

# CECOS

UNIVERSITY

Business  
Engineering  
Architecture  
Biotechnology  
Pharmacy  
Computer Science  
Health Sciences  
Basic Sciences



CECOS

**36** YEARS  
OF QUALITY EDUCATION

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# MESSAGES

Vision & Mission

Quality Policy

President's Message

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Dean Student Affairs' Message



## OUR VISION

To be the leading hub of academic excellence and innovation, and to address global challenges of today and tomorrow.

## OUR MISSION

To nurture an intellectually stimulating environment that provides rich and holistic educational programmes with world-class research and innovation to produce highly skilled graduates with a strong moral character. We take great pride in contributing to society through the pursuit of our distinctive commitment to ethics, tolerance, social responsibility and academic freedom.

## QUALITY POLICY

CECOS University is committed to providing high quality education services of international standards with a vision of achieving excellence in teaching and research. Our aim is to produce knowledgeable individuals with good moral character who are well prepared to face future challenges in various fields including Architecture, Business Management, Computer, Engineering and Life Sciences.



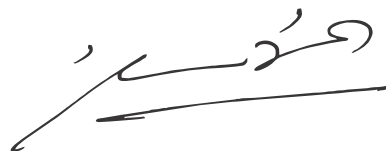
## PRESIDENT'S MESSAGE

We are witnessing enormous changes in the economy of the world in which the educated youth is playing vital role. With the aim to develop the economy of our country, the higher education institutions should continue to endow with highly talented human resources. CECOS University is fortunate to have highly qualified staff members, possessing vast experience, knowledge and wisdom in their relevant fields. I am sure that we will be able to overcome the national economic crisis we are currently facing and that CECOS will play a pivotal role in developing the economy of our country by producing highly qualified & skilled graduates.

Being a private sector university, CECOS University is playing an important role in supplementing the Government's efforts to meet the growing demand of education of our people particularly in the under-developed areas. CECOS University is determined not to compromise on quality of education at any cost and with this endeavor, we focus our full attention towards taking all necessary measures for bringing about continued improvements in our overall standard of education.

I am confident that CECOS University will make all possible efforts to provide a unique educational environment with the following objectives:

- Develop potential and talents of those young men and women who are committed to achieving professional excellence and who have the courage, confidence and spirit to bring about change in our society.
- Inculcate a deep feeling of patriotism among students and endeavor to prepare professionals endowed with fear of Allah, the Almighty.
- Modernize the present system of professional management and make substantial contribution towards the development of socio-economic structures in Pakistan.
- Achieve technological excellence in the areas of Engineering, Information Technology and Biotechnology.
- Raise standards of professional education in order to achieve excellence and to accept this as a sacred duty with a conviction of accountability to The Almighty Allah.



**Engr. Muhammad Tanveer Javed**  
President





## VICE CHANCELLOR'S MESSAGE

I feel honored to welcome you on behalf of CECOS University of IT & Emerging Sciences, which has evolved into one of the region's leading private sector higher educational institutions. The University offers an excellent learning environment for students in its purpose-built campus that houses air-conditioned classrooms, well-equipped laboratories, and library facilities.

Our approach of putting our 'student at the heart of everything we do' has formed an exceptional student experience and delivered the highest level of teaching and learning. Our goal is to produce graduates who are not only knowledgeable but also honest, tolerant, and socially responsible human beings with excellent moral values. We expect our graduates to further their careers at top-tier institutions or work independently as successful entrepreneurs.

CECOS University strives to provide a rigorous academic experience to all its students. Regardless of their degree program, our highly

competent faculty members encourage students to think and communicate their ideas clearly but also facilitate them in sharpening their logical reasoning and problem-solving skills. We believe in experiential learning that promotes a rational understanding of how experiments in life sciences and engineering disciplines are designed and how the generated data is analyzed and communicated.

We are proud of our commitment to widening participation, world-leading research, public and private sector collaborations. Our history of providing quality student experiences has resulted in graduates who are the tomorrow-makers of our societies and economies.

In line with our Quaid's vision, we fervently believe in Unity, Faith, and Discipline, which cannot be achieved without honesty, integrity, and devotion to duty.

If you wish to experience educational excellence, I invite you to join us!



**Dr. Naseer Ahmed**

Vice Chancellor





## REGISTRAR'S MESSAGE

In my capacity as University Registrar, I welcome you to CECOS University of IT & Emerging Sciences on behalf of the University community. CECOS is a multi-disciplinary University providing an excellent environment conducive to learning, research, and innovation under the supervision of highly qualified/ experienced and motivated faculty. As a matter of fact, I congratulate you on making a very positive choice in becoming a student as well as a member of CECOS family. Here, at CECOS, it's the beginning of a brand new chapter in your life's journey and indeed this is your opportunity to prove your worth.

Here at CECOS, we believe in empowering students with a strong knowledge-based and quality standard of higher education in a holistic and multidimensional manner encompassing all

theoretical, applied, and conceptual aspects by maintaining the exclusiveness of the discipline. Apart from your educational endeavors, the Career Development Centre (CDC) of the university would guide you in ascertaining your future career paths through an array of activities and workshops.

Just to inform you that my office is responsible for coordinating the activities of the student lifecycle from admissions and enrolment until graduation and facilitating the activities of the University's governing bodies and the respective committees to ensure the effectiveness of and efficiency in the University's system of governance.

We assure you of our best service and cooperation for all times but remember that this is your time to shine.



**Mr. Khurshid Qasim Marwat**

Registrar





# DEAN STUDENT AFFAIRS MESSAGE

Dear Students,

As founding Dean of the recently established Office of Student Affairs (OSA), and it is my pleasure to extend the warmest of welcomes to all students of CECOS University and particularly to those who become part of the CECOS family in Fall 2020. The mission of OSA is to facilitate students in every possible way in the most efficient manner. Thus all activities including admissions, financial aid, obtaining of transcripts, clearance, maintenance of student records, adding or dropping courses, career advising and development, as well as student society-led events fall under the umbrella of OSA.

OSA is comprised of a talented team of well-trained professionals who are there to ascertain that all student requests are processed in a timely manner.

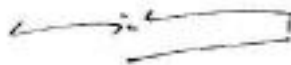
The beginning of a new academic year is invariably an exciting time for all students as they embark on

a path full of promise, hope and of course new learning. OSA is committed to working with you and addressing your needs as and when they arise.

CECOS University has outstanding faculty, caring staff and provides an atmosphere conducive to learning be it online or on-site. We encourage all students to join one or more of our very active societies that include Sustainable Community Services, Entrepreneurial & Start-up Initiatives, Arts & Heritage, Health & Wellbeing, and Better World.

We expect our students to study hard, make new friends, get involved with personality building extracurricular activities, and in doing so having fun. I hope that all students will make every effort to make good use of the time they spend at CECOS.

I wish you all a healthy, happy and productive academic year, and I look forward to meeting you soon.



**Saim Safer, PhD**

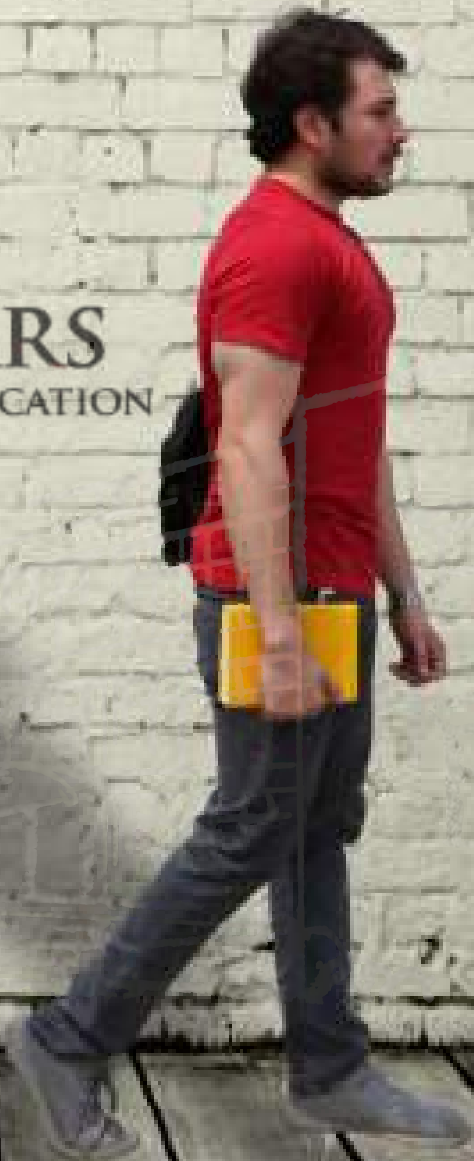
Dean Student Affairs



# ABOUT CECOS

History  
Accomplishments  
Precision Medicine Lab  
Peshawar Light Engineering Center  
International Programmes  
Early Years & Primary Education  
Administration  
Board of Governors

**36** YEARS  
OF QUALITY EDUCATION





## HISTORY

For the past 36 years, CECOS Educational Institutions have been a proud and continuous source of guidance and support to more than thirty-nine thousand students. CECOS graduates have gone on to develop successful careers in various disciplines including Engineering, Business Management, Computer Science, IT, Architecture, and Life Sciences.

The origins of CECOS University date back to 1986, when our founder and President Engr. Muhammad Tanveer Javed initiated a small, private institution - CECOS Data Institute-in Peshawar. At that time, CECOS Data Institute (CDI) only housed five computers and a handful of students. In its first year, CDI designed a one-year diploma course in Computer Science, which was approved by the Board of Technical Education (BTE) for immediate implementation in KP (previously NWFP).

Eventually, the institute became affiliated with the University of Peshawar, becoming the premier college to offer postgraduate courses in Computer Science, as well as specialized computer courses from the University of London. Today, by the Grace of the Almighty, and the determination of the founders, CECOS University has over three thousand students enrolled in its various undergraduate and graduate programs.

Realizing the need to integrate computer science with business education, CECOS steadily moved forward by establishing a private College of Commerce in Peshawar in 1987, which was the first-ever private commerce college in the city. The College offered courses for B.Com-I and II in affiliation with the University of Peshawar and D.Com/DBA courses in affiliation with the Board of Technical Education.

Subsequently, in 1994 CECOS also established its first campus in Hayatabad - CECOS Data College - where degree programs of BSIT, MIT, BCS, MCS, BBA, and MBA were introduced. CECOS Data College was also authorized to be an "Action Learning Centre of Software Development" by UGC (now HEC) and the Ministry of Communication authorized CDC to award postgraduate diplomas in software development (in affiliation with the University of Peshawar).

During that same year, the prestigious Institute of Cost & Management Accountants of Pakistan (ICMAP) declared CECOS Data College as their Peshawar Centre. CECOS has the honor of being the first institute to offer Post-Master professional IT-oriented courses in Management Accountancy to students in Peshawar and KP. Prior to this, the ICMAP-enrolled students had to travel to Islamabad, Lahore, and Karachi for these professional courses.

In 1996, the College of Engineering and Information Technology was established to introduce Communication and Civil Engineering programs. Later, the College also became affiliated with the KP (previously NWFP) University of Engineering and Technology to offer B.Sc courses in Civil and Electrical Engineering.

Besides these institutions, CECOS also achieved a milestone when it established an international campus, CECOS London College of IT and Management in 1998. CECOS London College is registered under UK laws to facilitate credit transfer of CECOS students to American and European Universities, market software and technology developed at CECOS & conduct diploma, advanced diploma, Undergraduate & Master's programs in IT, Business Management, and Accounting. All courses offered at CECOS London College are fully accredited by the relevant accreditation body of UK.

