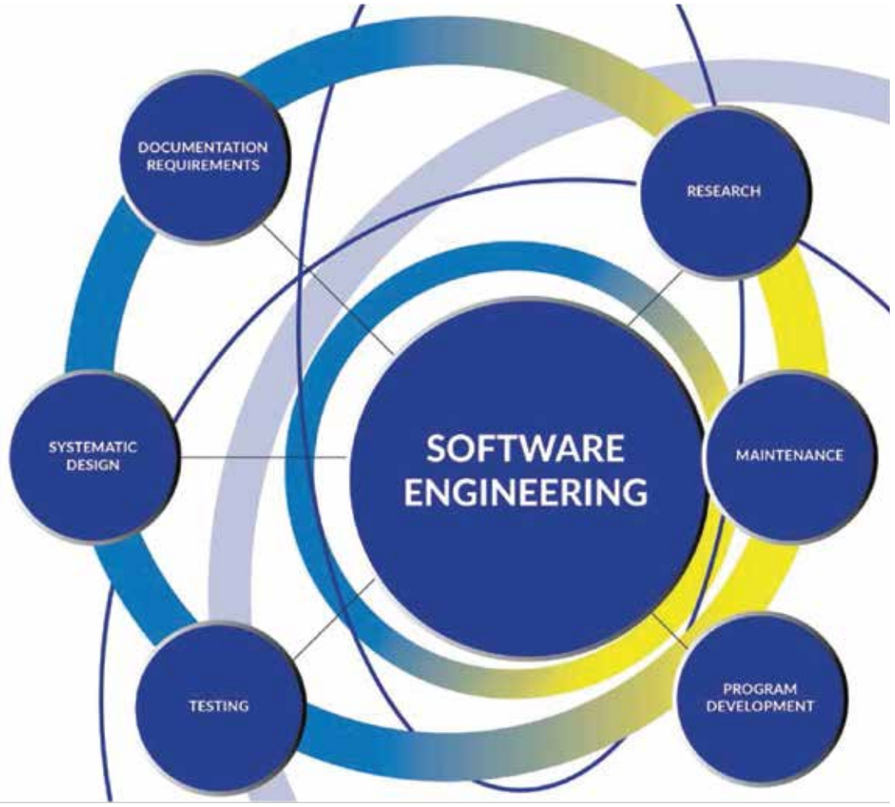
Under cross-registration, students enrolled in DSU BS (Computer Science) degree program can get credits in their coursework at DSU by registering and taking exams in equivalent online courses offered by top-ranking foreign universities.

Cross Registration with Online Courses at Stanford, MIT, UC Berkeley and others

DSU Course	Foreign University Offering Equivalent Courses	Foreign University Course
USA CS-204: Database Systems	University of Washington, USA	Principles of Database Systems
USA CS-206: Operating Systems	UC Berkeley, USA	Operating Systems and System Programming
CS-302: Design and Analysis of Algorithms	MIT, USA	Introduction to Algorithms
CS-305: Software Engineering	UC Berkeley, USA	Software Engineering
CS-306: Artificial Intelligence	UC Berkeley, USA	Introduction to Artificial Intelligence
CS-313: Compiler Construction	UC Berkeley, USA	Programming Languages and Compilers
CS-404: Professional Issues in IT	MIT, USA	Introduction to Copyright Law
CS-440: Mobile Application Development	Stanford, USA	iPhone Application Development
CS-421: Machine Learning	University of California Irvine, USA	Machine Learning
CS-551 Introduction to Computer Graphics using Modern OpenGL	MIT, USA	Computer Graphics

Bachelor Degree Programs

BS (SOFTWARE ENGINEERING)



Introduction

The Bachelor of Science in Software Engineering (BS-SE) Program spans over four years (Eight Semesters) with a total of 130 credit hours. The minimum CGPA of 2.0 (on a scale of 4.0) is required to obtain BS-SE degree. The courses are designed to meet the requirement of the Software Industry.

The BS-SE degree program consists of Computing-core courses, General education courses, Mathematics and Science foundation courses with specialization in the following suggested areas:-

Artificial Intelligence (AI), Data Warehousing & Data Mining, Digital Image Processing, E-Commerce, Global Software development, Information Security. Mobile Application Development, Simulation and Modeling, Multimedia Communications, Operation Research

Eligibility

- Intermediate or an equivalent examination (Pre-Engineering/ Pre-Medical/ General Science) with at least 50% marks; Or
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NEDUET (current year), NTS NAT (IE/ICS) (current year) or SAT II (within two years) if appeared. Applicants Submitting NEDUET, NTS NAT (IE/ICS) or SAT II test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET, NTS NAT (IE/ICS) or SAT II scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Course Code	Credit Hours	Prerequisite
I	Introduction to Information and Communication Technology	SE-1201	2+1	–
	Programming Fundamentals	SE-1001	3+1	–
	English Composition & Comprehension	HU-1001	3+0	–
	Calculus & Analytical Geometry	BS-1301	3+0	–
	Pakistan Studies	HU-1006	2+0	–
	Applied Physics	BS-1101	3+0	–
			Total	16+2
II	Object Oriented Programming	SE-1002	3+1	Programming Fundamentals
	Communication & Presentation Skills	HU-2001	3+0	English Composition and Comprehension
	Discrete Structures	SE-2002	3+0	–
	Software Engineering	SE-XXXX	3+0	–
	Islamic Studies	HU-1002	2+0	–
	University Elective – I	SE-XXXX	3+0	–
			Total	17+1
III	Data Structures & Algorithms	SE-2001	3+1	Object Oriented Programming
	Software Requirement Engineering	SE-XXXX	3+0	Software Engineering
	Human Computer Interaction	SE-XXXX	3+0	Software Engineering
	Linear Algebra	BS-1302	3+0	–
	University Elective – II	SE-XXXX	3+0	–
			Total	15+1
IV	Operating Systems	SE-2004	3+1	Data Structures & Algorithms
	Database Systems	SE-2003	3+1	Data Structures & Algorithms
	Software Design & Architecture	SE-XXXX	2+1	Software Requirement Engineering
	Probability and Statistics	BS-1402	3+0	–
	University Elective – III	SE-XXXX	3+0	–
			Total	14+3
V	Software Construction and Development	SE-XXXX	2+1	Software Design and Architecture
	Computer Networks	SE-3002	3+1	–
	Technical and Business Writing	HU-3001	3+0	Communication & Presentation Skills
	SE Supporting –I	SE-XXXX	3+0	–
	SE Supporting –II	SE-XXXX	3+0	–
			Total	14+2
VI	Software Quality Engineering	SE-XXXX	3+0	Software Engineering
	Information Security	SE-3003	3+0	–
	Professional Practice	HU-XXXX	3+0	–
	Web Engineering	SE-XXXX	3+0	–
	SE Elective –I	SE-XXXX	3+0	–
	SE Supporting –II	SE-XXXX	3+0	–
			Total	18+0
VII	Software Project Management	SE-XXXX	3+0	Software Engineering
	Software Re-Engineering	SE-XXXX	3+0	Software Construction & Development
	SE Elective -II	SE-XXXX	3+0	–
	SE Elective – III	SE-XXXX	3+0	–
	Final Year Project – I	SE-4001	0+3	–
			Total	12+3
VIII	SE Elective – IV	SE-XXXX	3+0	–
	SE Elective – V	SE-XXXX	3+0	–
	Final Year Project – II	SE-4002	0+3	–
	University Elective – IV	SE-XXXX	3+0	–
			Total	9+3
			TOTAL CREDIT HOURS	136

Bachelor Degree Programs

BE (CIVIL)

Introduction

The Civil Engineering Department at DHA Suffa University shall offer a Bachelor's Degree Program BE (Civil) spanning over 4 years. The program has been prepared in accordance with the Pakistan Engineering Council (PEC) guidelines. The DCK campus shall serve as the living lab for civil engineers with all sorts of ongoing mega projects in the vicinity area. Specialization streams of Construction Management, Structures, Transportation and Water Resources shall be offered through elective courses beyond the core Civil Engineering courses.