CECOS achieved another landmark in the year 2001 with the launch of the CECOS IT Park Project. The project was launched with the aim of providing the resources and facilities to students needed for the development of software and to capture the international software market.

In 2001, the Government of KP (previously NWFP), after realizing the dedicated and zealous efforts of CECOS Educational Institutions in imparting quality and professional education, granted CECOS a 'Charter for University' under the name of "CECOS University of Information Technology and Emerging Sciences". This Charter was promulgated via Ordinance No. XXI of 2001 and CECOS University is recognized by the Higher Education Commission and the Government of Pakistan.

Today, CECOS University is proud to hold a Category W3(W\*\*\*) status (W4 being the highest category) with the HEC. The Civil, Electrical, and Mechanical Engineering degree programs at CECOS are accredited by the Pakistan Engineering Council for OBE level-II. The University is housed in three owned campuses, comprising over 90 kanals of land and a further 300 kanals acquired for CECOS University Islamabad Campus, and one campus on rented premises. The education, environment and modern facilities provided to the students not only provide an academically conducive environment but also cater for innovation, research, co-curricular and extracurricular activities.

We have and will continue to strive towards greater goals in the Education sector, polishing the youth of today and guiding them towards their ambitions, so that they may represent Pakistan in local and international arenas.

# ACCOMPLISHMENTS

- With a combined total of 90 kanals of land, CECOS University branches off into three, well-established campuses. The environment is academically conducive, while also diverse enough to facilitate and promote various co-curricular and extra-curricular activities. CECOS has acquired another 300 kanals to establish a full-functioning campus in Islamabad.
- From humble beginnings in a small, rented office, CECOS University has evolved as a top-tier education provider in KP.
- CECOS was granted a Charter by the Government of NWFP (now KP) for the establishment of CECOS University in 2001.
- CECOS University is proud to hold a Category W3(W\*\*\*\*) status (W4 being the highest category) with the Higher Education Commission, Islamabad.
- More than thirty-nine thousand (39000) students have benefitted from CECOS Educational Institutions and have been successful in securing employment and building careers at government, academic and corporate institutions, both in Pakistan and abroad. Currently, over 3000 students are enrolled in different disciplines at CECOS University and affiliated institutions.
- CECOS University is a major employer in the education sector, with over 300 employees working full-time or part-time. The University remains just and unbiased in its position as an employer, hiring individuals without any discrimination of gender, color, race, ethnic background, or religion. CECOS continues to encourage and appreciate excellence, providing merit scholarships to outstanding students as well as to those who hail from less fortunate backgrounds.
- CECOS College London, the training component of CECOS Computing International Ltd. UK (1998), continues to successfully enroll and train international students.
- CECOS has been approached by well-known and reputed overseas organizations for joint ventures or limited partnerships in the field of Information Technology.
- CECOS was selected for establishing a CISCO Networking Academy, the only one in KP, by the Federal Ministry of Science & Technology (MoST).
- The Electrical, Civil & Mechanical Engineering programs of CECOS University have been accredited by Pakistan Engineering Council (PEC) for OBE level-II. CECOS has the honor of being the first private sector university of Khyber Pakhtunkhwa to offer accredited engineering programs. The Computer Science program at CECOS University is fully accredited by the National Computing Education Accreditation Council.
- CECOS University has been offering the Bachelor of Architecture program since 2007 and has the privilege of being the first university to offer an architecture program in the private sector in Khyber Pakhtunkhwa. The B. Arch program is duly accredited by the Pakistan Council of Architects and Town Planners (PCATP).
- CECOS University launched Doctor of Pharmacy degree program with state-of-the-art laboratories and research facilities in 2020. The Pharm-D program at CECOS is approved by the Pharmacy Council of Pakistan.
- CECOS University introduced the Masters of Engineering program in Civil & Electrical Engineering in 2009 and MS Mechanical Engineering program in 2014. Ph.D. programs in Civil and Electrical Engineering were launched in 2013.
- For the establishment of strong industrial linkages and maintaining close and sustainable academia-industry interactions, CECOS University established the “CECOS Industrial Liaison Center (CILC) in the Industrial Estate. With high-end workshops and laboratories for electrical, electronics, mechanical, and micro-processing / communication engineering, these facilities are essential to achieve the professional goals of our University-Industry linkage programs.
- CECOS is one of the first private sector universities to set up a dedicated Industrial Liaison Centre for practical, field-oriented training of engineering graduates.
- The aim of the CILC is to strengthen the long-term relationship between corporate entities and academia. This collaboration will not only anticipate and adapt to technological changes but will also help us assume a proactive position at the leading edge of technology.
- CECOS University has been designated as an approved Centre of Pakistan Engineering Council to offer Continued Professional Development (CPD) courses and to conduct professional seminars under the CPD program.
- CECOS University takes pride in its accredited staff of highly qualified and dynamic professionals, including foreign qualified PhD and MS degree holders.
- CECOS University has been actively engaged in cutting-edge, innovative research. Our faculty and students have published numerous research papers, textbook chapters, and reports in internationally recognized journals.
- CECOS University also boasts a dedicated Office of Research, Innovation & Commercialization (ORIC) and Quality Assurance / Enhancement Cell that oversees the quality of teaching as well as research.

- CECOS University has signed MoUs with several universities, industries and other organizations. The main purpose of these MoUs is to establish a collaborative platform to work for mutual benefits to strengthen cooperation in the fields of engineering, sciences and emerging technologies.
- CECOS University signed a Memorandum of Understanding with National Incubation Centre (NIC), Peshawar, to facilitate the development of an entrepreneurship & startup ecosystem, in hopes of promoting and encouraging the bright youth of the province to confidently tackle the problems of today's world. The MOU was signed at Peshawar in the presence of the Prime Minister of Pakistan, the Governor of KP, and federal ministers.
- CECOS signed an MoU with the District Administration for the beautification project of Peshawar, helping to support the cause.
- CECOS University and Institute of Management Sciences (IMISciences), Peshawar signed a Memorandum of Understanding to launch a Joint Centre for Bioeconomy, a first of its kind center in the country that bridges the gap between biotechnology, business, and economics.
- CECOS University has signed an MOU with Huawei ICT Academy at Huawei UET Joint Telecom IT Center, UET Lahore. Under this MoU, Huawei ICT Network Academy will provide training in Routing, Switching, and Network Security to CECOS University faculty.
- CECOS University signed an MOU with Northwest General Hospital to develop academic and educational cooperation in health sciences, particularly the Doctor of Physical Therapy program and to promote mutual understanding between the two institutions.
- Career Development Centre (CDC) of CECOS University signed an MOU with the STEKOM University of Indonesia. Both institutions agreed to have an international collaboration to co-organize webinars with its partner universities from China, Turkey, Cyprus, Mexico, Uganda, Ethiopia, Georgia and Serbia. Both the institutions also agreed to host mutual student/faculty exchange and development programs and distance teaching programs in the future.
- CECOS has taken a lead role in synthetic biology and bio-entrepreneurship in the province and has worked closely with the government for the SynBioKP program.
- CECOS University participated in the iGEM (International Genetically Engineered Machines) World Championships held in 2016 and 2017 in Boston, USA. CECOS teams were awarded a bronze medal in 2016 and a silver medal in 2017, a milestone in the list of achievements, competing against 300 international teams. In the 15-year history of the competition at MIT, this was the first time a team represented Pakistan.
- The University Advancement Cell and CECOS Alumni Association "CECOSIANS" continue to strengthen the bond between the university and its alumni
- A Placement Bureau has been established to bridge the gap between CECOS, industry, and its alumni. Additionally, the Tech Entrepreneur Centre provides an opportunity to students in initiating their own start-ups with the help of CECOS resources.
- In 2015, CECOS University unveiled KP's first Waste to Energy Power Plant. The project was sponsored by the Directorate of Science & Technology (DoST), KP, and CECOS ORIC and is the first-ever power plant that uses solid waste to generate electricity.
- Students of CECOS University have successfully designed and built a working prototype of a solar-powered rickshaw. The environment-friendly rickshaw is completely automatic and can attain speeds of up to 40 kilometers per hour.
- The Technology Upgradation and Skill Development Company (TUSDEC), Federal Ministry of Industries and Production is working with CECOS Industrial Liaison Center for the establishment of Peshawar Light Engineering Centre (PLEC)
- Times Higher Education (THE) rankings, which assess universities on global performance against the United Nations Sustainable Development Goals (SDGs), has ranked CECOS University in the 601+ mark making it on par with the University of Lahore and Quaid e Azam University.
- In an unprecedented event, two private institutions (CECOS University and RMI) have joined hands and established the cutting-edge Precision Medicine Lab (PML) at CECOS University and Rahman Medical Institute. The lab is an affiliate lab of the National Center for Big Data and Cloud Computing and is funded by the Higher Education Commission of Pakistan.
- CECOS University in collaboration with The Enlight Lab, Global Shapers Peshawar Hub and other NGOs hosted the International Women Day on March 08, 2021. International Women's Day is celebrated annually on March 8 to commemorate the cultural, political, and socioeconomic achievements of women.
- CECOS University strongly believes in contributing to society and the country at large by providing its intellectual resources for the welfare of the state. Our competent staff and faculty members have a long history of contributing to public policies



# ACCOMPLISHMENTS

and assisting the government, corporate and private sectors with their professional services. Mr. Danyal Hayat - Deputy Director at CECOS Career Development Centre, one of the thirty-three young leaders selected from all over Pakistan as member of National Youth Council, a project of the Prime Minister's Kamyab Jawan Program.

- The Office of Research Innovation and Commercialization (ORIC) has partnered with the Creative Innovative Unit for a training on Harvard University's LabXchange. LabXchange is an online community for learning, sharing, and collaboration that curates and creates world-class digital content, and delivers it on a free, online platform that lets Biological sciences students integrate their learning and research experiences.
- Mr. Danyal Hayat - Deputy Director at CECOS Career Development Centre has been selected by Islamic World Educational Scientific and Cultural Organization (ISESCO) for the prestigious Leadership Training in Peace and Security (LTIPS). CECOS University alumni makes us proud internationally. CECOS University Alumnus Engr. Adnan Khan secured a Gold Medal in Master's in Mechanical Engineering degree with distinction from Qatar University. He was presented the Gold Medal by His Highness the Emir of Qatar, Sheikh Thamim bin Hamad Al Thani

for his academic achievement as well as the Best Thesis Award from the President of Qatar University, Dr. Hassan Rashid Al-Derham. Engr. Adnan is a graduate of CECOS University in Mechanical Engineering.

- Our graduates continue to do us proud by working towards innovative solutions for local problems. Muhammad Afaq (B.Sc. Computer Science Batch 2016-2020) (CEO Avance Robotics) for launching Agricultural drone for spraying pesticides, disinfectants, as well as delivery drones for delivering medicines and to also promote contactless food delivery system. They also launched Smart Home system through which complete home can be controlled anywhere around the world with help of internet. Furthermore, working on Smart Electric Bike as well as Smart Agricultural system and scanner drones.
- Zohaib Khalid, a 22-year-old software engineering student of CECOS University has consistently been the best FIFA player in the country for the past eight years. He has won over a hundred local tournaments, including FIFA Masters. His achievements in the local arena, coupled with his performance in online tournaments, turned many heads and even brought about a trial from a gaming team based in Paris.



## STUDENT **ACHIEVEMENTS AND HONOURS**







## Precision Medicine Lab

The Precision Medicine Lab is a joint initiative by CECOS University and Rehman Medical Institute. Located at the heart of the dense Phase-V Biomedical cluster in Hayatabad, Peshawar, the lab is an affiliate of the prestigious National Centre for Big Data and Cloud Computing (NCBC) hosted by the Project Secretariat at LUMS and supported by the Federal Government of Pakistan through the Higher Education Commission in Islamabad. It aims to develop integrated genomic and health datasets and use computational methods to help improve individual patient outcomes, especially in cancer, and to improve development of new drugs and to provide enabling technology for drug combination studies and targeted drug delivery.