Eligibility

- Intermediate or an equivalent examination (Pre-Engineering) with at least 60% marks; Or
- Must have studied Mathematics, Physics and Chemistry at HSSC / A- level
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NEDUET (current year), NTS NAT (IE/ICS) (current year) or SAT II (within two years) if appeared. Applicants Submitting NEDUET, NTS NAT (IE/ICS) or SAT II test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET, NTS NAT (IE/ICS) or SAT II scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Course Code	Credit Hours
I	Engineering Drawing	CE-1101	1
	Engineering Drawing Lab	CE-1101L	2
	Engineering Surveying	CE-1102	2
	Engineering Surveying Lab	CE-1102L	1
	Basic Electrical Engineering	EE-1XXX	1
	Basic Electrical Engineering Lab	EE-1XXXL	1
	Functional English	HU-1009	2
	Applied Calculus	BS-1301	3
	Pakistan Studies	HU-2101	2
			Total 15
II	Engineering Mechanics	CE-1103	3
	Engineering Mechanics Lab	CE-1103L	1
	Engineering Material	CE-1104	2
	Engineering Material Lab	CE-1104L	1
	Computer Programming	CE-1401	1
	Computer Programming Lab	CE-1401L	2
	Basic Mechanical Engineering	ME-1002	1
	Basic Mechanical Engineering Lab	ME-1002L	1
	Islamic Studies / Ethical Behaviour (for non-Muslims)	HU-2201	2
	Linear Algebra & Ordinary Differential Equations	BS-2303	3
			Total 17
III	Mechanics of Solids-I	CE-2105	2
	Mechanics of Solids-I Lab	CE-2105L	1
	Advanced Surveying	CE-2201	2
	Advanced Surveying Lab	CE-2201L	1
	Civil Engineering Drawing and Graphics	CE-2402	1
	Civil Engineering Drawing and Graphics Lab	CE-2402L	2
	Engineering Geology	CE-2505	2
	Probability & Statistics	BS-2XXX	2
	Probability & Statistics Lab	BS-2XXXL	1
	Professional Ethics	HU-2XXX	2
			Total 16
IV	Construction Engineering	CE-2106	3
	Structural Analysis-I	CE-2107	3
	Soil Mechanics	CE-2108	3
	Soil Mechanics Lab	CE-2108L	1
	Fluid Mechanics-I	CE-2109	3
	Fluid Mechanics-I	CE-2109L	1
	Numerical Analysis	BS-3XXX	3
	Architecture and Town Planning	CE-2601	2
			Total 19
V	Advanced Fluid Mechanics	CE-3202	3
	Advanced Fluid Mechanics Lab	CE-3202L	1
	Reinforced Concrete Design-I	CE-3203	3
	Reinforced Concrete Design-I Lab	CE-3203L	1
	Quantity & Cost Estimations	CE-3403	2
	Quantity & Cost Estimations Lab	CE-3403L	1
	Transportation Engineering-I	CE-3204	3
	Transportation Engineering-I Lab	CE-3204L	1
	Engineering Economics	MS-4407	2
			Total 17
VI	Mechanics of Solids-II	CE-3301	2
	Mechanics of Solids-II Lab	CE-3301L	1
	Structural Analysis-II	CE-3205	3
	Construction Management	CE-3502	2
	Construction Management Lab	CE-3502L	1
	Geo Informatics	CE-3503	1
	Geo Informatics Lab	CE-3503L	1
	Management Science Elective	MS-XXXX	3
	Humanities/ Social Science Elective	HU-XXXX	3
			Total 17
VII	Environmental Engineering-I	CE-4206	2
	Environmental Engineering-I Lab	CE-4206L	1
	Geo Technical & Foundation Engineering	CE-4302	3
	Geo Technical & Foundation Engineering Lab	CE-4302L	1
	Transportation Engineering-II	CE-4303	3
	Transportation Engineering-II Lab	CE-4303L	1
	Technical and Business Communication	HU-4008	3
	Civil Engineering Project	CE-4701L	3
			Total 17
VIII	Reinforced Concrete Design-II	CE-4304	3
	Reinforced Concrete Design-II	CE-4304L	1
	Environmental Engineering-II	CE-4305	2
	Design of Steel Structures	CE-4306	3
	Hydraulics and Irrigation Engineering	CE-4307	3
	Civil Engineering Project	CE-4702L	3
	Technical Elective	CE-XXXX	3
			Total 18
		TOTAL CREDIT HOURS	**136**

Bachelor Degree Programs
BBA

Program Philosophy

The BBA program at DHA Suffa University anchors on providing **core** and **applied knowledge** of Management Sciences through an interactive and **experiential learning** process.

Program Objectives

- To provide a platform for the development of conceptual, critical and analytical skills to manage complex business situations in a global, intercultural and diverse environment.
- To facilitate understanding of interdisciplinary knowledge in order to recognize dynamic factors in business challenges and to propose innovative ideas for pragmatic solutions.
- To indoctrinate the core ethical principles within dynamics of the organizations & society that are necessary to become socially responsible and capable of adding value in the business world.

Learning Outcomes

We expect our students to achieve the following:

- **Analytical Knowledge:** Students can demonstrate sound technical & analytical competence pertaining to business management concepts & practices in a domestic as well as global scenario.
- **Strategic Thinking:** Students possess strategic & reflective cognitive skills that inculcate out of the box thinking with the ability to develop a pragmatic stance and situation rationalization for optimum results.
- **Interdisciplinary Competence:** Students are able to decipher real business challenges and to manage complex business situations in a heterogeneous cultural environment.
- **Communication Skills:** Students have confident verbal and written communication skills with the ability to develop and deliver quality content in a professional manner.
- **Ethical Awareness:** Students are ethically aware and equipped to become responsible citizens and help build a better society through continuous engagement in community service.

Eligibility

- Intermediate or an equivalent examination with at least 45% marks; Or
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NTS (current year) or SAT I (within two years) if appeared. Applicants Submitting NTS or SAT I test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NTS or SAT I scores will be advised to appear in the DSU Admissions Test for better chances of securing admission

**Candidates less than 50% have to appear for an interview*

Plan of Study (BBA 4 Years)

Semester	Course Title	Course Code	Credit Hours
I	Business Mathematics	BS-1401	3
	Freshman English - I	HU-1005	3
	Islamic Studies	HU-1203	2
	Pakistan Studies	HU-2101	2
	Introduction to Computing	MS-1301	3
	Microeconomics	MS-1401	3
			Total 16
II	Understanding Psychology and Human Behavior	HU-1303	3
	Sociology	HU-1401	3
	Oral Communication and Presentation Skills	HU-2007	3
	Principles of Management	MS-1101	3
	Principles of Accounting	MS-1201	3
	Macroeconomics	MS-1402	3
			Total 16
III	Business Statistics	BS-2402	3
	Business Communication	HU-2008	3
	Critical Thinking	HU-2501	3
	Business Law	MS-2102	3
	Financial Accounting	MS-2202	3
	Development Economics	MS-2403	3
			Total 16
IV	Statistical Inference	BS-2403	3
	Academic Writing	HU-2010	3
	Principles of Marketing	MS-2001	3
	Organizational Behavior	MS-2103	3
	Economic Issues of Pakistan	MS-2404	3
	Introduction to Business Finance	MS-3204	3
			Total 16
V	Cost Accounting	MS-2203	3
	Marketing Management	MS-3002	3
	Human Resource Management	MS-3104	3
	Management Information System	MS-3302	3
	Production and Operation Management	MS-3501	3
	Business Research Methods	MS-3601	3
			Total 16
VI	Consumer Behavior	MS-3003	3
	Entrepreneurship and Small Business Management	MS-3105	3
	E-Business	MS-3303	3
	Data Analytics	MS-3602	3
	Business Ethics	MS-3710	3
	Financial Management	MS-4205	3
			Total 16
VII	Specialization - I	------	3
	Specialization - II	------	3
	Professional Development	MS-4106	3
	Business Policy	MS-4107	3
	Financial Markets and Institutions	MS-4206	3
	Foreign Language	MS-4711	3
			Total 16
VIII	Specialization - III	-----	3
	Specialization - IV	-----	3
	Research Project	MS-4603	6
			Total 16
			TOTAL CREDIT HOURS 138

BBA 2.5 Years (After 14 Years of Education)

Semester	Course Title	Course Code	Credit Hours
I	Introduction to Computing	MS-1301	3
	Principles of Management	MS-1101	3
	Principles of Accounting	MS-1201	3
	Business Economics	MS-1403	3
	Academic Writing	HU-2010	3
	Business Mathematics & Statistics	BS-5410	3
			Total 18
II	Marketing Management	MS-3002	3
	Human Resource Management	MS-3104	3
	Introduction to Business Finance	MS-3204	3
	Management Information System	MS-3302	3
	Production & Operations Management	MS-3501	3
	Business Research Methods	MS-3601	3
			Total 18
III	Consumer Behavior	MS-3003	3
	Financial Management	MS-4205	3
	Entrepreneurship & Small Business Management	MS-3105	3
	E- Business	MS-3303	3
	Data Analytics	MS-3602	3
	Business Ethics	MS-3710	3
			Total 18
IV	Professional Development	MS-4106	3
	Financial Markets & Institutions	MS-4206	3
	Foreign Language	MS-4711	3
	Specialization – I	MS-4000	3
	Specialization – II	MS-4000	3
	Business Policy	MS 4107	3
			Total 18
V	Research Project	MS-4603	6
	Specialization – III	MS-4000	3
	Specialization – IV	MS-4000	3
			Total 12
			Total Credit Hours 84

Specialization Streams

Area	Course Title
Marketing	Advertising Global Marketing/International Marketing Retail Marketing Customer Relationship Management Direct Marketing Export Marketing Event Management Internet Marketing/Digital Marketing Marketing Planning & Analysis Social Media Marketing Relationship Marketing Sales Management Business to Business Marketing Promotional and Advertisement Management
Human Resource Management	Conflict Resolution & Negotiation Leadership & Motivational Techniques Performance Appraisal HR Information System Compensation Management Human Resource Management Staffing & Performance Management International HRM Change Management Recruitment & Selection Training & Development Human Resource Planning Legal, Ethical and Safety Issues Organizational Development
Finance	Security Analysis Treasury & Fund Management International Finance Financial Economics Entrepreneurial & Small Business Finance Financial Markets & Institutions Business Taxation Policy & Practice Accounting for Decision Making Islamic Banking & Finance Investment & Portfolio Management Risk Management Analysis of Financial Statement Managerial Accounting Auditing Marketing of Financial Services
Management Information Systems	Programming Application Systems Information Systems Analysis and Design Database Systems Networking Business Application Programming Information Systems Security System and Network Administration Web Application Development Strategic Information Technology Management
Supply Chain Management	Introduction to Supply Chain Management Lean and Six Sigma Processes Logistics and Transportation Management Global Supply Chain Management Total Quality Management Distribution and Supply Chain Network Design Production Planning and Inventory Control Supply Chain Modeling and Optimization Supply Chain Design, Management & Control

Bachelor Degree Programs

BS (ACCOUNTING & FINANCE)

Introduction

The program will help students acquire technical skills required to analyze financial statements, perform financial analysis and study financial and security markets. They would develop in depth knowledge of the role of accounting and finance in measuring business growth. The program comprises of curriculum which would equip the students to pursue a career in leading banks and financial institutions. The specialization stream provides graduates an opportunity to pursue careers as accountants, auditors, tax specialists, financial analysts, fund managers, traders, brokers and investment researchers.