The Lab is a cross-disciplinary and translational research laboratory that uses cutting-edge technology at the intersection of data, biology and medicine to improve individual patient outcomes in the clinic. It allows data analysts and deep learning experts to work very closely with biologists, geneticists and clinicians to leverage the power of genome-scale datasets, big data from the hospital and machine learning to improve cancer patient outcomes.

### MISSION:

“To glean every single data point available, to optimize, cancer treatment and minimize ineffective treatment to help every cancer patient and their household”

This is Pakistan's first concerted attempt to pilot precision cancer medicine funded by the Federal Government. The lab has an unfair advantage of being located at the heart of Phase-V biomedical cluster in Hayatabad, Peshawar – which is arguably the densest healthcare cluster in the country, attracting patients from all over the country and the broader region.

Biology is developing at a rapid pace and increasingly becoming data-driven, thanks to the exponentially decreasing cost of DNA sequencing – or our ability to read the human genome. The first human genome was sequenced in 2001 when an international coalition announced the first draft. The total project cost was close to 3 billion US dollars. The same genome can now, breathtakingly, be sequenced for almost \$1000. Genome data gives us a glimpse of our past (our pedigree and ethnic background), our present (from our wellness to our illnesses) and our future (diseases we are genetically more prone to have in the future as we age). Genome data also helps us 'personalize' medicine by understanding how different patients (of different genetic backgrounds) respond to different drugs. Adding this giant, and growing, corpus of data to digital data from hospitals (like electronic health records, images from radiology and pathology) and other new-age sources like our mobile phones, digital watches and wearable gadgets, and even digital sensors at home and at work has the potential to give us unforeseen predictive power when it comes to our health and well-being.

A recent study at the Mayo Clinic (US) has shown that there is 30% decrease in hospitalization if the patient's genomic data is used in diagnosis. Another study has shown that (in women of 50 years and above) a 37% decrease in cost of cancer treatment is observed if genomics data is available. Research has also shown that 20% of cancer patients die because of side effects of drugs and not the diseases itself. Finally, against a global cancer survival rate of about 60%, the figure in Pakistan is a mere 30%. This clearly indicates the potential healthcare as well as economic impact of genomic data and a better understanding of drug responses in patients.







## Peshawar Light Engineering Centre

Peshawar Light Engineering Centre (PLEC) has been established at CECOS Industrial Liaison Centre, Industrial Estate, Peshawar. The PLE is a joint venture of CECOS and Technology Upgradation and Skill Development Company (TUSDEC) in partnership with Asian Development Bank (ADB). The Centre is quite in line with the policy of the Government and Higher Education Commission.

This Centre is unique of its kind in terms public private partnership which is helping in bridging the gap between academia and industry. The PLEC is exclusive for KPK and others industrial resource center to upgrade skill and enhance their capacity for improving product quality by using this state of the art facility.

This Centre is providing engineering industry of KP with modern design and fabrication solutions, training, technical assistance and consultancy in product manufacturing. It is working as a (CFC) Common Facility Centre, Product Development Institute and Skill Development, Training and Designing Centre. Apart from this the Centre is also promoting technology and skill development among students and researchers of CECOS University.

### Targeted Industries:

The Centre is providing design support and maintenance, testing, certification, incubation, applied research and other support to following industries in particular:

- Rubber and Plastic Goods
- Match Manufacturing
- Metal and Metal Products
- Engineering and Electronic Goods
- Auto Rickshaw & scooters/ Motor cycles
- Hunting & Sporting Arms
- Other Metal Aluminum Products Manufacturer

### Facilities:

The following facilities are available at the state of the art PLEC:

- CNC Vertical Machining Centre (VMC)
- CNC Turning Centre
- Wire Cut
- EDM Machine
- CNC Folder Press
- CNC Pipe bender
- Coordinate Measuring Machine
- CNC Marking and Graving
- Electroplating equipment
- Tempering hardening furnace
- Salt bath furnace
- Muffle furnace
- Conventional Machining Section
- Welding Section







# INTERNATIONAL PROGRAMMES



## CECOS College London

CECOS College London is the training department of CECOS Computing international Ltd. (UK). Established in 1998, (England Reg. No.3641511) this overseas office has also been exploring the European and US markets for software development projects successfully .

CECOS College London is housed in it's own building offering various diploma and degree programmes in affiliation with different reputed and fully recognized institutions.



# EARLY YEARS & PRIMARY EDUCATION



## KGEMS DAY NURSERIES, UK

Knowledgems Nurseries a high quality standard of childcare and education to the community. Knowledgems staff is highly qualified, well supported and has regular access to further training and professional development.

The children learn through play and follow the Early Years Foundation Stage (EYFS) framework. The 7 areas of learning are:

- Communication and language
- Physical development
- Personal, social and emotional development
- Literacy
- Mathematics
- Understanding the world
- Expressive arts and design





# EARLY YEARS & PRIMARY EDUCATION



## THE EDEX SCHOOL

CECOS University, through its initiative of the Edex School, has ushered in a revolution in the private school sector in Peshawar. The school building is nestled on an expanse of 4.5 kanals that provides the perfect setting for an aesthetically chartered school building. The open lawns are marked with a colorful sprinkling of fresh floral embankments, with a separate play-area for the early years. An inspiring, Wi-Fi enabled infrastructure comprising of 30 air-conditioned classrooms, that are equipped with multimedia and smart boards, is the pride of The Edex School.

The school is host to a library, populated by a selection of books that nurture the spirit alongside the intellect and fully equipped laboratories to engage students & challenge them into developing their skill-sets. It also has a state of the art conference room, a resource centre for teachers and a discovery room (computer lab).





# MEETING FUTURE REQUIREMENTS AND CHALLENGES



Site For CECOS, Islamabad Campus



CECOS Industrial Liaison Center

# ADMINISTRATION

<b>Engr. Muhammad Tanveer Javed</b> President	<b>Engr. Sohaib Tanveer</b> Vice President	<b>Dr. Naseer Ahmed</b> Vice Chancellor
<b>Prof. Dr. Azzam Ul Asar</b> Dean Postgraduate Studies	<b>Prof. Dr. Irfan Ullah</b> Dean Faculty of Engineering	<b>Dr. Fazal Subhan</b> Dean Faculty of Life Sciences
<b>Dr. Saim Sahar</b> Dean Student Affairs	<b>Dr. Ali Sayyed</b> Dean ODL Management Office	<b>Mr. Khurshid Qasim Marwat</b> Registrar
<b>Mr. Ashok Kumar</b> Deputy Registrar, Establishment	<b>Mr. Muhammad Rauf</b> Deputy Registrar, Academics	<b>Miss. Saima Hassan</b> Manager, Human Resource
<b>Mr. Muhammad Aamir Aziz</b> Controller of Examinations	<b>Mr. Muhammad Imran</b> Deputy Controller of Examinations	<b>Mr. Muhammad Amjad</b> Deputy Controller of Examinations
<b>Major (R) Noor Muhammad</b> Deputy Controller of Examinations	<b>Engr. Col. (R) Ashfaq Ahmad</b> Director Welfare	<b>Mr. Suhail Anjum</b> Director, CDI
<b>Dr. Abid Ahmad</b> Director, QEC	<b>Mr. Abdul Hanan</b> Director, ORIC	<b>Mr. Rustam Ali Nasir</b> Director, Finance

<b>Engr. Zia-ur-Rehman</b> Manager Admin & Works	<b>Sayyed Ahmad Waleed</b> Marketing Manager
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<b>Dr. Cedric Aimal Edwin</b> Head of Department Management Sciences	<b>Dr. Muhammad Tariq Bashir</b> Head of Department Civil Engineering	<b>Dr. Fazal Subhan</b> Head of Department Pharmacy
<b>Ms. Farkhanda Tayyab</b> Academic Coordinator Management Sciences	<b>Engr. Nasrullah Aziz</b> Academic Coordinator Department of Civil Engineering	<b>Miss. Shehla Akbar</b> Academic Coordinator Department of Pharmacy
<b>Dr. Muhammad Waqar Aziz</b> Head of Department Computer Science	<b>Dr. Azhar Qazi</b> Head of Department Electrical Engineering	<b>Dr. Eiman Sumayyah</b> Head of Department Allied Health Sciences
<b>Mr. Attiq ur Rehman</b> Academic Coordinator Department of Computer Science	<b>Dr. Zaheer Farooq</b> Academic Coordinator Department of Electrical Engineering	<b>Mr. Abdullah</b> Academic Coordinator Allied Health Sciences
<b>Dr. Nudrat Aamir</b> Head of Department Basic Sciences & Humanities	<b>Dr. Muhammad Shakil</b> Head of Department Mechanical Engineering	<b>Dr. Akhtar Nadhman</b> Head Institute of Integrative Biosciences
<b>Syed Ibrahim</b> Academic Coordinator Department of Basic Sciences & Humanities	<b>Engr. Muhammad Irfan Khan</b> Academic Coordinator Department of Mechanical Engineering	<b>Mr. Muhammad Aamir Wahab</b> Academic Coordinator Department of Biotechnology
	<b>Ar. Adnan Ahmad Khan</b> Head of Department Architecture	
	<b>Ar. Inayat Ullah</b> Academic Coordinator Department of Architecture	

## BOARD OF GOVERNORS

<p><b>Engr. Muhammad Tanveer Javed</b> President, CECOS University</p>	<p><b>Justice (R) Mhammad Ayub Khan</b> Nominee of Chief Justice Peshawar High Court</p>
<p><b>Engr. Sohaib Tanveer</b> Vice President, CECOS University</p>	<p><b>Dr. Lutfullah Kakakhel</b> Former Vice Chancellor, Kohat University of Science &amp; Technology, Kohat (Nominee of President, CECOS University)</p>
<p><b>Dr. Naseer Ahmed</b> Vice Chancellor, CECOS University</p>	<p><b>Dr. Shahid Khattak</b> Vice Chancellor UET, Mardan (Nominee of Governor, Khyber Pakhtunkhwa)</p>
<p><b>Dr. Mudassir Tanveer</b> Member Board of Directors, CECOS University (Nominee of Board of Directors)</p>	<p><b>Dr. Razia Sultana</b> Shaheed Banazir Bhutto Women University, Peshawar (Nominee of President, CECOS University)</p>
<p><b>Dr. Irfan Ullah</b> Dean, Faculty of Engineering (Nominee of Vice Chancellor, CECOS University)</p>	<p><b>Dr. Saeed Mahfooz</b> Professor, Computer Science Department, UoP (Nominee of Board of Directors)</p>
<p><b>Commander (R) Jamshed Savul</b> Nominee of Board of Governors CECOS University</p>	<p><b>Chairman Higher Education Commission</b> or Nominee</p>
<p><b>Mr. Khurshid Qasim Marwat</b> Registrar, CECOS University Secretary, BOG</p>	<p><b>Chairman</b> KP Information Technology Board or Nominee</p>



GLIMPSES OF

# CONVOCAATION 2021







CONVOCATION





**LIFE AT**

# CECOS

Facilities

Student Societies

Notable Events & Seminars



**I am CECOS.  
Something new to learn  
every day and its not  
just about getting a  
degree, its about  
learning the virtues of  
life that we all are  
connected to.  
Build your future  
@ CECOS**



## FACILITIES

### Student Information Centre

A one stop shop, as we like to call it here at CECOS, the SIC makes sure that from day one students are provided with all the information they need at one place. At the time of admission whether it relates to inquiring about the course structure and other relevant details or whether it relates to credit transfer, all the matters are dealt from this one desk.