Eligibility

- Intermediate or an equivalent examination with at least 45% marks; Or
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NTS (current year) or SAT I (within two years) if appeared. Applicants Submitting NTS or SAT I test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NTS or SAT I scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Cr Hr	ICAP	ICMAP	ACCA
I	Functional English	3	√		
	Introduction to Mathematics	3	√		√
	Introduction to Statistics	3	√		√
	Islamic Studies	3			
	Pakistan Studies	3			
II	Mercantile Law	3	√	√	√
	Business Communication	3	√		√
	Introduction to Economics	3	√		√
	Introduction to Finance	3	√		
	Introduction to Financial Accounting	3	√	√	√
III	Financial Accounting	3	√	√	√
	Money, Banking & Capital Markets	3			
	Governance, Risk & Ethics	3			√
	Organizational Behavior	3	√		
	Taxation	3	√	√	√
IV	Company Law	3	√		√
	Cost Accounting	3	√		√
	Financial Management	3			√
	Auditing	3	√	√	√
	Information Technology	3	√		
V	IT Management, Audit & Control	3	√		√
	Advanced Accounting	3	√	√	√
	Financial Reporting	3	√	√	√
	Corporate Law	3	√		√
	Management Accounting	3	√	√	√
VI	Strategic Financial Management	3			√
	Strategic Management Accounting	3			√
	Business Management	3	√	√	√
	Advanced Taxation	3	√		√
	Advanced Auditing	3	√		√
VII	Business Finance Decision	3	√		
	Business Research Methods	3			
	Business Analysis	3			
	Strategic Management	3			√
	Performance Management	3			√
VIII	Advanced Financial Management	3			√
	Islamic Banking & Finance	3			
	Investment Analysis & Portfolio Management	3			√
	Advanced Performance Management	3			√
	Research Project	3			
	Total Credit Hours	**120**			

Exemptions

a) Will only be allowed for courses passed from the HEC recognized institutions e.g., Institute of Chartered Accountants of Pakistan (ICAP), Institute of Cost and Management Accountants of Pakistan (ICMAP) and others.
b) Will be granted where the original earned grade is 'C' or better.
c) Will be granted to a maximum of 50% of the total credits in the program.
d) All exemptions shall be governed by relevant HEC guidelines.

Bachelor Degree Programs

BS (ENGLISH)

Introduction

The Bachelor of Computer Science Program spans over four years consisting of core courses in Computing, Science, and Mathematics, with specialization courses in Cloud and Cluster Computing, Mobile & Ubiquitous Computing, Computational Linguistics, Computer Graphics & Visualization and Bio-Informatics. These courses are offered in close collaboration with the software industry so that students are well-prepared for the rapidly changing trends in IT. Students must complete 138 credit hours with a minimum CGPA of

Eligibility

- Intermediate or an equivalent examination with at least 45% marks;
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NTS (current year) or SAT I (within two years) if appeared. Applicants Submitting NTS or SAT I test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NTS or SAT I scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Credit Hours
I	Study Skills	3
	English 1 – Reading and Writing Skills	2
	Introduction to English Language	3
	Introduction to English Literature	3
	Sociology	3
	Islamic Studies	2
		Total 16
II	Exploring Creative Writing	3
	Introduction to Phonetics and Phonology	3
	Literary Forms and Movements	3
	Human Resource Management	3
	The Language of Advertising	3
	Pakistan Studies	2
		Total 17
III	Introduction to Information & Computer Technology (ICT)Skills	3
	Principles of Marketing	3
	Introduction to Morphology	3
	Global Poetry	3
	English III : Public Speaking and Presentation Skills	3
	Short Fictional Narratives	3
		Total 18
IV	English IV: Academic Reading and Writing	3
	Human Rights and Citizenship	3
	Classical and Renaissance Drama	3
	Classical Poetry	3
	Semantics	3
	Rise of the Novel (18th to 19th century)	3
		Total 18
V	International Relations	3
	Popular Fiction	3
	Romantic and Victorian Poetry	3
	Foundations of Literary Theory & Criticism	3
	Sociolinguistics	3
	Introduction to Environmental studies	3
		Total 18
VI	Modern Poetry	3
	Modern Drama	3
	Modern Novel	3
	Introduction to Syntax	3
	Discourse Analysis	3
	Writing Non Fiction	3
		Total 18
VII	Research Methods and Term paper writing	3
	Introduction to Applied Linguistics	3
	Introduction to Stylistics	3
	Literary Theory and Practice	3
	Pakistani Literature in English	3
		Total 15
VIII	Introduction to Translation Studies	3
	American Literature	6
	Post-colonial Literature	3
	World Englishes	3
	Language Testing and Assessment	3
		Total 15
	TOTAL CREDIT HOURS	**136**

Bachelor Degree Programs

BS (INTERNATIONAL RELATIONS)

Introduction

International Relations (IR) as a course of study reflects the dynamics of the International System. The System is a complex web with multiple but mutually functioning components and is characterized by interfacing changes and continuities, which are instrumental in the dynamic nature of the discipline. IR is a broad discipline that encapsulates the multivariate aspects of man in the global contexts. It is what can be described as 'a fusion of social science disciplines', as it deals with the basic elements of the social man; the only difference is that it looks at such essentials in relational contexts beyond national borders. Our richly connected, complex world seeks professionals skilled in International Relations, an exciting field of study that presents a globally oriented perspective on issues that transcend national boundaries.

Eligibility

- Intermediate or an equivalent examination with at least 45% marks; Or
- A-Level with minimum 3 passes in principal subjects
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- At least 50% marks in DSU Entrance Test

Optional

Valid test scores of NTS (current year) or SAT I (within two years) if appeared. Applicants Submitting NTS or SAT I test scores shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NTS or SAT I scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Plan of Study

Semester	Course Title	Credit Hours
I	ENGLISH-I	3
	PAKISTAN STUDIES	2
	INTRODUCTION TO MATHEMATICS	3
	INTRODUCTION TO INTERNATIONAL RELATIONS	3
	GENERAL-I (INTRODUCTION TO POLITICAL SCIENCE)	3
	GENERAL-II (INTRODUCTION TO ECONOMICS)	3
		Total 17
II	ENGLISH-II	3
	ISLAMIC STUDIES / ETHICS	3
	INTRODUCTION TO STATISTICS	3
	EVOLUTION OF STATE	3
	GENERAL-III (INTRODUCTION TO PHILOSOPHY)	3
	GENERAL-IV (Introduction to Social Work) OR (Muslim Political Thought)	2
		Total 17
III	ENGLISH-III	3
	INTRODUCTION TO COMPUTER SKILLS	3
	APPROACHES AND THEORIES OF INTERNATIONAL RELATIONS	3
	POLITICAL GEOGRAPHY	3
	DIPLOMATIC HISTORY OF EUROPE 1789-1939	3
	INTERNATIONAL RELATIONS: 1648-1945	3
		Total 18
IV	ENGLISH-IV OR EVERYDAY SCIENCE	3
	GLOBALIZATION AND INTERNATIONAL RELATIONS	3
	GENERAL-V (LOGIC AND REASONING)	3
	INTERNATIONAL RELATIONS SINCE 1945	3
	GEO-POLITICAL STRUCTURE OF THE WORLD	3
	PUBLIC INTERNATIONAL LAW-I	3
		Total 18
V	FOREIGN POLICY ANALYSIS	3
	INTERNATIONAL SECURITY	3
	RESEARCH METHODOLOGY	3
	REGIONAL AND INTERNATIONAL ORGANIZATIONS	3
	PUBLIC INTERNATIONAL LAW-II	3
	INTERNATIONAL POLITICAL ECONOMY	3
		Total 18
VI	SOCIAL CHANGE AND DEVELOPMENT STUDIES	3
	STRATEGIC STUDIES	3
	INTERNATIONAL POLITICS OF HUMAN RIGHTS	3
	CONFLICT MANAGEMENT AND RESOLUTION	3
	COMPARATIVE POLITICS	3
	DIPLOMACY	3
		Total 18
VII	COMPARATIVE FOREIGN POLICIES OF US, RUSSIA, AND CHINA	3
	SCIENCE, TECHNOLOGY AND INTERNATIONAL RELATIONS	3
	PEACE RESEARCH AND PEACE MOVEMENTS	3
	ELECTIVE-I (TERRORISM AND COUNTER TERRORISM) OR (COMTEMPORARY POLITICAL IDEOLOGIES)	3
	INTERNATIONAL POLITICS OF ENVIRONMENT	3
		Total 15
VIII	RESEARCH THESIS OR RESEARCH REPORT	3
	ARMS CONTROL, DISARMAMENT AND NUCLEAR NON-PROLIFERATION	6
	DYNAMICS OF KASHMIR CONFLICT	3
	CPEC AND REGIONAL CONNECTIVITY ETHNIC CONFLICT IN GLOBAL PERSPECTIVE	3
	ELECTIVE-III (PAKISTAN DEFENCE AND SECURITY POLICY) OR RESEARCH METHODOLOGY-II	3
		Total 15
	TOTAL CREDIT HOURS	**136**

Master Degree Programs
ME (MECHANICAL)

Introduction

The Department of Mechanical Engineering offers ME Mechanical Engineering Degree Program in the following four specializations:

1. Engineering Mechanics
2. Thermofluids
3. Materials and Manufacturing
4. Energy Systems and Technologies

ME (Mechanical) students are required to complete 30 credit hours of graduate studies which include:

- Coursework: 24 Credit Hours
- Thesis Research: 6 Credit Hours

The ME (Mechanical) coursework is divided between a set of core and specialization (elective) courses offered by the ME Department, subject to availability of faculty and its teaching or research interests.

The complete list of electives is available on the next pages.

Eligibility

- Sixteen years of schooling or 4-years education after HSSC/Grade 12 equivalent in a relevant field of study will be required for admission in the Masters program
- The applicant must pass the NTS GAT General Test with a minimum score of 50% or other such equivalent test acceptable as per HEC guidelines
- In case of admission tests conducted by the university, a minimum of 60% marks will be required

**or other such equivalent tests acceptable as per HEC guidelines*

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Compulsory 1 – Mathematics	3
2	Compulsory 2 – Specialization	3
3	Compulsory 3 – Specialization	3
4	Compulsory 4 – Specialization	3
	Semester 2	
5	Elective 1 – Specialization Elective	3
6	Elective 2 – Specialization Elective	3
7	Elective 3 – General Elective	3
8	Elective 4 – General Elective	3
	Semester 3	
9	Thesis /	6 /
	Elective 5 – General Elective	3
	Elective 6 – General Elective	3
	TOTAL	**30**

Note: *'Elective 3 - General' and 'Elective 4 - General' courses can be taken from any of the courses listed under 'Elective Courses for ME and PhD in Mechanical Engineering'.*

ME (Mechanical) Coursework – Compulsory Courses

a. The general elective courses can be taken from Mathematics, general or any specialization stream courses
Students will be required to take three compulsory courses in their area of specialization which are as follows.:

Engineering Mechanics
1. Continuum Mechanics
2. Advanced Dynamics
3. Advanced Finite Element Analysis

Thermofluids
1. Advanced Fluid Mechanics
2. Advanced Heat & Mass Transfer
3. Advanced Thermodynamics

Materials and Manufacturing
1. Advanced Manufacturing Processes
2. Advanced Engineering Materials
3. Selection of Materials

Energy Systems and Technologies
1. Advanced Heat and Mass Transfer
2. Energy Management and Utilization
3. Fundamentals of Energy Engineering

b. In addition, the students will be required to take one course from the following list of five approved graduate level mathematics courses:
1. Advanced Numerical Methods
2. Functional Analysis and Computational Linear Algebra
3. Applied Regression and Design of Experiments
4. Advanced Probability and Statistics
5. Advanced Mathematical Techniques

ME (Mechanical) Coursework – Elective Courses

In addition to the four compulsory courses, each ME student at DSU will be required to complete four elective courses (12 credit hours). The elective courses offered by the Department of Mechanical Engineering will depend on the teaching and research interests of the ME graduate faculty.