### Library

The central library at CECOS University is well-stocked and equipped for providing students with latest books and journals to not only assist them in gathering all the information required in completing their course work but also for conducting research.



### Student Counseling

The university offers help to students who are struggling or need career advice. If you find that for any reason you meet problems and difficulties during your time at the University, our counselors are available throughout for your guidance and support.

### Accommodation

CECOS has many students hailing from all over the country. The University has arranged accommodation for such students in their hostels which are situated near the main campus of the University. With adequate facilities, the University ensures the students are housed comfortably.

### Placement

The University is in regular contact with a large number of national and international employers and professional associations to provide students with all available information on vacancies, recruitment processes, training courses, internships and occupational information.

### Cafeterias

The University has three well maintained cafeterias where students can enjoy a variety of refreshments at very affordable prices. These cafeterias provide students opportunities to meet during breaks to exchange ideas and thoughts.

### Laboratories

With over three hundred computers, the computer labs at CECOS are well equipped with free internet access and availability of all kinds of academic software. The Engineering and Life-sciences disciplines at the University have state-of-the-art laboratories for each department where teaching, undergraduate and graduate research takes place.



### Financial Assistance

CECOS University aspires to provide as many talented students a chance to get access to quality higher education as possible. With the help of generous merit and need-based scholarships and the support of different organizations and philanthropists, CECOS has been able to support hundreds of students making education at CECOS achievable. Every year, more than 1 million rupees are disbursed as hardship funds to support students who face difficult personal circumstances. Hardship fund applications are initiated via Director Welfare and are dealt with on a case-by-case basis.

### Transport

To facilitate students coming from different areas of Peshawar, the University provides its students with transport facility.

## STUDENT SOCIETIES

Student societies at CECOS aim to make sure that their time at University is well-spent. Run by students themselves, the societies do their best to keep them informed of important issues, as well as organizing events and activities for all students. Students can get involved by attending or even by organizing the type of activities they would like to see at the campus. There are also various opportunities for students to help others either through charity events or through voluntary schemes.

### **CECOS Better World Society:**

The society for a Better World is all about rising to meet humanity's urgent local and global challenges through the vision and talent of the younger generation. It works in the following areas STEM, Human (sports) and Earth Health and Teaching learning and living. With basic research, it is only when the discoveries are in hand that we begin to recognize their world-changing applications. The challenges posed by the 21st century are formidable and intriguing and the younger generation is uniquely capable of translating scientific breakthroughs into practical solutions. Cross-disciplinary initiatives and research activities around energy, the environment, and water and food start at home, with the development of a more sustainable campus, and extend to all corners of the country and will focus on solving the problems that plague the health care system of the country with focus on fields as varied as economics, management, transportation, and public policy to aide in health care delivery.

### **CECOS Sustainable Community Services:**

The society works in the areas of local sustainable community solutions. It will help in providing with the new knowledge and skills needed to meet the challenges of sustainable development in the community, in raising public awareness and providing preconditions for informed decision-making, responsible behavior and consumer choice. The society will play a key institution in processes of social change and development, the building of new institutions of civil society, in developing and revving cultural values, and in training and socializing people of new social era. To provide connections and resources to students wishing to complete their own sustainability-related projects, such as through the Sustainability Projects. To create and coordinate in house sustainability initiatives within the University to build upon the environmental and social responsibility of the students. Blood donor's society, free medical camps, excess food redistribution, out of school children education.

### **CECOS Entrepreneurial and Startups Initiatives:**

The society will be helping innovators deliver their ideas to the calls for accelerating the journey from idea to investment and investment to impact. It works on innovative ideas for entrepreneurship and startups. Powerful connection to industry that has long fueled the translation of ideas to real-world impact. But the paths to the marketplace are evolving. Increasingly, ideas are brought to life by new ventures. Committed to fortifying this changed innovation landscape and developing new ways to shorten the route from inspiration to reality. We are equipping our students with the knowledge they need to bring their ideas to the world, strengthening our maker facilities, and infusing innovation into the art of innovation itself.

### **CECOS Art and Heritage Society:**

Believing in the vital role culture and arts programs play in nation-building, developing, preserving, protecting national identity, building bridges across cultures, and promoting ways of civilizational and humanitarian dialogue. It works in the following areas debating, recreational events, events for fund raising, and art and heritage base activities. Preserve our cultural and Art heritage and foster values both at individual and collective levels. Promote cultural and artistic interaction among different components of the student society for mutual understanding and enrichment. Provide support to all students' artists and individuals involved in artistic, cultural, and heritage activities. Engage, challenge, empower, and inspire students to embark on innovative arts and culture projects. The ability to demonstrate an understanding of the traditions, histories, and values of other cultures through its artistic and material production. Build a student with cultural/artistic integrated knowledge. Discover, nurture, and, cultivate talents. Arrange and organizing cultural and art programs, workshops, seminars, exhibitions, and events that develop student creativity and innovation and create opportunities for creativity and innovation.

### **CECOS Health and Physical Society:**

Sport can be anything you want it to be. It works in the following areas sports and physical activity events and camps and adventure sports. It will offer a wide range of sport and adventure opportunities, all of which can play a huge role in making your time here unforgettable and looking after your mental health. Create an inclusive environment where everyone feels involved, happy and

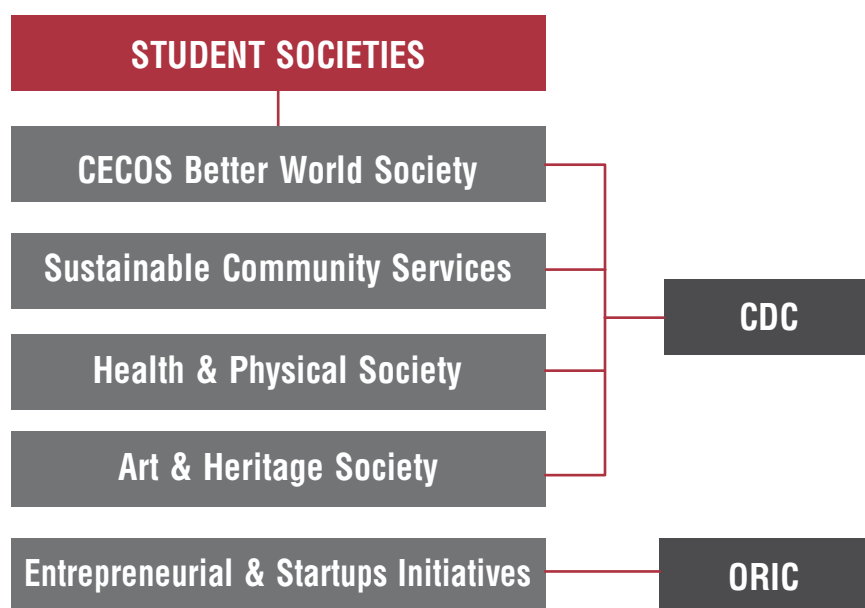
heard. Run quarterly socials to encourage students to meet one another and to help new students feel settled. Run events with speakers from the field to build on interests related to sports and exercise and give an indication of potential career paths. Exercise is a powerful source of stress relief anyway, but it's especially beneficial when you're at university. Whenever you have any looming assignment deadlines or exams that are troubling you, you can use training sessions to exercise and take your mind off things, releasing endorphins which make you happy, as well as giving you a whole host of other health benefits. Promote an environment where members can talk about challenges they may be facing (personal and/or academic) so we can attempt to support them or guide them in the right direction.

**CECOS Quran Society:**

Quran Society is one of the most vibrant and diverse societies on campus arranging a wide range of activities and events. One of the main aims of the Islamic society is to provide students with the necessary means to develop spiritually and

learn more about religion and lead our daily lives according to it. This society educates the students with knowledge of Quran and let students learn Islam without discrimination of Sects. It provides social, academic, spiritual and welfare support to students through regular events and activities which reflects a positive change in them. It will be focusing on implementation of Islam in the student's relevant fields and promoting research in those fields of engineering, biological, management and computing sciences, pure and social sciences, and humanities. Seminars, workshops and lectures with recognized guest speakers are arranged which cover a wide array of topics. Aim to raise awareness of Islam, dispelling misconceptions that have arisen in the current climate. Provide spiritual, social, academic and welfare support to through organizing various events and activities. Reflect and enhance understanding of fundamental teachings of Islam to all through discussion and debate.

## CECOS STUDENT SOCIETIES PLACEMENT





# NOTABLE EVENTS AND SEMINARS







## HUNAR ART FESTIVAL

CECOS Hunar plays pivotal role in students' personality building and nourishing the minds by arranging various curricular and co-curricular events. The team consists of future architects who have the will and energy to do wonders.





# SPORTS ACTIVITIES







FACULTY OF

# ENGINEERING

CIVIL ENGINEERING

ELECTRICAL ENGINEERING

MECHANICAL ENGINEERING

ARCHITECTURE







## DEAN FACULTY OF ENGINEERING

**MESSAGE**

Earning a professional degree not only gives skills and confidence to an individual but it also develops the ability to think logically and to solve complex problems. These skill sets are valuable when knowledge is utilized for the benefit of community. We, here at CEOCS, look forward to welcoming fresh minds and bright faces to enter in our rich programs at CECOS University.

CECOS offers innovative courses and collaboration in the nationally significant areas of Biotechnology, Engineering, Computer Science, Management Science, and Architecture. Our rich and long history of technology, teaching, and local skills provision to become a significant player in the futuristic reskilling has helped us to play our role and contribute towards the society.

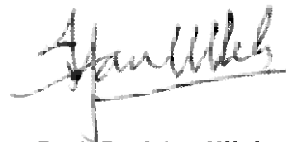
We are very proud to mention here that CECOS University is among very few universities operating in the private sector which has formally adopted the Outcome Based Education (OBE) system. From 2015 onwards, all our engineering programs are now following the OBE system which is a student-centered instruction model that focuses on measuring student performance through outcomes that include knowledge, skills and attitudes. Pakistan has been declared as "Full Signatory" of the Washington Accord which governs the recognition of engineering

educational qualifications and professional competence. Engineers registered with Pakistan Engineering Council under this category will now be considered at par with other world class professionals. They will not be evaluated for any immigrational assessment for their degrees and will be eligible for professional jobs in developed countries.

Along with engineering programs, all other programs offered here at CECOS University are accredited with their respective councils and we fully comply with and adopt the quality standards put forward by these bodies. Higher Education Commission (HEC) recognizes our accomplishments and had ranked CECOS as a top tier university.

Times have changed and now the focus is on skills. We here at CECOS understand this and have focused on improving the communication, presentation, logical and entrepreneurial skills of our graduates. We have highly qualified and experienced faculty members to support the academic journey of our graduates.

I hope you will enjoy your educational journey with us here at CECOS University which will prepare you for a rewarding career to serve this nation with honour and dignity.



**Prof. Dr. Irfan Ullah**  
Dean Faculty of Engineering



DEPARTMENT OF

# CIVIL ENGINEERING

B.Sc Civil Engineering

B.Sc Civil Engineering Technology



## Mission Statement

To serve the engineering profession by offering high quality education to create professionals that contribute towards society by providing innovative solutions with a focus on research in Civil Engineering and allied disciplines.





**Dr. Hassan Nasir**  
Ph.D Construction Engineering  
University of Waterloo, Canada



# HEAD OF DEPARTMENT CIVIL ENGINEERING



On behalf of our faculty, staff and students, I would like to share strength of Department of Civil Engineering at CECOS University that keeps low student-to-faculty ratios, state-of-the-art laboratories, motivated people, student chapters of professional societies, OBE based knowledge by involving students in real world learning by models as well as prototypes and Industrial-Departmental linkage that makes us truly unique.