Elective Courses for ME and PhD in Mechanical Engineering

Area	Course Title
General Courses	Optimization of Engineering Systems Measurements and Instrumentation Special Topics in Mechanical Engineering
Mathematics Courses	Advanced Numerical Methods Functional Analysis and Computational Linear Algebra Applied Regression and Design of Experiments Advanced Probability and Statistics Advanced Mathematical Techniques
Engineering Mechanics Stream Courses	Continuum Mechanics Advanced Finite Element Methods Advanced Dynamics Constitutive Modeling of Materials Advanced Vibrations Nonlinear Dynamics and Chaos Microelectromechanical Systems Robotics and Parallel Mechanisms Theory of Elasticity Theory of Plasticity Modern Control of Linear Systems Rotordynamics Smart Materials and Structures Mechanics of Composite Materials Theory of Plates and Shells Special Topics in Engineering Mechanics

Area	Course Title	
Thermofluid Stream Courses	Advanced Fluid Mechanics Computational Fluid Dynamics Modeling and Simulation of Turbulent Flows Two Phase Flows and Phase Change Fluid Structure Interaction Turbulence and Mixing Advanced Heat and Mass Transfer Combustion Phenomena Viscous Flow Power Plant Engineering Aerodynamics Aerospace Propulsion	Advanced Gas Dynamics Renewable Energy Technologies Advanced Thermodynamics Conduction Heat Transfer Convection Heat Transfer Radiation Heat Transfer Advanced Turbomachinery Transport Processes in Energy Systems Experimental Fluid Mechanics Inviscid Flow Special Topics in Thermofluids
Materials and Manufacturing Stream Courses	Continuum Mechanics Advanced FEA Materials for High Temperature Applications Advanced Fatigue and Fracture Analysis Tribology Material Structure and Defects Thermodynamics of Materials Engineering Nanomaterials Mechanical Properties of Engineering Polymers Advanced Manufacturing Processes Advanced Product Design Manufacturing Process Capability Supply Chain Management in Engineering Simulation of Industrial System Operations Research	Finite Element Analysis in Manufacturing Processes Advanced Machine Design Non-destructive Testing Project Management Application of Computer Graphics in Engineering Artificial Intelligence in Design and Manufacturing Reliability and Quality Engineering Sustainable Manufacturing Selection of Materials Special Topics in Materials and Manufacturing
Energy System and Technology Stream Courses	Energy Audit and Management Solar Thermal Engineering Bio Energy Engineering Environmental Impact Assessment Hybrid Power Sources Hydro Power Plants Wind Energy Engineering Instrumentation in Energy Systems Fuels and Combustion Power Electronics and Motor Drives Electrical Power Transmission and Distribution Renewable Energy Systems Energy Systems Modelling and Simulation	Advanced Clean Coal Technologies Combustion and Pollution Control Hydrogen Technologies and Fuel Cells Energy Management in Buildings Energy Economics and Management Solar Photovoltaic Systems Biofuels Engineering Advanced Heat and Mass Transfer Energy Management and Utilization Fundamentals of Energy Engineering Electrical Power Generation Systems

ME Thesis

As part of the requirements for the award of ME degree, the ME student must carry out research work on an approved topic and submit a thesis. The thesis work is required to be carried out under the supervision of an approved Supervisor and Advisory Committee. The ME Thesis will be evaluated as specified in the DHA Suffa University Rules and Regulations for Graduate Studies.

Master Degree Programs
ME (ELECTRICAL)

Introduction

The Department of Electrical Engineering offers a ME Electrical Engineering Degree Program requiring the student to complete 30 credit hours of graduate studies which include:

- Coursework : 24 Credit Hours
- Thesis Research : 6 Credit Hours

ME (Electrical) program requires the students to complete a small set of core courses and allows them to choose most of the remaining courses from the advanced elective courses offered.

Eligibility

- Sixteen years of schooling or 4-years education after HSSC/Grade 12 equivalent in a relevant field of study will be required for admission in the Masters program
- The applicant must pass the NTS GAT General Test with a minimum score of 50% or other such equivalent test acceptable as per HEC guidelines

**or other such equivalent tests acceptable as per HEC guidelines*

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Compulsory 1- Mathematics	3
2	Compulsory 2- Specialization	3
3	Elective 1-Specialization	3
4	Elective 2-Specialization	3
	Semester 2	
5	Compulsory 3- Specialization	3
6	Compulsory 4- Specialization	3
7	Elective 3 – General	3
8	Elective 4 – General	3
	Semester 3	
9	Thesis*	6
	OR OR	
	Elective 5 – Specialization**	3
	Elective 6 – Specialization**	3
		TOTAL 30

ME (Electrical) Coursework – Core Courses

The core courses of the ME (EE) Program are:

- Advanced Mathematical Techniques
- Advanced Computing and Simulation Techniques
- Research Methodology

ME (Electrical) Coursework – Elective Courses

In addition to the three core courses, each ME (Electrical) student at DSU shall choose five elective courses (15 credit hours) from the graduate courses offered by the Electrical Engineering Department. Furthermore, out of the five elective courses, a student may choose two approved graduate courses offered by other departments at DSU. The elective courses offered by the Department of Electrical Engineering will depend on the teaching and research interests of the EE graduate faculty. A tentative list of sample EE Elective Courses that may be offered by the Department is given on page 75.

Elective Courses for ME and PhD in Electrical Engineering

Area	Course Title	
Power Systems Engineering	Advanced High Voltage Engineering	Power System Circuit Breakers and Sub-stations
	Power System Modeling and Analysis	Advanced Power System Transmission
	Power System Distribution	Power System Reliability
	Advanced Power System Protection	Insulation Coordination in Power Systems
	Power Generation Economics	Power System Restructuring
	Energy Management Advanced	Power System Stability
	Power Quality	Renewable Energy Systems
	Distributed Generation Condition	Monitoring Techniques
	Control of DC Machines and Drives	Control of AC Machines and Drives
	Power Electronics Devices and Converters	Modeling and Simulation of Converters
	Switch-Mode Power Supplies	Modeling and Simulation of Electrical Machines
	Special Electrical Machines	Advanced Electrical Machine Design
Control Engineering	Linear Control Systems	Non-Linear Control Systems
	Linear Multi variable Control Theory	Control System Optimization
	Optimal Control Systems Random	Variables and Stochastic Processes
	Stochastic Processes in Electrical	Engineering Estimation Theory
	Adaptive Control Systems	Stochastic Control
	Digital Control Systems	Dynamics of Robots
	Introduction to Chaos Theory	Chaos Theory & Fractals
	Linear Control Systems	Digital Control
	Non-linear Control Systems	Optimal Multi variable Control
	Robust Control	System Identification
	Adaptive Filter Theory	Detection & Estimation
	Filtering & Tracking	Fuzzy Control
Electronics and Embedded Sytems	Semiconductor Device Physics	Semiconductor Processing
	Linear Control Systems	Electromagnetic Field Analysis
	Stochastic Systems	Quantum Mechanics
	Microwave Devices	Solid State Electronics
	Non-Linear Control Systems	Thin Film Processing
	Radiating Systems & Antennas	Photonic Devices
	Thin Film Characterization	Organic Electronics
	Digital Integrated Circuit Design	Analog Integrated Circuit Design
Telecommunication	Probability and Random Processes	Advanced Communication Systems
	Advanced Digital Communication	Information Theory and Coding
	Advanced Communication	Networks Microwave Systems
	Advanced concepts in Radar Applications	Global Positioning and Navigation Systems
	Advanced Digital Signal Processing	Advanced Mobile Communication
	Signal Detection and Estimation	Advanced Optical Communication
	Advanced Satellite Communications	Radio wave Propagation
	Broadband Communication	Electromagnetic Compatibility
Communication Systems and Networks	Electromagnetic Field Analysis	Semiconductor Device Physics
	Linear Control Systems	Advanced DSP
	Stochastic Systems	Radiating Systems & Antennas
	Microwave Networks & Passive Components	Microwave Devices
	Advanced Computer Networks	Adaptive Filter Theory
	Secure Communications	Advanced Digital Communication
	Computational E.M.	Microwave IC Design
	Real-time DSP	Spatial Array Processing
	Filtering & Tracking	Information & Coding Theory
	Wireless Communication	Digital Integrated Circuit Design
	Stochastic Processes	Modeling and Simulation
	Telecommunication Network Operations	Signal Processing Applications in Reconfigurable Architecture

ME Thesis

As part of the requirements for the award of ME (EE) degree the ME students carry out research work on an approved topic and submit a thesis. Students conduct the thesis research under the supervision of an approved Supervisor and Advisory Committee. Both the thesis and the student must pass the evaluation as specified in the DHA Suffa University Rules and Regulations for Graduate Studies.

Master Degree Programs
MS (COMPUTER SCIENCE)

Introduction

The Master in Computer Science program at DSU is designed to help students advance their professional knowledge and skills beyond the Bachelor level. The specific objectives of the program are to enable graduates to:

- Engage in problem solving through critical thinking which is essential for studying at the doctoral level;
- Understand the computing profession with respect to professional, social, and ethical issues that prepare them for potential challenges in the future;
- Analyze the computing needs of user communities and individuals;
- Prepare a design to solve computational problems using state-of-the-art knowledge and information resources;
- Solve the real-world problems using algorithmic abstraction for the betterment of mankind.

Program Structure

The MS in Computer Science program at DSU is a blend of the academic and professional exposure to implement an effective curriculum model. A rigorous 24 credit hours coursework is followed by 6 credit hours thesis work unified with the chosen field of specialization. The program is spread over 4 semesters with minimum 30 credit hours that are based on 2 core courses of fundamental computing with 6 electives from a wide range of elective courses. The research interests in the department include: High Performance Computing, Ubiquitous Computing, Software Engineering, Computer Networks and Information Security, Computer Graphics and Visualization, Bio-informatics and Big Data Analytics.

Eligibility

- Sixteen years of schooling or 4-years education after HSSC/Grade 12 equivalent in a relevant field of study will be required for admission in the Masters program
- The applicant must pass the NTS GAT General Test with a minimum score of 50% or other such equivalent test acceptable as per HEC guidelines

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Advanced Analysis of Algorithms	3
2	Advanced Theory of Computation	3
3	MS(CS) Elective 1	3
4	Research Methodology	1
	Semester 2	
5	Advanced Computer Architecture	3
6	Advanced Operating Systems	3
7	MS(CS) Elective 2	3
	Semester 3	
8	MS(CS) Elective 3	3
9	MS(CS) Elective 4	3
10	MS Thesis-I	3
	Semester 4	
11	MS Thesis-II	3
	TOTAL	**31**

In lieu of MS Thesis (6 credit hours) student may opt one course (3 credit hours) and Research Project (3 credit hours).

Elective Courses for MS and PhD in Computer Science

Mobile & Ubiquitous Computing	Ubiquitous Computing Mobile Application Development Mobile & Wireless Computing Mobile Software Engineering
Cloud & Cluster Computing	Computing Cloud Computing Social Computing Cluster & Grid Computing Concurrent & Distributed Computing Big Data Analytics Computational Social Science Data Mining
Bioinformatics	Introduction to Bioinformatics Computational Biology Biological Data Management Computational Genomics Protein Sequence & Structural Analysis System Biology
Computational Linguistics	Natural Language Processing Statistical NLP Computational Grammar Machine Learning Computational Morphology
Computer Graphics & Visualization	Advanced Computer Graphics Physically based Animation in Computer Graphics Mobile Graphics Programming on Android High Performance Computing using CUDA Graphics Programming in the Web Browser using WebGL Mathematical Methods in Computer Graphics Introduction to GPU Programming using Shaders Scientific Visualization

Master Degree Programs
MBA

Program Philosophy

The MBA program at DHA Suffa University strives to provide meta knowledge to analytical minds by promoting critical and reflective thinking in situation analysis & decision making within an environment that nurtures innovative ideas.

Program Objectives

- To prepare tomorrow's business strategists and decision makers through interactive facilitation of learning in a practical environment.
- To stimulate application of conceptual theories on meta-theoretical business situations to bridge the gap between academia and industry.
- To highlight the need to intertwine business practices with ethics, transparency and accountability to become a role model.

Learning Outcomes

We expect our students to achieve the following:

- **Business Decision Making:** Graduates demonstrate the ability to perform necessary analysis, diagnose problems, evaluate alternatives and make effective decisions as a result of our case based pedagogy.
- **Critical Thinking:** Graduates understand the complexities of a business environment and possess the required cognitive skill-set to think critically and develop strategies within the limits of available resources.
- **Situation Analysis & Management:** Graduates can apply qualitative and quantitative approaches to obtain valuable information and tackle complex business situations utilizing global perspectives to identify and understand significant international and multicultural issues.
- **Entrepreneurship & Innovation:** Graduates possess fundamental skills of creating and managing innovation, new business development, and high-growth potential entities in a highly competitive environment.
- **Social & Ethical Sentience:** Graduates exhibit ethical consciousness and understand implications of decisions on society and environment.

Eligibility

The applicant must pass the NTS GAT General Test with a minimum score of 50% or other such equivalent test acceptable as per HEC guidelines

Cr Hrs: 30, Duration 1.5 years, Semester: 3

- MBA pathway for 16 years of Bussiness Education (e.g. BBA, MBA, MCom) with minimum CGPA 2.0/4.0 or 50% marks:
- Professionally qualified Character Accountants (ACA/FCA) and cost & Management Accountants (ACMA/FCMA) will be given preference

Cr Hrs: 60, Duration: 2 years, Semester: 4

- MBA pathway for 16 years of education (e.g. BE, MBBS, MSc, MA etc.) with minimum CGPA 2.0/4.0 or 50% marks:

MBA 36 Credit Hours (1.5 Years)

Semester	Course Title	Course Code	Credit Hours
I	International Business	MS-5006	3
	Strategic Finance	MS-5206	3
	Advanced & Applied Research Methods	MS-5604	3
	Specialization – I	MS-XXXX	3
		Total	12
II	Strategic Marketing	MS-5005	3
	Strategic HRM	MS-5108	3
	Specialization – II	MS-XXXX	3
	Specialization – I11	MS-XXXX	3
		Total	12
III	Strategic Management	MS-6109	3
	Final / Capstone Project	MS-XXXX	6
	Specialization – IV	MS-XXXX	3
		Total	12
		TOTAL CREDIT HOURS	**36**

MBA 60 Credit Hours (2 Years)

Semester	Course Title	Course Code	Credit Hours
I	Principles of Marketing	MS-4001	3
	Business Management & Ethics	MS-4110	3
	Financial Accounting	MS-4202	3
	Managerial Communication	HU-5001	3
	Business Mathematics & Statistics	BS-5410	3
		Total	15
II	Marketing Management	MS-5002	3
	Strategic HRM	MS-5108	3
	Financial Management	MS-5205	3
	Business Economics	MS-5405	3
	Specialization – I	MS-XXXX	3
		Total	15
III	Strategic Marketing	MS-5005	3
	International Business	MS-5006	3
	Strategic Finance	MS-5206	3
	Advanced & Applied Research Methods	MS-5604	3
	Specialization – II	MS-XXXX	3
		Total	15
IV	Strategic Management	MS-6109	3
	Specialization – III	MS-XXXX	3
	Specialization – IV	MS-XXXX	3
	Final / Capstone Project	MS-XXXX	6
		Total	15
		TOTAL CREDIT HOURS	**60**

MBA 90 Credit Hours (3.5 Years)

Semester	Course Title	Course Code	Credit Hours
I	Principles of Marketing	MS-3001	3
	Business Management & Ethics	MS -110	3
	Financial Accounting	MS-3202	3
	Managerial Communication	HU-5001	3
	Business Mathematics & Statistics	BS-5410	3
		Total	15
II	Marketing Management	MS-3002	3
	Organizational Behavior	MS-3103	3
	Cost Accounting	MS-3203	3
	Business Economics	MS-3401	3
	Business Research Methods	MS-3601	3
		Total	15
III	Consumer Behavior	MS-4003	3
	Human Resource Management	MS-4104	3
	Introduction to Business Finance	MS-4204	3
	Enterprise Applications	MS-4304	3
		Total	12
IV	Entrepreneurship	MS-4111	3
	Financial Management	MS-4205	3
	E-Business	MS-4303	3
	Production & Operations Management	MS-4501	3
		Total	12
V	Strategic Marketing	MS-5005	3
	International Business	MS-5006	3
	Specialization – I	MS-XXXX	3
	Specialization – II	MS-XXXX	3
		Total	12
VI	Strategic Finance	MS-5206	3
	Advanced & Applied Research Methods	MS-5403	3
	Specialization - III	MS-XXXX	3
	Specialization – IV	MS-XXXX	3
		Total	12
VII	Strategic HRM	MS-5108	3
	Strategic Management	MS-6109	3
	Research / Capstone Project	MS-XXXX	6
		Total	12
		TOTAL CREDIT HOURS	**90**

Specialization Streams

Students can choose elective courses from one of the following five specialization streams namely Finance, Marketing, Human Resource Management (HRM), Management Information System and Supply Chain Management.

Area	Course Title	
Marketing	Services Marketing	Media Planning
	Public Relations & Media Marketing	Integrated Marketing Communications
	Trade Marketing	Marketing Research
	Competitive Intelligence Marketing	Pharmaceutical Marketing
	Industrial Marketing	Pharmaceutical Sales Management
	Brand Management	Healthcare Marketing
Human Resource Management	Talent Management	International HRM Challenges
	Crisis Management	Employee Engagement
	Compensation and Benefits	Organizational Development
	Job Analysis & Design	Labor Relations
	Motivation & Reward Management	Workforce Planning, Development & Outsourcing
	Strategic HRM & Leadership	Recruitment & Selection
	Workforce Diversity Management	Conflict Resolution & Negotiation
	Industrial & Organizational Psychology	Training & Development
Finance	Financial Derivatives	Banking Operation & Credit Management
	Working Capital Management	Applied Portfolio & Fund Management
	Corporate Governance	Corporate Finance
	Financial Strategy & Corporate Restructuring	Security Analysis
	Capital Budgeting & Financial Planning	Corporate & Investment Banking
	Venture Capital & Private Finance	Auditing
	Multinational Finance Management	Taxation
	Fixed Income Securities	Islamic Finance Theory and Practice
	Prudential Regulations	
Management Information Systems	Information Systems Project Management	Data Mining
	Decision Support and Business Intelligence Systems	Customer Relationship Management Technologies
	Advanced Database Management	E-Commerce Technologies
	Advanced Systems Analysis and Design	Data Communication and Networking
	Business Information Security	Software Development Methodologies
	Data Warehousing	Internet Development Technologies
	Information Systems Sourcing	Oracle IT
	IT Security Controls	Information Security, Audit & Control
Supply Chain Management	Procurement and Sourcing	Project Management
	BPR/ERP	Vendor Selection and Development
	Strategic Logistics Management	Customer Relationship Management
	Distribution and Channels Management	Quality Assurance in Supply Chain Management
	SCM Technology and Applications	Supply Chain Strategies
	Forecasting in Supply Chain	Marketing Channels

Master Degree Programs
MS (MANAGEMENT SCIENCES)

Introduction

The Department of (Management Sciences) offers a Master of Science in Management Sciences degree program which requires the students to complete 30-credit hours of graduate studies as follows:

(a) Core coursework: 12 Credit Hours
(b) Specialization Courses: 12 Credit Hours
(c) Thesis Research: 6 Credit Hours

The MS (Management Sciences) program has been structured to envisage the current challenges being faced by the management professionals and scholars and provides the participants with the

- Vision and capacity to excel in their professional careers;
- Latest theoretical and practical advances in the relevant fields;
- Research methods and techniques to undertake research assignments independently;
- Appropriate academic writing and publication guidelines; and
- Tools necessary for a career in academia.