Civil Engineering is a branch of the "Engineering Sciences" which offers the most service to people and the surroundings in which they live. It is related to whatever serves human life, either directly or indirectly such as services relating to Structures, Roads, Water-Supply and Sewerage systems, Environment, Surveying works etc. Civil Engineering links all the stages of these services project works starting with the Idea, Studies and Planning, Design and Stipulations, Execution (Implementation) or (Construction Stage), Site Supervision and Operation and Maintenance. By addressing these aspects both in and out of the classroom, we are educating engineers who possess the requisite technical skills to serve as tomorrow's leaders. This is what makes our department a place of choice for students to begin their careers in civil engineering.

I also invite you to explore our website for a closer look at our programs, research efforts, faculty, and other helpful information.

CED is equipped with following labs

- Environmental Engineering Lab
- Soil Mechanics Lab
- Hydraulics & Fluid Mechanics Lab
- Material Testing Lab
- Engineering Mechanics Lab
- Surveying Lab
- Concrete Lab
- Transportation Lab
- Structure Lab
- Drawing Hall
- Computer Lab

## **Prof. Dr. Muhammad Tariq Bashir**

Professor  
Ph.D Civil Engineering  
UPM, Malaysia

## FACULTY OF CIVIL ENGINEERING

**Prof. Dr. Muhammad Tariq Bashir**

Head of Department / Professor  
Ph.D Civil Engineering  
UPM, Malaysia

**Engr. Muhammad Hassan**

Assistant Professor  
B.Sc Mechanical Engineering  
UET Peshawar

**Dr. Beenish Jehan Khan**

Associate Professor  
Ph.D Geotechnical Engineering  
CECOS, University

**Engr. Qaiser Jamal**

Assistant Professor  
M.Sc. Structure Engineering  
UET Peshawar

**Engr. Nasrullah Aziz**

Lecturer / Academic Coordinator  
M.Sc. Water Resource Engineering  
& Management  
UET, Peshawar

**Engr. Kashif Ali Khan**

Lecturer  
M.Sc. Structure Engineering  
CECOS University

**Engr. Faizan Farid**

Lecturer  
M. Sc. Structure Engineering  
Iqra National University, Peshawar

**Engr. Mohsin Ali Khan**

Lecturer  
M. Sc. Structure Engineering  
MCE NUST Islamabad

**Engr. Syed Ammad**

Lecturer  
M.Sc Construction Project Management  
University of Technology Petronas, Malaysia

**Engr. Ghulam Mubeen**

Lab Engineer  
BE Civil Engineering  
MS Structure Engineering  
CECOS University Peshawar

**Engr. Jahangir**

Lab Engineer  
BE Civil Engineering  
MS Structure Engineering  
CECOS University Peshawar

**Prof. Dr. Bazid Khan**

Professor  
Ph.D Structural Engineering  
Dokuz Eylul University, Izmir, Turkey

**Dr. M. Ali Sikandar**

Associate Professor  
P.h.D. Structural Engineering  
Hanyang University, Seoul, Korea

**Dr. Babar Mujtaba**

Assistant Professor  
Ph.D Hydraulic Water Resources  
& Environmental Engineering  
CECOS, University of Poimbra, Portugal

**Engr. Zia ur Rehman**

Assistant Professor  
M.Sc. Structure Engineering  
CECOS University

**Engr. Muhammad Waleed Sarwar**

Lecturer  
MS. Structure Engineering  
CECOS University

**Engr. Abdur Rehman**

Lecturer/Lab Coordinator  
Urban Infrastructure Engineering  
UET Peshawar

**Engr. Abdul Masroor**

Lecturer/Academic Coordinator B.Tech Civil  
MS. Structure Engineering  
CECOS University

**Engr. Muhammad Imad**

Lecturer  
M. Sc. Structure Engineering  
MCE NUST Islamabad

**Engr. Tayyaba Hamid**

Lab. Engineer  
B.Sc Civil Engineering  
MS Water Resource (In Progress)  
UET Peshawar

**Engr. Nayab Khan**

Lab Engineer  
B.Sc Civil Engineering  
UET, Peshawar

**Col.(R ) Engr. Marwat Khan**

Professor  
M.Sc. Structure Engineering  
UET Lahore

**Dr. Bakht Zamin**

Associate Professor  
Ph.D. Geotechnical Engineering  
CECOS, University

**Engr. Rakhshanda Rehman**

Assistant Professor  
M. Sc. Environmental Engineering  
UET Peshawar

**Engr. Mohammad Dawood**

Lecturer  
M. Sc. Environmental Engineering  
UET Peshawar

**Engr. Muhammad Naeem**

Lecturer  
M. Sc. Structure Engineering  
UET Peshawar

**Engr. Rahat Ullah**

Lecturer  
M. Sc. Structure Engineering  
UET Peshawar

**Engr. Muhammad Asadullah**

Lecturer  
M.Sc. Water Resource Engineering  
UET Taxila

**Engr. Inam Abbas Khan**

Lecturer/Exam Coordinator  
MS Structural Engineering  
CECOS University

**Engr. Sultan Shah**

Lab Engineer  
BE Civil Engineering  
UET, Peshawar

**Engr. Ahmad Sher Khan**

Lab Engineer  
MS Advanced Chemical Engineering  
UET Peshawar



## B.Sc CIVIL ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Of B.Sc CIVIL ENGINEERING

- PEO-1:** Demonstrating a blend of engineering and professional skills in Civil Engineering and allied disciplines.
- PEO-2:** Performing ethically and socially in a sustainable and responsible manner, as an individual and team member.
- PEO-3:** Striving to enhance learning, research, and managerial skills.

### PROGRAM LEARNING OUTCOME (PLOs) FOR B.Sc CIVIL ENGINEERING

- PLO-01: Engineering Knowledge:** An ability to apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- PLO-02: Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- PLO-03: Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO-04: Investigation:** An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
- PLO-05: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
- PLO-06: The Engineer and Society:** An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
- PLO-07: Environment and Sustainability:** An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- PLO-08: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- PLO-09: Individual and Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and/or multi disciplinary settings.
- PLO-10: Communication:** An ability to communicate effectively, orally as well as in writing on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentations, make effective presentations, and give and receive clear instructions.
- PLO-11: Project Management:** Ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team to manage projects in a multidisciplinary environment.
- PLO-12: Lifelong Learning:** An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

## B.Sc CIVIL ENGINEERING

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3+0
MATH-106	Calculus and Analytical Geometry	3+0
CE-101	Engineering Mechanics	3+1
CE-102	Civil Engineering Materials	1+1
CE-103	Engineering Drawing	2+1
SS-102	Pakistan Studies	2+0
Total Credit Hours		17

### Semester-II

Course Code	Course Title	Credit Hours
CE-104	Surveying-I	2+1
MATH-108	Linear Algebra and Differential Equations	3+0
CE-121	Engineering Geology and Seismology	2+0
SS-101	Islamic Studies	2+0
CE-105	Basic Electro-Mechanical Engineering	2+1
SS-107	Professional Ethics	3+0
Total Credit Hours		16

### Semester-III

Course Code	Course Title	Credit Hours
CE-211	Mechanics of Solids-I	2+1
CE-206	Civil Engineering Drawing and Graphics	2+1
CE-207	Surveying-II	2+1
SS-205	Engineering Economics	2+0
CS-109	Computer Programming	2+1
CE-212	Concrete Technology	1+1
Total Credit Hours		16

### Semester-IV

Course Code	Course Title	Credit Hours
CE-231	Fluid Mechanics-I	3+1
CE-222	Geotechnical Engineering-I	3+1
CE-213	Structural Analysis-1	3+0
MATH-202	Numerical Analysis	3+0
ENG-102	English-II	3+0
Total Credit Hours		17

### Semester-V

Fluid Mechanics

Course Code	Course Title	Credit Hours
CE-351	Quantity and Cost Estimation	2+1
CE-332	Fluid Mechanics-II	3+1
MATH-211	Probability and Statistics	3+0
CE-352	Construction Engineering	2+0
CE-314	Reinforced Concrete Design-I	3+0
CE-315	Structural Analysis-II	3+0
Total Credit Hours		18

### Semester-VI

Course Code	Course Title	Credit Hours
CE-335	Engineering Hydrology	2+1
CE-341	Environmental Engineering-I	2+0
CE-316	Reinforced Concrete Design-II	3+1
CE-317	Mechanics of Solids-II	2+1
CE-361	Transportation Engineering-I	3+0
ENG-203	English-III	3+0
Total Credit Hours		18

### Semester-VII

Course Code	Course Title	Credit Hours
CE-423	Geotechnical Engineering-II	3+1
CE-408	Architecture and Town Planning	2+0
CE-442	Environmental Engineering-II	2+1
CE-462	Transportation Engineering-II	3+1
CE-433	Hydraulics Engineering	2+1
CE-498	Final Year Design Project-I	0+3
Total Credit Hours		19

### Semester-VIII

Course Code	Course Title	Credit Hours
CE-434	Irrigation Engineering	2+0
CE-453	Construction Management	2+1
CE-418	Steel Structures	3+0
CE-409	Geo-Informatics	1+1
CE-401	Hazards and Disaster Management	2+0
CE-499	Final Year Design Project-II	0+3
Total Credit Hours		15

**Total Credit Hours = 136**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 60% marks in intermediate with Physics, Chemistry and Maths or equivalent / Minimum 60% marks in DAE Civil or relevant field



## B.Sc CIVIL ENGINEERING TECHNOLOGY

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Of B.Sc CIVIL ENGINEERING TECHNOLOGY

- PEO 1:** Graduate Demonstrating a blend of engineering technology and professional skills in Civil Technology and allied disciplines.
- PEO 2:** Graduate Performing ethically and socially in a sustainable and responsible manner, as an individual and team member.
- PEO 3:** Graduate Striving to enhance learning and practicing skills.

### PROGRAM LEARNING OUTCOME (PLOs) FOR B.Sc CIVIL ENGINEERING TECHNOLOGY

- PLO1: Technology Knowledge:** An ability to apply knowledge of mathematics, natural science, technology fundamentals and technology specialization to defined and applied technology procedures, processes, systems or methodologies.
- PLO2: Problem Analysis:** An ability to Identify, formulate, research literature and analyze broadly-defined technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.
- PLO3: Design/Development of Solutions:** An ability to design solutions for broadly- defined technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO4: Investigation:** An ability to conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions.
- PLO5: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modeling, to broadly-defined technology problems, with an understanding of the limitations.
- PLO6: The Technologist and Society:** An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to technology practice and solutions to broadly defined technology problems.
- PLO7: Environment and Sustainability:** An ability to understand and evaluate the sustainability and impact of technology work in the solution of broadly defined technology problems in societal and environmental contexts.
- PLO8: Ethics:** Understand and commit to professional ethics and responsibilities and norms of technology practice
- PLO9: Individual and Team Work:** An ability to function effectively as an individual, and as a member or leader in diverse teams.
- PLO10: Communication:** An ability to communicate effectively on broadly defined technology activities with the technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PLO11: Project Management:** An ability to demonstrate knowledge and understanding of technology management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.
- PLO12: Lifelong Learning:** An ability to recognize the need for, and have the ability to engage in independent and life-long learning in specialist technologies.