Eligibility

- Sixteen years of schooling or 4-years education after HSSC/Grade 12 equivalent in a relevant field of study will be required for admission in the Masters program.
- The applicant must pass the NTS GAT General Test with a minimum score of 50% or other such equivalent test acceptable as per HEC guidelines.

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Strategic Management	3
2	Advanced Research Methodology	3
3	Strategic Marketing	3
4	Elective – I	3
	Semester 2	
5	Strategic Finance	3
6	Elective-II	3
7	Elective-III	3
8	Elective IV	3
	Semester 3	
9	Thesis / Two Elective Courses*	6
	TOTAL	**30**

Specialization

Area	Course Title
Finance	Investment Analysis Portfolio Management Derivatives Risk Management Analysis of Financial Statements
Marketing	Brand Management Advertising Consumer Behavior Services Marketing Marketing Research
HRM	Training & Development Recruitment & Selection Performance Appraisal Compensation Management Change Management Conflict Resolution and Negotiation Skills

Doctoral Programs

PhD (MANAGEMENT SCIENCES)

Introduction

The Department of Management Sciences provides a productive and supportive atmosphere for postgraduate studies. The students receive in-depth research guidance, involving various research techniques, methods and approaches. The aim of the PhD program is to prepare students to conduct high level independent research which makes an original contribution to the body of knowledge in the field of Management Sciences. Students are mentored by HEC recognized supervisors to produce extraordinary research work.

Eligibility

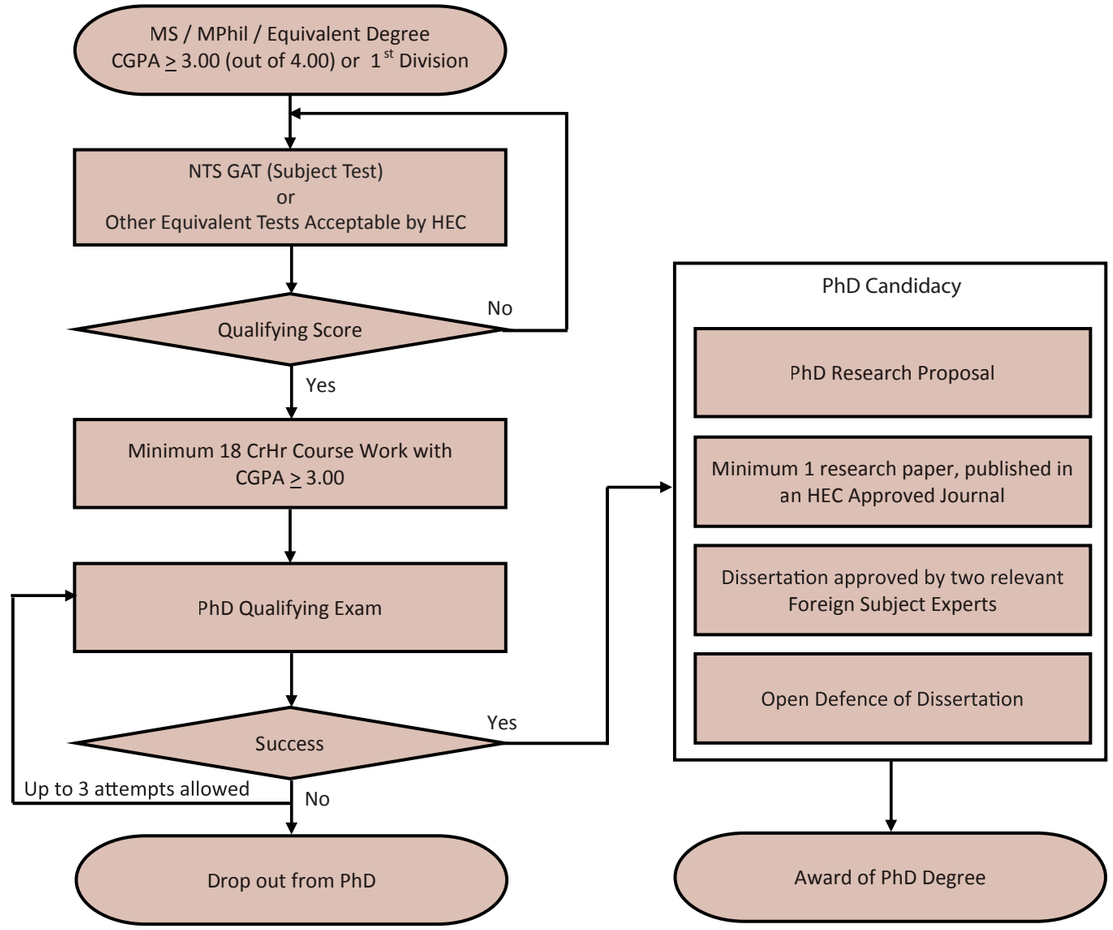
- Master's degree or equivalent with eighteen (18) years of education in Management Sciences or a closely related field of study with a minimum CGPA of 3.0 out of 4.0 in the semester system or 60% marks in the annual system; and
- NTS GAT Subject in Management Sciences with minimum cumulative score of 60% or other such equivalent tests acceptable as per HEC guidelines

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Seminar in Advanced Research Techniques	3
2	Seminar in Advanced Quantitative Tools	3
3	Elective-I	3
	Semester 2	
4	Independent Research Study	3
5	Elective-III	3
6	Elective-IV	3
	Semester 3	
7	Comprehensive Exam	3
	Semester 4 - 6	
7	Dissertation	36
	TOTAL	**54**

*Student may opt 02 elective courses of 3 credit hours each in lieu of MS thesis.
The elective courses will be offered subject to the number of students required for a course to be announced

PhD Flow Chart



Doctoral Programs
PhD (MECHANICAL ENGINEERING)

Introduction

The Department of Mechanical Engineering offers a PhD program in line with DSU's general guidelines and policies as stated in DHA Suffa University's Academic Regulations and subject to fulfilling HEC's mandatory requirements for PhD programs.

Eligibility

- Master's degree or equivalent with eighteen (18) years of education in Mechanical Engineering or a closely related field of study with a minimum CGPA of 3.0 out of 4.0 in the semester system or 60% marks in the annual system; and
- NTS GAT Subject in Mechanical Engineering with minimum cumulative score of 60% or other such equivalent tests acceptable as per HEC guidelines
- In case of admission tests conducted by the university, a minimum of 70% marks will be required

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Elective 1	3
2	Elective 2	3
3	Elective 3	3
	Semester 2	
4	Elective 4	3
5	Elective 5	3
6	Elective 6	3
	Semester 3	
7	PhD Comprehensive Exam	–
	Semester 4	
8	PhD Dissertation Proposal	–
	Semester 5 Onwards	
9	PhD Dissertation	36
		TOTAL 54

The courses can be taken from Mathematics, general or any specialization stream courses. The coursework for PhD candidates is specified by the Supervisor in consultation with the Advisory Committee.

Elective Courses

Based on the available faculty and its teaching and research interests, PhD students can choose elective courses in the following four specializations:

1. Engineering Mechanics
2. Thermofluids
3. Materials and Manufacturing
4. Energy Systems and Technologies

The students are required to complete 48 credit hours of doctoral studies which include:

- Coursework: 18 Credit Hours
- Dissertation: 30 Credit Hours

The tentative list of Elective Courses for PhD (Mechanical Engineering) is the same as the Master's degree program.

Doctoral Programs
PhD (ELECTRICAL ENGINEERING)

Introduction

The Department of Electrical Engineering offers a PhD program according to DSU's general guidelines and policies stated in DHA Suffa University's Academic Regulations and in accordance with the HEC mandatory requirements for PhD programs. The PhD program in Electrical Engineering prepares its graduates for careers in academia and industrial research.

Eligibility

- Master's degree or equivalent with eighteen (18) years of education in Mechanical Engineering or a closely related field of study with a minimum CGPA of 3.0 out of 4.0 in the semester system or 60% marks in the annual system; and
- NTS GAT Subject in Mechanical Engineering with minimum cumulative score of 60% or other such equivalent tests acceptable as per HEC guidelines

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Elective 1	3
2	Elective 2	3
3	Elective 3	3
	Semester 2	
4	Elective 4	3
5	Elective 5	3
6	Elective 6	3
	Semester 3	
7	Written Comprehensive Exam & PhD Proposal Defense	–
	Semester 4,5,6	
8	PhD Dissertation	36
		TOTAL 54

Elective Courses

Based on the available faculty and its teaching and research interest, PhD students can choose elective courses from areas of Control Systems, Telecommunications, Electronics and Embedded Systems, Communication Systems and Networks and Power Systems. The tentative list of Elective Courses for PhD Electrical Engineering is given on page 76.

Doctoral Programs

PhD (COMPUTER SCIENCE)

Introduction

The PhD in Computer Science program at DSU has been introduced for those who want to extend the universal horizon of knowledge and skills. The program is a combination of coursework and research which enables the students to create new knowledge, tools and paradigms. The coursework enables the students to acquire latest cutting edge knowledge and skills in their fields of interest. The research work enables the students to produce high quality research output for their thesis/dissertation.

In their dissertations, the students are encouraged to work for the improvement of society. Research fields available in the Department are: High Performance Computing, Ubiquitous Computing, Software Engineering, Information Management, Network & Information Security, Computer Graphics and Visualization, Bio-informatics and Big Data Analytics.