**B.Sc CIVIL ENGINEERING TECHNOLOGY** (Afternoon Program)**Semester-I**

Course Code	Course Title	Credit Hours
MATH-106	Calculus & Analytical Geometry	3+0
CS-190	Introduction to Computer Fundamentals	1+2
ENG-103	Communication Skills	3+0
SS-101	Islamic Studies	2+0
CT-111	Concrete Technology	2+2
Total Credit Hours		15

**Semester-II**

Course Code	Course Title	Credit Hours
CT-101	Civil Engineering Drawing	1+2
CT-102	Surveying	2+2
CT-103	Applied Mechanics	2+2
CT-104	Materials and Methods of Construction	2+2
MATH-108	Linear Algebra and Differential Equations	3+0
Total Credit Hours		18

**Semester-III**

Course Code	Course Title	Credit Hours
SS-102	Pakistan Studies	2+0
CT-251	Quantity Surveying and Contract Documents	1+2
CT-221	Soil Mechanics	2+1
CT-231	Fluid Mechanics	2+1
CT-212	Mechanics of Solids	2+2
CT-205	Introduction to Architecture and Town Planning	2+0
Total Credit Hours		17

**Semester-IV**

Course Code	Course Title	Credit Hours
CT-261	Transportation Engineering	2+2
CT-241	Water Supply and Waste Water Management	2+1
CT-242	Environmental Management	2+1
CT-213	Theory of Structures	3+0
CM-206	Occupational Health and Safety Management	2+0
ENG-202	Technical Report Writing	3+0
Total Credit Hours		18

**Semester-V**

Course Code	Course Title	Credit Hours
CT-332	Hydrology	2+1
CT-314	Reinforced Concrete Structures	2+1
CT-352	Construction and Hydraulic Machinery	3+0
CT-307	Computer Aided Building Modeling and Design	1+2
CT-322	Foundation Engineering	2+1
SS-205	Engineering Economics	2+0
Total Credit Hours		17

**Semester-VI**

Course Code	Course Title	Credit Hours
CT-315	Pre-Stressed and Pre-Cast Concrete	3+0
CT-323	Geology & Earthquake Engineering	3+0
CT-333	Irrigation & Hydraulic Structures	2+1
CT-316	Steel Structures	2+0
MGT-333	Project Management	3+0
CT-499	Project	0+3
Total Credit Hours		17
CT-499	Project (Continued- 6th Semester Summer)	0+3

**Semester-VII**

Course Code	Course Title	Credit Hours
CT-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Semester-VIII**

Course Code	Course Title	Credit Hours
CT-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Total Credit Hours = 137**

**Fact File**

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in DAE Civil or relevant field or Minimum 50% marks in F.Sc Pre-Engineering

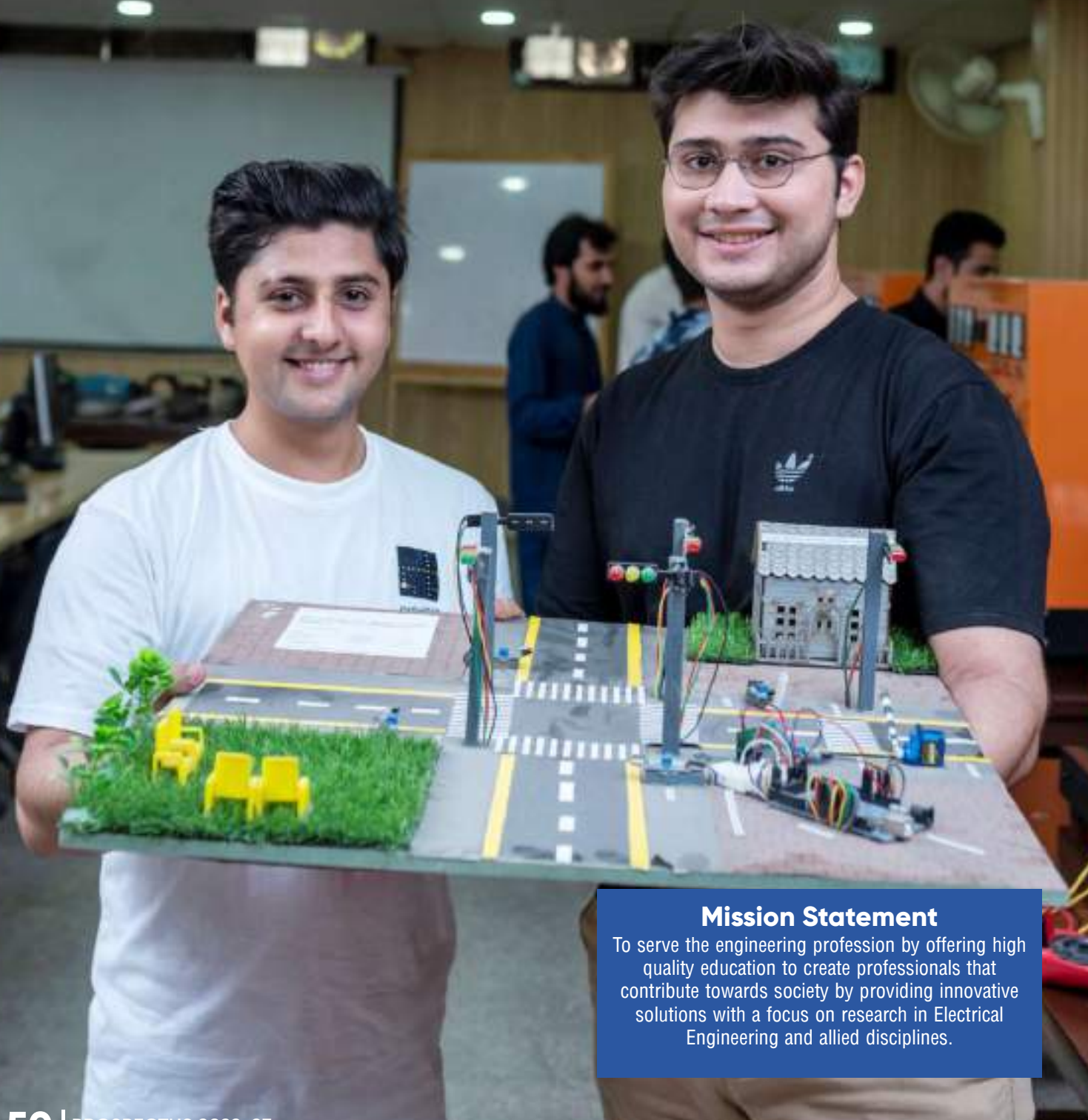


**DEPARTMENT OF**

# ELECTRICAL ENGINEERING

B.Sc Electrical Engineering

B.Sc Electrical Engineering Technology



## **Mission Statement**

To serve the engineering profession by offering high quality education to create professionals that contribute towards society by providing innovative solutions with a focus on research in Electrical Engineering and allied disciplines.





# HEAD OF DEPARTMENT ELECTRICAL ENGINEERING



Indeed, it is a matter of great pride for me to head the Electrical Engineering Department at CECOS, one of the leading private sector university of the region. We strive to produce young engineers and technologists who will lead the profession in years to come. The well qualified faculty of the department is determined to deliver an exceptional educational experience and prepare our students for the highest personal and professional achievements.

The curriculum provides exposure to a wide spectrum of basic knowledge in the relevant subjects followed by an in-depth coverage of the principles of electrical engineering, both in our classrooms and well-equipped laboratories. We have fully adopted the Outcome Based Education system as per the SOPs of Pakistan Engineering Council. Our students are encouraged to undertake projects to bridge theory with practice and in doing so prepare themselves for professional life ahead. The Department of Electrical Engineering strives to equip our students with engineering knowledge, effective presentation and communication skills, leadership and decision-making skills, high moral values, good analytical and research problem solving capabilities and to prepare them for lifelong learning experience. The Electrical Technology program aims to produce competent individuals who would be able to solve industrial as well as field-related problems. A final year project exhibition is held annually to provide opportunity to students to demonstrate their skills to the experts from academia and industry. Furthermore, the Department facilitates its students in getting internships to obtain a hands-on experience and increase the utilization of their knowledge. Industrial tours are also arranged, which provide them the opportunity to enhance their technical and communication skills by having discussions with professional engineers.

Come and join us and I assure you that you will enjoy your studies at the Department of Electrical Engineering.

**Dr. Azhar Qazi**  
PhD Electrical Engineering  
CECOS University, Peshawar

FACULTY OF **ELECTRICAL ENGINEERING****Prof. Dr. Azzam ul Asar**

Professor & Dean Graduate Studies  
Post Doctorate Electrical Engineering  
New Jersey Institute of Technology, USA

**Col. Ashfaq Ahmad (R)**

Associate Professor  
M.Sc Computer System Engineering  
NUST, Islamabad

**Dr. Khalid Rehman**

Assistant Professor  
Ph.D Electrical Engineering  
CECOS University, Peshawar

**Engr. Kiran Raheel**

Assistant Professor  
M.Sc Communication Engineering  
UET, Peshawar  
Ph.D (In Progress)  
CECOS University

**Engr. Osama Bin Muzaffar**

Lecturer  
MS Electrical Engineering  
NUST, Islamabad

**Engr. Muhammad Adeel**

Lab Engineer  
MS Electrical Engineering  
CECOS University, Peshawar

**Engr. Mian Saad Aziz**

Lab Engineer  
B.Sc Electrical Engineering  
UET, Peshawar

**Engr. Abdul Subhan**

Lab Engineer  
B.Sc Electrical Engineering  
CECOS University, Peshawar

**Dr. Azhar Qazi**

Head of Department / Assistant Professor  
Ph.D Electrical  
CECOS University, Peshawar

**Dr. Zaheer Farooq**

Assistant Professor  
Ph.D Electrical Engineering  
CECOS University, Peshawar

**Dr. Irshad Ullah**

Assistant Professor  
PhD Electrical Power Engineering  
University Tun Hussein Onn Malaysia

**Engr. Ali Mujtaba Durrani**

Lecturer  
MS Power & Control  
CECOS University, Peshawar  
Ph.D (In Progress)  
CECOS University

**Engr. Ayesha Kazmi**

Lab Engineer  
MS Electrical Engineering  
CECOS University, Peshawar

**Engr. Muhammad Uzair**

Lab Engineer  
B.Sc Electrical Engineering  
CECOS University, Peshawar

**Engr. Usman Khan Khalil**

Lab Engineer  
MS Electrical Engineering  
Sarhad University, Peshawar



## B.Sc ELECTRICAL ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Of B.Sc ELECTRICAL ENGINEERING

- PEO 1:** Graduate demonstrating a blend of engineering and professional skills in Electrical Engineering and allied disciplines.
- PEO 2:** Graduate performing ethically and socially in responsible manner, as an individual and team member.
- PEO 3:** Graduate striving to enhance learning and managerial skills.