Eligibility

- Masters degree or equivalent with eighteen (18) years of education in Computer Science or a closely related field of study with a minimum CGPA of 3.0 out of 4.0 in the semester system or 60% marks in the annual system; and
- NTS GAT Subject Test with minimum cumulative score of 60% or other such equivalent tests acceptable as per HEC guidelines

Plan of Study

S. No.	Course Title	Credit Hours
	Semester 1	
1	Elective 1	3
2	Elective 2	3
3	Elective 3	3
	Semester 2	
4	Elective 4	3
5	Elective 5	3
6	Elective 6	3
	Semester 3	
7	Written Comprehensive Exam & Proposal Defence	-
	Semester 4	
8	PhD Dissertation	12
	Semester 5	
9	PhD Dissertation	12
	Semester 6	
10	PhD Dissertation	12
		TOTAL 54

Elective Courses

In our thematic PhD program, students can choose elective courses from areas of Software Engineering, Computer Networks and Information Security, High Performance Computing, Ubiquitous Computing, Computer Graphics and Visualization, Bio-Informatics, and Big Data Analytics. The courses are offered depending on the available faculty and their teaching and research interests. The tentative list of Elective Courses for PhD Computer Science is given on page 78.

UNIVERSITY FACILITIES AND SUPPORT

DSU Library
The campus has a well-stocked library and resource center with an extensive range of text and multimedia resources. The DSU library holds a rich collection of textbooks and reference books, local and foreign newspapers, magazines, journals and audio-visual material. DHA's well-known Defence Central Library (DCL) is also accessible to DSU students and faculty as an additional resource. Moreover, photocopying, printing, binding, scanning and internet services are also available.

Stylish Cafeteria
The self service cafeteria at DSU offers a wide variety of food and snacks to students and staff in a hygienic and relaxing environment. It also acts as a hub for student interaction and activity.

Separate Prayer Areas
DSU equally values the diversity of religious beliefs and convictions held by its students and staff. In an effort to facilitate students and staff, separate praying areas for men and women are provided.

Executive Lecture Theater
A world class Executive Lecture Theater has been established. The theater holds an impressive ambiance with modern facilities to conduct seminars, conferences, workshops and training programs.

DSU Auditorium and Conference Room
A state-of-the-art conference room and a spacious auditorium is available to students to organize seminars, conferences and other co-curricular activities at the campus.

Transport
Transport facility is also available for DSU students commuting from different accessible points in the city. This service is provided by transporters contracted by the University.

Sports Facilities
Students regularly utilize sports facilities available to them for basketball, volleyball, table tennis and other indoor games. Also, DSU frequently sponsors the participation of its students in inter-university sports and extra-curricular competitions.

Common Room for Girls
A common room is provided for girls to relax or offer prayers.

UNIVERSITY SERVICES

Career Services & Corporate Relations
The prime objective of the Department of Career Services & Corporate Relations (CS & CR) is to assist the graduating students in job placements and enroll students in registering for corporate and industry internship programs. The CS & CR department works in close collaboration with the departments of Mechanical Engineering, Electrical Engineering, Computer Science and Management Sciences to ensure that students and graduates get connected with the right employer. The CS & CR department uses technology-based solutions to scan the right opportunities in the market and also focuses on cultivating deep relationships in the industry. This mechanism facilitates DSU graduates and students in matching their skills with the requirements of the job market.

The department of CS & CR enables DSU students and graduates to learn how to apply their academic knowledge and skills in the practical world. Student development programs such as Leadership Development Workshops, Mock Interviews and Employer Branding sessions are scheduled specifically to prepare students to best achieve their objective and be recruited by the organization of their choice. Other activities of the department include organizing Career Fairs, Recruitment Drives, Press Briefings and conducting Employer Surveys on a regular basis. As a result of the services offered by the department of CS & CR, DSU graduates are placed in some of the most prestigious organizations in the country and abroad.

Academic Guidance
Academic guidance is important to familiarize the students with the current academic requirements to excel in their educational career. Although, our faculty members are willing to meet and help students according to their need, each class has been allocated an advisor to provide dedicated and specialized attention to students at an individual level. The students can contact the assigned advisor if they encounter any problem. Moreover, a female advisor has also been appointed to guide female students.

Alumni Relations

DHA Suffa University established its Office of Alumni Relations in the year 2018 as it recognizes and values the importance of maintaining ties with its graduates and involving them in the development of the University. The Alumni Relations Office provides invaluable services to its graduates, such as career guidance, access to learning services and resources, and variety of other facilities at DSU. These include life-long engagement through the Alumni Card, opportunities to be involved in activities such as public lectures, conferences, sports, industry linkages and staying connected to each other. Furthermore, this office aims to keep the Alumni informed about their Alma Mater through testimonials, the Alumni Directory and Alumni meet-ups by bringing them together, being of service to them and facilitating their involvement in the DSU community.

This office uses different media such as Facebook and LinkedIn to establish and maintain the essential elements of a successful Alumni program and also shares the available opportunities in the market that will help the Alumni to grow further in their professional careers. The Alumni Association is another aspect through which Alumni can register themselves and be elected for the organizing body of the DSU Alumni Association. The Alumni Card is yet another avenue which provides corporate discount offers to DSU graduates. Apart from these, this office also conducts Alumni Surveys on a regular basis to keep their database updated

CODE OF CONDUCT FOR STUDENTS

Students are expected to observe the following rules on the University premises, in the University administered places of other activities being held under the auspices of the University:

- Loyalty to Pakistan and refraining from doing anything which is repugnant to its honor and prestige in any way
- Respect for convictions and traditions of others in matters of religion, conscience and customs while observing own religious duties
- Truthfulness and honesty in dealing with other people, respect for elders and politeness to all
- Special respect for teachers and others in authority
- Cleanliness of body, mind, speech and habits
- Helpfulness to fellow human beings
- Devotion to studies and co-curricular activities; observance of thrift and protection of public property

The following acts are prohibited at DSU:

- Smoking on campus premises
- Consumption of alcoholic drinks or other intoxicating drugs
- Organizing or taking part in any function inside the campus or organizing any club or society of students except in accordance with the prescribed rules and regulations
- Collecting any money or receiving funds or pecuniary assistance for or on behalf of DSU, except with the written permission of the competent authority.

EXAMINATIONS

Effective Spring 2018, the University is following the relative grading system. The Grade Point Average is worked out by awarding letter grades on a scale of 4.0. Letter grades are awarded as per the following distribution:

Letter Grade	Grade Points
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.50
C	2.00
C-	1.67
D+	1.33
D	1.00
F	0.00
W	Withdrawn
I	Incomplete

DRESS CODE

The dress code at DSU is based on the general principles of decency and in conformity with the social norms of the country. The dress should not be indecent having provocative images or scripts. Female students are not expected to put on makeup or expensive jewelry.

STUDENTS HANDBOOK

For detailed information about DSU examination rules and policies, dress code and student code of conduct, students can refer to the DSU Student Handbook. Students are expected to strictly abide by the rules and regulations presented in the DSU Student Handbook.

FEE STRUCTURE

Program	One Time Charges		Per Semester			
	Admission Fee	Caution Money(Refundable) Charges	IT Charges	Misc. Charges	Lab Charges (Per Credit Hour)	Tution Fee (Per Credit Hour)
BE(Mechanical)	15,000	10,000	5,000	6,500	13,750	4,600
BE(Civil)	15,000	10,000	5,000	6,500	13,750	4,600 (25% scholarship in Tuition Fee for all students)
BE(Electrical)	15,000	10,000	5,000	6,500	9,000	4,600 (25% scholarship in Tuition Fee for all students)
BS(Computer Science)	15,000	10,000	5,000	6,500	10,000	4,600 (25% scholarship in Tuition Fee for DCK Campus only)
BS(Artificial Intelligence)* To be offered at DCK Campus	15,000	10,000	5,000	6,500	10,000	4,600 (25% scholarship in Tuition Fee for all students)
BS(Cyber Security)* To be offered at DCK Campus	15,000	10,000	5,000	6,500	10,000	4,600 (25% scholarship in Tuition Fee for all students)
BS(Data Science)* To be offered at Main Campus	15,000	10,000	5,000	6,500	10,000	4,600 (25% scholarship in Tuition Fee for all students)
BS(Software Engineering)	15,000	10,000	5,000	6,500	10,000	4,600
BS (International Relations)	10,000	5,000	5,000	6,500	-	4,000 (25% scholarship in Tuition Fee for all students)
BS (English)	10,000	5,000	5,000	6,500	-	4,000 (25% scholarship in Tuition Fee for all students)
BS (Psychology)	10,000	5,000	5,000	6,500	-	4,000 (25% scholarship in Tuition Fee for all students)
BBA	15,000	10,000	5,000	6,500	-	4,600
BS (A&F)	15,000	10,000	5,000	6,500	-	4,600
MBA	15,000	10,000	5,000	6,500	-	4,600
MS/ME	15,000	10,000	5,000	6,500	-	4,600
PhD	15,000	10,000	5,000	6,500	-	4,600

Programs	1st Semester Fee Amount	Sem Fee (Without Adm & C/ Money)	Credit Hours 1st Semester
BE(Mechanical)	151,300	126,300	13 + 4
BE(Civil)	129,450	121,650	11 + 4
BE(Electrical)	115,250	90,250	15 + 3
BS(Computer Science) (Main Campus)	125,500	100,500	15 + 2
BS(Computer Science) (DCK Campus)	108,000	83,250	15 + 2
BS(Artificial Intelligence) (To be offered at DCK Campus)	108,000	83,250	15 + 2
BS(Cyber Security) (To be offered at DCK Campus)	108,000	83,250	15 + 2
BS(Data Science) (To be offered at Main Campus)	108,000	83,250	15 + 2
BS(Software Engineering)	130,100	105,100	16 + 2
BS(International Relations)	77,500 (with 25% scholarship in Tuition Fee for all students)	62,500	17 + 0
BS(English)	77,500 (with 25% scholarship in Tuition Fee for all students)	62,500	17 + 0
BS(Psychology)	77,500 (with 25% scholarship in Tuition Fee for all students)	62,500	17 + 0
BBA	110,100	85,100	16 + 0
BS(Accounting and Finance)	110,100	85,100	16 + 0

Semester	BBA/BS(A&F)		BS (CS)		BS (SE)		BS (PSY)		BS (IR)		BS (ENG)		BE (EE)		BE (ME)		BE (CE)	
	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.	Theory Cr. Hr.	Lab Cr. Hr.
I	16	-	15	2	16	2	17	0	17	0	17	0	15	3	13	4	11	4
II	18	-	15	2	17	1	17	0	17	0	17	0	14	3	14	4	12	5
III	18	-	15	2	15	1	18	0	18	0	18	0	15	3	15	3	11	5
IV	18	-	15	1	14	3	18	0	18	0	18	0	15	3	14	4	18	1
V	18	-	15	1	14	2	18	0	18	0	18	0	15	3	15	1	13	4
VI	18	-	15	2	18	0	18	0	18	0	18	0	15	3	16	2	14	3
VII	18	-	17	-	12	3	15	0	15	0	15	0	14	4	11	5	11	6
VIII	12	-	14	-	9	3	15	0	15	0	15	0	11	4	10	5	14	4

NOTE:

- 25% scholarship in Tuition Fee for all students of BE Electrical, BS Data Science, BS Psychology, BS English, BS International Relations offered at DSU Main Campus besides BE Civil Engineering, BS Artificial Intelligence, BS Cyber Security and BS CS being offered at DSU DCK Campus only
- * 80% and above marks in Intermediate 50% discount (subject to maintaining 3 CGPA) in BS Artificial Intelligence, BS Cyber Security & BS Data Science
- * 70% to 79.99% marks in Intermediate 40% discount (subject to maintaining 3 CGPA) in BS Artificial Intelligence, BS Cyber Security & BS Data Science
- * 50% and above marks in Intermediate 25% discount (subject to maintaining 3 CGPA) for all Computer Science Department programs offered at DCK Campus

http://download1.fbr.gov.pk/Docs/20137221474217199201 3CIRCULAR06.pdf

Scholarships and Fee Concessions

Scholarships are part of DSU's commitment to reward academic excellence and enabling students from all backgrounds to realize their potential.

DSU practices a need-blind policy and believes in merit as the sole criteria for admission to its programs. The Scholarships Award Committee (SAC) aims to select deserving students in order to assist them with their educational expenses. DSU awards three types of scholarships, namely:

- **Need-Based Scholarship**
- **Merit-Based Scholarship**
- **DHA Scholarship**

Need-based Scholarships

These are awarded to students with financial constraints with good academic standing to help them continue their education at the University. Students must apply on the prescribed form by the closing date in the begining of every semester if they wish to avail themselves of the Need-Based Scholarship. Form and guidance can be obtained from Admissions and Registration offices.

Merit-Based Scholarships

These are awarded to academically outstanding students who have excelled in studies at the University.

DHA Scholarship

(For MBA Program Only)

DHA scholarship of upto 100% of the tuition fee on CGPA of 2.5/4.0 to 4.0/4.0 will be offered on pro-rata basis to existing undergraduate students of all programs within DSU to continue education at postgraduate level in the Department of Management Sciences. Also additional 50% concession is offered in the remaining tuition fee to the serving / retired Armed Forces personnel, DHA employees and their spouses and dependent children.

(Special Scholarships for MS/ME and PhD Programs)

Limited scholarships with 50% waiver in Tuition Fee for MS and PhD students with CGPA 3.00 in semester system or 70% marks in case of annual examination in last degree or distinction holders, from HEC recognized Universities.

Full tuition fee waiver for limited number of DSU faculty members.

*(Terms and Conditions apply)

Interest Free Loan from Ihsan Trust

DSU has also signed an MOU with M/S Ihsan Trust to facilitate needy students in getting interest-free loans from Ihsan Trust. Details can be obtained from Admissions and Registration offices.

Fee Concessions

A concession of 50% in Tuition Fee is admissible to all regular faculty members, officers and employees of DHA and DSU for themselves, their spouses and their dependent children, subject to the condition that they compete with others at the time of admission and come in the merit list. Application for Fee Concession is processed through Scholarships Award Committee.

Fee concession continues subject to achieving a semester GPA of 2.0/4.0, otherwise Fee concession is withdrawn in the following semester and is restored in subsequent semesters only if the student succeeds in achieving a semester GPA of 2.0 or above.

Students must refer to the DSU Student Handbook for detailed rules pertaining to application and qualification for scholarships and fee concessions.

Apply Now to Experience What DSU has to Offer

Students should contact DSU Admissions Office for all information related to programs, eligibility requirements, admissions schedule and fee details. The Admissions Officers can be contacted at:

Admissions Officer
Phone: 021-35244851- 52
Cell: 0324 2444595
Email: info@dsu.edu.pk

External Students

The University permits enrolment as an external student in any course being offered as part of any degree program, on payment of prescribed fee and meeting the eligibility criteria of the course, following the specified procedure. An external student will be issued a certificate on successful completion of the course. If such a student later enrols in a degree program the credits earned as External Student may be used to satisfy the degree requirements provided he/she, if eligible, enrols in the degree program within two years of earning the credit.

Application Process

1 Check Eligibility

Check your eligibility through the DSU website, prospectus, program brochures or Admissions Office.

Candidates awaiting results are eligible to apply. All selected candidates shall be granted provisional admission on signing of an undertaking and subject to verification of the Board Results.

2 Apply Onlline

Visit www.dsu.edu.pk. Fill and submit the Admission Application Form online.

Note: Students applying to study MS and Doctoral degree programs should directly email the relevant department at:

info.me@dsu.edu.pk	(Mechanical Engineering)
info.ee@dsu.edu.pk	(Electrical Engineering)
info.cs@dsu.edu.pk	(Computer Science)
info.ms@dsu.edu.pk	(Management Science)
OR	
info@dsu.edu.pk	(Admissions Office)

3 Form Submission & Payment

Stage 1: Application Submission Process
Option I
Online Application Submission Process

- Go to the website
- Choose your degree program and read admission criteria / eligibility
- Know the critical dates
- Fill out your application : http://admissions.dsu.edu.pk/apply/apply_online.php
- Upload your required documents (scanned) and submit your application online
- Receive an e-voucher via SMS and email with a unique payment/ transaction ID. By using the ID communicated via SMS and Email, you can easily make the payment through various channels which include:
    1. Online Banking
    2. Over the counter cash payment at TCS / SilkBank / Meezan Bank & Al-Barka Bank
    3. Through mobile app including Easypaisa & Keenu
- Receive an e-admit card notifying test date & time

Option II (Not available due to current Covid-19 pandemic situation)
Courier or self-submission to Admissions Office

- Go to the website
- Choose your degree program and read admission criteria / eligibility
- Know the critical dates
- Fill out your application : http://admissions.dsu.edu.pk/apply/apply_online.php
- Courier or submit the documents and processing fee (pay order) to the Admissions Office at DSU.
- Receive the admit card notifying test date & time

Stage 2: Test & Result

- Appear in computer-based admission test and admission selection interview (if applicable)
- Receive and print out your Notification of Selection Result

Stage 3: Admission Offer & Submission of Fee

- Receive an offer letter, supporting documents and payment voucher
- Submit the admission acceptance along with the required documents and payment draft / pay order in the name of 'DHA SUFFA UNIVERSITY' at the DSU Admissions Office

Note:
It is responsibility of the candidate to provide all the documents and if at any stage the documents are found to be fake/forged the university will have the right to take disciplinary action which may lead to cancellation of admission.

List of Required Documents

- Matriculation / O-Level / Equivalent Marks Sheet / Statements and Certificates
- Intermediate / Equivalent / A-Level Marks Sheet / Statements and Certificates
- Applicants with O-Level / A-Level and Technical studies must submit equivalence from IBCC
- College Provisional Certificate
- A copy of CNIC and B-Form
- 3 passport-sized photographs with white background
- Admit Card / Statement of Entry is required, if awaiting result

OPTIONAL:
Engineering and CS /SE Program Eligibility:
Valid Test Score of NEDUET, NTS NAT (IE/ICS) or SAT II, if appeared. Applicants submitting their NEDUET (current year), NTS NAT (IE/ICS) or SAT II test scores obtained within last one year shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NEDUET/ SAT/ NTS scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.
BBA/ BS AF/BS IR/ BS English Program Eligibility:
Valid test scores of NTS or SAT I if appeared. Applicants Submitting NTS or SAT I test scores obtained within last one year shall be exempted from taking DSU's entrance test. However, candidates who do not have good enough NTS or SAT I scores will be advised to appear in the DSU Admissions Test for better chances of securing admission.

Applicants who submit NEDUET, NTS NAT (IE/ICS) or SAT II (for BE ME, BE EE and BS CS) and NTS NAT (ICOM/IGS) or SAT I (for BBA / BS Accounting & Finance) test scores obtained within last one year can be exempted from taking DSU's entrance test. However, Candidates who do not have good enough NEDUET / SAT/ NTS scores will be advised to appear in the Test for better chances of securing admission.

4 DHA Suffa University Entrance Test

Appear in DSU Entrance Test on the date notified by the Admissions Office.

Each eligible candidate may appear in DSU Entrance Test 3 times in order to improve his/her test score. The fee for each attempt is 1000/- PKR (non-refundable)

5 Await Admission Offer

Assessment of your application requires 1-2 weeks.

If additional documents are required to assess your application, they will be requested from you.

6 Acceptance of Offer

If offered Admission, collect provisional Offer Letter and Fee Challan from the Admission Office.

Read your Offer Letter carefully, ensuring your name, program title and semester are accurate.

Meet all pre-requisites mentioned in your Offer Letter. Deposit prescribed fee to the Accounts Office at DHA Suffa University through a pay order in the name of **'DHA SUFFA UNIVERSITY'.**

Submit a photocopy of the payment receipt to the Admissions Office at **DHA Suffa University**.

Find out more about
DHA SUFFA UNIVERSITY

www.dsu.edu.pk

/lifeatdsu

/dha.suffa

/dsu_official

DHA SUFFA UNIVERSITY
Learn to discover at Pakistan's fastest growing university

For further information:

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Telephone: 021 35244851-53
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