### PROGRAM LEARNING OUTCOME (PLOs) FOR B.Sc ELECTRICAL ENGINEERING

- PLO-01: Engineering Knowledge:** An ability to apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- PLO-02: Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- PLO-03: Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO-04: Investigation:** An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
- PLO-05: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
- PLO-06: The Engineer and Society:** An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
- PLO-07: Environment and Sustainability:** An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- PLO-08: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- PLO-09: Individual and Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and/or multi disciplinary settings.
- PLO-10: Communication:** An ability to communicate effectively, orally as well as in writing on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentations, make effective presentations, and give and receive clear instructions.
- PLO-11: Project Management:** Ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team to manage projects in a multidisciplinary environment.
- PLO-12: Lifelong Learning:** An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

## B.Sc ELECTRICAL ENGINEERING

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3+0
SS-101	Islamic Studies	2+0
MATH-106	Calculus and Analytical Geometry	3+0
ME-101	Engineering Mechanics and Thermodynamics	3+0
CS-191	Introduction to ICT	3+0
NS-101	Applied Physics	3+0
Total Credit Hours		17

### Semester-II

Course Code	Course Title	Credit Hours
SS-205	Engineering Economics	2+0
MATH-108	Linear Algebra and Different Equations	3+0
EE-101	Linear circuit Analysis	3+1
EE-102	Engineering Drawing	0+1
CS-109	Computer Programming	2+1
SS-102	Pakistan Studies	2+0
ME-102	Workshop Practice	0+1
Total Credit Hours		16

### Semester-III

Course Code	Course Title	Credit Hours
MATH-201	Complex Variables and Transforms	3+0
EE-203	Electrical Network Analysis	3+1
EE-221	Digital Logic Design	3+1
Eng-201	English-II	3+0
EE-222	Electronic Devices and Circuits	3+1
Total Credit Hours		18

### Semester-IV

Course Code	Course Title	Credit Hours
MGT-331	Organizational Behavior	3+0
EE-231	Electrical Machines	3+1
MATH-202	Numerical Analysis	3+0
EE-223	Electronic Circuit Design	3+1
EE-232	Instrumentation and Measurement	3+1
Total Credit Hours		18

### Semester-V

Course Code	Course Title	Credit Hours
EE-333	Power Systems Analysis and Protection	3+1
MATH-304	Probability and Statistics	3+0
EE-304	Electromagnetic Field Theory	3+0
EE-305	Embedded Systems	3+1
EE-311	Signals and Systems	3+1
Total Credit Hours		18

### Semester-VI

Course Code	Course Title	Credit Hours
ENG-203	English-III	3+0
EE-312	Digital Signal Processing	3+1
EE-313	Communication Systems	3+1
EE-334	Power Electronics	3+1
EE-306	Linear Control Systems	3+1
Total Credit Hours		19

### Semester-VII

Course Code	Course Title	Credit Hours
EE-414	Computer Communication Networks	3+1
EE-415	Wave Propagation and Antennas	3+1
EE-435	Power Generation, Transmission and distribution	3+1
EE-441	Final Year Design Project-I	0+2
Total Credit Hours		14

### Semester-VIII

Course Code	Course Title	Credit Hours
MGT-431	Entrepreneurship	3+0
EE-416	Wireless and Mobile Communication	3+1
EE-417	RF and Microwave Engineering	3+1
EE-441	Final Year Design Project-II	0+4
Total Credit Hours		15

**Total Credit Hours = 135**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 60% marks in intermediate with Physics, Chemistry and Maths or equivalent / Minimum 60% marks in DAE Electrical or relevant field



## B.Sc ELECTRICAL ENGINEERING TECHNOLOGY

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Of B.Sc ELECTRICAL ENGINEERING TECHNOLOGY

- PEO 1:** Graduate demonstrating a blend of engineering technology and professional skills in Electrical Technology and allied disciplines.
- PEO 2:** Graduate performing ethically and socially in responsible manner, as an individual and team member.
- PEO 3:** Graduate striving to enhance learning and managerial skills.

### PROGRAM LEARNING OUTCOME (PLOs) FOR B.Sc ELECTRICAL ENGINEERING TECHNOLOGY

- PLO1: Technology Knowledge:** An ability to apply knowledge of mathematics, natural science, technology fundamentals and technology specialization to defined and applied technology procedures, processes, systems or methodologies.
- PLO2: Problem Analysis:** An ability to Identify, formulate, research literature and analyze broadly-defined technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.
- PLO3: Design/Development of Solutions:** An ability to design solutions for broadly- defined technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO4: Investigation:** An ability to conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions.
- PLO5: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modeling, to broadly-defined technology problems, with an understanding of the limitations.
- PLO6: The Technologist and Society:** An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to technology practice and solutions to broadly defined technology problems.
- PLO7: Environment and Sustainability:** An ability to understand and evaluate the sustainability and impact of technology work in the solution of broadly defined technology problems in societal and environmental contexts.
- PLO8: Ethics:** Understand and commit to professional ethics and responsibilities and norms of technology practice
- PLO9: Individual and Team Work:** An ability to function effectively as an individual, and as a member or leader in diverse teams.
- PLO10: Communication:** An ability to communicate effectively on broadly defined technology activities with the technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PLO11: Project Management:** An ability to demonstrate knowledge and understanding of technology management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.
- PLO12: Lifelong Learning:** An ability to recognize the need for, and have the ability to engage in independent and life-long learning in specialist technologies.

**B.Sc ELECTRICAL ENGINEERING TECHNOLOGY** (Afternoon Program)**Semester-I**

Course Code	Course Title	Credit Hours
MATH-106	Calculus and Analytic Geometry	3+0
NS-100	Introduction to Physics	2+1
ET-101	Linear Circuits Analysis	2+1
SS-101	Islamic Studies	2+0
CS-190	Introduction to Computer Fundamentals	1+2
ET-102	Engineering Drawing	1+2
Total Credit Hours		17

**Semester-II**

Course Code	Course Title	Credit Hours
MATH-108	Linear Algebra and Differential Equations	3+0
ET-120	Electronics	2+2
MT-101	Basic Mechanical Technology	2+1
ET-130	Power Generation Systems	2+0
ET-131	Electrical Machines-I	2+1
Total Credit Hours		15

**Semester-III**

Course Code	Course Title	Credit Hours
SS-102	Pakistan Studies	2+0
ENG-103	Communication Skills	3+0
ET-222	Electrical Instruments and Measurements	2+2
ET-232	Electrical Machines-II	2+2
ET-221	Digital Electronics	2+2
Total Credit Hours		17

**Semester-IV**

Course Code	Course Title	Credit Hours
ET-230	AC Circuit Analysis	2+2
ET-201	Electro-Magnetic Fields	2+0
ET-234	Electrical Power Transmission	2+1
ET-233	Electrical Power Distribution and Utilization	2+1
ET-223	Power Electronics	2+1
ENG-202	Technical Report Writing	3+0
Total Credit Hours		18

**Semester-V**

Course Code	Course Title	Credit Hours
ET-301	Microprocessor Theory and Interfacing	2+1
ET-330	Switch Gear and Protective Devices	2+1
ET-310	Communications Technology	2+2
ET-302	Control Technology	2+1
MGT-335	Total Quality Management	2+0
ET-334	High Voltage Technology	2+1
Total Credit Hours		18

**Semester-VI**

Course Code	Course Title	Credit Hours
ET-331	Power System Analysis	2+0
ET-311	Data and Computer Communication	2+2
ET-333	Industrial Drives and PLC	2+2
MGT-333	Project Management	3+0
ET-499	Project	0+3
Total Credit Hours		16
ET-499	Project (continued-6th Semester Summer)	0+3

**Semester-VII**

Course Code	Course Title	Credit Hours
ET-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Semester-VIII**

Course Code	Course Title	Credit Hours
ET-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Total Credit Hours = 136****Fact File****Duration:** Four Years**Eligibility:** Minimum 50% marks in DAE Electrical or relevant field or Minimum 50% marks in F.Sc Pre-Engineering

**DEPARTMENT OF**

# MECHANICAL ENGINEERING

B.Sc Mechanical Engineering

B.Sc Mechanical Engineering Technology



## **Mission Statement**

To serve the engineering profession by offering high quality education to create professionals that contribute towards society by providing innovative solutions with a focus on research in Mechanical Engineering and allied disciplines.





# HEAD OF DEPARTMENT MECHANICAL ENGINEERING



The primary aim of the Department of Mechanical Engineering at CECOS University of IT & Emerging Sciences is to train future leaders, with creativity, broad vision, global outlook, and professional ethics for industry, academia, government and communities, who have sound knowledge in mechanical engineering with effective communication, analytical, and problem-solving skills. This is reflected by our current academic programmes as well as the upcoming four year (8 Semesters) curriculum, which has been designed with a view of providing future mechanical engineers needed by the society, ten or twenty years down the road.

We are working hard to provide our students with a happy, productive and fulfilling experience in their programme, at all levels of their education. Mechanical engineers develop innovative technologies and break-through solutions for people. New challenges in energy, environment, resources, rapid urbanization and rapid knowledge expansion suggest the growing needs for knowledge of mechanical engineers. We will continue to improve our curriculum, learning and research environment to attract the best and brightest young students to explore the amazing world of mechanical engineering with us. Our students have opportunities to join various international student societies i.e. the American Society of Mechanical Engineers (ASME), and American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).

I welcome you to the Department of Mechanical Engineering with your bright eyes and curious minds, bold and confident, to learn and to form a community of learners, with knowledge to represent your family's aspirations and dreams. Your feedback on current and future services of CECOS University of IT & Emerging Sciences will be highly appreciated.

**Dr. Muhammad Shakeel**

Assistant Professor  
Ph.D Mechanical Engineering  
GIKI Topi Swabi, Pakistan

FACULTY OF **MECHANICAL ENGINEERING****Dr. Naseer Ahmed**

Professor/Vice Chancellor  
Ph.D Mechanical Engineering  
Loughborough University, UK

**Dr. Saim Saher**

Professor/Dean OSA  
Ph.D Mechanical Engineering  
University of Twente, Netherlands

**Dr. Muhammad Shakeel**

Head of Department/ Assistant Professor  
Ph.D Mechanical Engineering  
GIKI Topi Swabi, Pakistan

**Engr. M. Imran Hanif**

Assistant Professor  
MS Manufacturing Systems Engineering  
Ph.D (In Progress)  
UET, Peshawar

**Engr. Izhar\* (Gold Medalist)**

Lecturer  
M.Sc Mechatronics Engineering  
UET, Peshawar.  
Ph.D (In Progress)  
Hongkong

**Engr. Umair Ali**

Lecturer  
M.Sc Mechanical Engineering  
CECOS University, Peshawar

**Engr. Numan Habib**

Lab. Engineer  
M.Sc Mechanical Engineering  
CECOS University, Peshawar

**Engr. Hashim Khan**

Lab. Engineer  
B.Sc Mechanical Engineering  
CECOS University, Peshawar

**Dr. Irfan Ullah**

Professor/  
Dean Faculty of Engineering  
Michigan University, USA

**Dr Imran khan \***

Assistant Professor  
Ph.D. Mechanical Engineering  
University of Reading, UK

**Dr. Muhammad Aamir\***

Assistant Professor  
M.Sc Mechanical Engineering  
CECOS University, Peshawar.  
Ph.D Mechanical Engineering  
Australia

**Engr. M. Zafar Ijaz**

Assistant Professor  
M.Sc Mechanical Engineering  
Ph.D (In Progress)  
UET, Peshawar

**Engr. M. Irfan Khan**

Lecturer/ Academic Coordinator  
M.Sc Mechanical Engineering  
Ph.D (In Progress)  
UET, Peshawar

**Engr. M. Owais Awan**

Lab. Engineer  
B.Sc Mechanical Engineering  
Sarhad University, Peshawar  
M.Sc (In Progress)  
UET, Peshawar

**Engr. Waqas Alam**

Lab. Engineer  
M.Sc Mechanical Engineering  
GIKI Topi Swabi, Pakistan

\*On Study Leave



## B.Sc MECHANICAL ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs) Of B.Sc MECHANICAL ENGINEERING

#### Graduate will

- PEO-1: Demonstrate a blend of engineering and professional skills.
- PEO-2: Perform ethically and in a socially responsible manner.
- PEO-3: Strive to enhance learning and managerial skills.

### PROGRAM LEARNING OUTCOME (PLOs) FOR B.Sc MECHANICAL ENGINEERING

- PLO-01: Engineering Knowledge:** An ability to apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- PLO-02: Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- PLO-03: Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO-04: Investigation:** An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
- PLO-05: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
- PLO-06: The Engineer and Society:** An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
- PLO-07: Environment and Sustainability:** An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
- PLO-08: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- PLO-09: Individual and Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and/or multi disciplinary settings.
- PLO-10: Communication:** An ability to communicate effectively, orally as well as in writing on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentations, make effective presentations, and give and receive clear instructions.
- PLO-11: Project Management:** Ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team to manage projects in a multidisciplinary environment.
- PLO-12: Lifelong Learning:** An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

## B.Sc MECHANICAL ENGINEERING

### Semester-I

Course Code	Course Title	Credit Hours
MATH-106	Calculus and Analytical Geometry	3+0
NS-101	Applied Physics	3+0
NS-111	Applied Chemistry	2+0
ENG-101	English-I	3+0
CS-109	Computer Programming	2+1
ME-111	Engineering Drawing and Graphics	1+1
ME-112	Introduction to Engineering	1+0
Total Credit Hours		17

### Semester-II

Course Code	Course Title	Credit Hours
ME-114	Computer Aided Drawing	0+1
EE-106	Basic Electrical Engineering	2+1
MATH-108	Linear Algebra and Ordinary Differential Equations	3+0
ENG-102	English-II	3+0
ME-113	Workshop Practice	0+2
ME-115	Engineering Mechanics-I: Statics	3+0
ME-121	Thermodynamics-I	3+0
Total Credit Hours		18

### Semester-III

Course Code	Course Title	Credit Hours
SS-102	Pakistan Studies	2+0
ME-211	Engineering Mechanics-II: Dynamics	3+0
ME-212	Mechanics of Materials-I	3+0
ME-221	Thermodynamics-II	3+0
SS-101	Islamic Studies	2+0
ME-213	Engineering Mechanics Lab	0+1
ME-222	Thermodynamics Lab	0+1
MATH-201	Complex Variables and Transforms	3+0
Total Credit Hours		18

### Semester-IV

Course Code	Course Title	Credit Hours
EE-201	Fundamental of Electronics	2+1
ME-214	Machine Design-I	3+0
MATH-202	Numerical Analysis	2+0
ME-215	Mechanics of Materials-II	3+0
ME-216	Mechanics of Materials Lab	0+1
SS-205	Engineering eECONOMICS	3+0
ME-223	Fluid Mechanics-I	3+0
Total Credit Hours		18

### Semester-V

Course Code	Course Title	Credit Hours
ME-321	Fluid Mechanics-II	3+0
ME-311	Machine Design-II	2+0
ME-312	Instrumentation and Measurement	2+1
ME-322	Heat & Mass Transfer	3+0
ME-313	Manufacturing Processes	3+1
ME-323	Fluid Mechanics Lab	0+1
Total Credit Hours		16

### Semester-VI

Course Code	Course Title	Credit Hours
MATH-211	Applied Statistics	3+0
ME-3XY	Technical Elective-I	2+0
ME-314	Engineering Materials	3+0
ME-315	Mechanics of Machines	3+0
ME-324	Heating, Ventilating and Air Conditioning	3+0
ME-325	Heat Transfer and HVAC Lab	0+1
ENG-203	English-III	3+0
Total Credit Hours		18

### Semester-VII

Course Code	Course Title	Credit Hours
MS-401	Health Safety and Environment	1+0
ME-411	Mechanical Vibrations	3+0
ME-421	Internal Combustion Engines	3+0
ME-4XY	Technical Elective-II	2+0
ME-489	Final Year Design Project-I	0+3
ME-412	Mechanisms and Mechanical Vibrations Lab	0+1
ME-413	Introduction to Finite Element Analysis	2+1
Total Credit Hours		16

### Semester-VIII

Course Code	Course Title	Credit Hours
ME-4XY	Technical Elective-III	2+0
MS-402	Project Management and Entrepreneurship	3+0
ME-414	Control Engineering	3+1
ME-422	Power Plants	3+0
ME-423	IC Engines and Power Plants Lab	0+1
ME-499	Final Year Design Project-II	0+3
Total Credit Hours		16

Total Credit Hours = 137

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 60% marks in intermediate with Physics, Chemistry and Maths or equivalent / Minimum 60% marks in DAE Mechanical or relevant field

## B.Sc MECHANICAL ENGINEERING TECHNOLOGY

### PROGRAM EDUCATIONAL OBJECTIVES

#### (PEOs) Of B.Sc MECHANICAL ENGINEERING TECHNOLOGY

- PEO 1:** Graduates will demonstrate knowledge of Mechanical Engineering Technology appropriate for career pursuits and workplace needs.
- PEO 2:** Graduates will have the ability to understand, diagnose, communicate and provide solutions to technical problems/situations for the benefit of the society
- PEO 3:** Graduates will demonstrate the intellectual curiosity to actively pursue the acquisition of new knowledge and skills necessary to refine and improve his/her abilities to contribute to the Technology domain
- PEO 4:** Graduates will show Ethical commitment that allows them to deal successfully with social, technical and professional situations in their lives and work.

### PROGRAM LEARNING OUTCOME

#### (PLOs) FOR B.Sc MECHANICAL ENGINEERING TECHNOLOGY

- PLO1: Technology Knowledge:** An ability to apply knowledge of mathematics, natural science, technology fundamentals and technology specialization to defined and applied technology procedures, processes, systems or methodologies.
- PLO2: Problem Analysis:** An ability to Identify, formulate, research literature and analyze broadly-defined technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.
- PLO3: Design/Development of Solutions:** An ability to design solutions for broadly- defined technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- PLO4: Investigation:** An ability to conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions.
- PLO5: Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modeling, to broadly-defined technology problems, with an understanding of the limitations.
- PLO6: The Technologist and Society:** An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to technology practice and solutions to broadly defined technology problems.
- PLO7: Environment and Sustainability:** An ability to understand and evaluate the sustainability and impact of technology work in the solution of broadly defined technology problems in societal and environmental contexts.
- PLO8: Ethics:** Understand and commit to professional ethics and responsibilities and norms of technology practice
- PLO9: Individual and Team Work:** An ability to function effectively as an individual, and as a member or leader in diverse teams.
- PLO10: Communication:** An ability to communicate effectively on broadly defined technology activities with the technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PLO11: Project Management:** An ability to demonstrate knowledge and understanding of technology management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.
- PLO12: Lifelong Learning:** An ability to recognize the need for, and have the ability to engage in independent and life-long learning in specialist technologies.



**B.Sc MECHANICAL ENGINEERING TECHNOLOGY** (Afternoon Program)**Semester-I**

Course Code	Course Title	Credit Hours
MATH-106	Calculus and Analytical Geometry	3+0
CS-190	Introduction to Computer Fundamentals	1+2
ENG-103	Communication Skills	3+0
SS-101	Islamic Studies	2+0
CT-111	Concrete Technology	2+2
Total Credit Hours		15

**Semester-II**

Course Code	Course Title	Credit Hours
CT-101	Civil Engineering Drawing	1+2
CT-102	Surveying	2+2
CT-103	Applied Mechanics	2+2
CT-104	Materials and Methods of Construction	2+2
MATH-108	Linear Algebra and Differential Equations	3+0
Total Credit Hours		18

**Semester-III**

Course Code	Course Title	Credit Hours
ENG-103	Communication Skills	3+0
MT-211	CAD -II	0+3
MT-212	Industrial Materials	2+1
MT-213	Mechanics of Materials	2+1
MT-221	Applied Thermodynamics-II	2+1
Total Credit Hours		17

**Semester-IV**

Course Code	Course Title	Credit Hours
ENG-202	Technical Report Writing	3+0
MATH-211	Probability and Statistics	3+0
MGT-335	Total Quality Management	2+0
MT-214	Machine Design	3+0
MT-215	Engineering Statics	2+1
MT-222	Fluid Mechanics	2+2
Total Credit Hours		18

**Semester-V**

Course Code	Course Title	Credit Hours
MGT-333	Project Management	3+0
MT-311	Dynamics	2+1
MT-312	Manufacturing Processes	2+1
MT-321	Heat Transfer	2+1
MT-322	IC Engines	2+2
SS-205	Engineering Economics	2+0
Total Credit Hours		18

**Semester-VI**

Course Code	Course Title	Credit Hours
MT-302	Material Handling and Safety	3+1
MT-313	Instrumentation and Control	2+1
MT-314	Mechanical Vibration	2+1
MT-323	Refrigeration and Air Conditioning	2+1
MT-498	Project	0+3
Total Credit Hours		16
MT-498	Project (continued-6th Semester Summer)	0+3

**Semester-VII**

Course Code	Course Title	Credit Hours
MT-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Semester-VIII**

Course Code	Course Title	Credit Hours
MT-400	Supervised Industrial/Field Training	0+16
Total Credit Hours		16

**Total Credit Hours = 137****Fact File****Duration:** Four Years**Eligibility:** Minimum 50% marks in DAE Mechanical or relevant field or Minimum 50% marks in F.Sc Pre-Engineering



**DEPARTMENT OF**

# ARCHITECTURE

**Bachelor of Architecture**

## **VISION**

To be a leading provider of architecture and design education focused on improving the quality of life in the built and natural environments on both the local and global scales as influenced by nature, supported by research, focused on professional practice, and committed to heritage conservation and sustainability.

## **MISSION**

To nurture and inspire design-minded students. The Department aspires to produce graduates who are qualified, competent, skilled and trained with architectural knowledge and background, capable to understand, analyze and address the architectural demands of the society in its cultural, environmental and industrial background, based on firm foundation of critical thinking, ethical behavior, on a culture of professional practice on their way to becoming socially responsible leaders of change for our global society.







# HEAD OF DEPARTMENT ARCHITECTURE



Architecture is accepted as an art which pursues efficacy, as an applied science and technology, and as a profession which aims to achieve high quality of life by designing and constructing environments to achieve comfortable living. The Department of Architecture at CECOS University Peshawar aspires to be a leading academic entity that promotes applied research, original creation, critical deliberation and active involvement in the fields of architecture, urban design, environmental and landscape design, building and housing culture.

It is a matter of great prestige to be associated with the Department of Architecture CECOS University Peshawar which offers a five year Bachelors of Architecture degree recognized & accredited by the Pakistan Council of Architects & Town Planners. Our faculty is dedicated to teaching and our passion is focused on our students. Our graduates have developed a strong understanding of architecture from a practical perspective encompassing construction, sustainability, materials, structure, systems, economics, social needs and the latest technologies. However, in a rapidly changing world this is not enough and our students are immersed in a culture of critical inquiry not just to provide a solution, but provide the right solution.

Over the past several years we have been striving to educate future architects and designers to become active contributors to the society and leaders in making the world a better place. Regionally and nationally our students are leaders in not only the architectural profession, but also successful in a wide range of careers benefitting from their ability to innovation and creativity.

Investing in education is the key to creating tools and knowledge that can spread to millions of people for better and just cities, healthy communities, clean water, or healthy kids thus making prosperous futures for everyone on the planet. We encourage your interest in the Department of Architecture at CECOS University Peshawar and we invite you to join us as we continue the pursuit of excellence.

## **Ar. Adnan Ahmad Khan**

Bachelor of Architecture (NCA)  
M.Sc U & RP (University of Peshawar),  
M.Sc Const. & PM (Queen's University, UK)

FACULTY OF **ARCHITECTURE****Ar. Adnan Ahmad Khan**

Chairman / Associate Professor  
 B. Architecture  
 NCA, Lahore  
 M.Sc U & R P  
 University of Peshawar  
 M.Sc Construction & Project Management  
 Queen's University Belfast, UK

**Ar. Majid Khan**

Assistant Professor  
 B. Architecture  
 NCA, Lahore  
 M. Architecture (in Progress)  
 CECOS University

**Ar. Inayatullah**

Assistant Professor / Academic Coordinator  
 B. Architecture (Gold Medalist)  
 M. Architecture  
 CECOS University

**Ar. Saleem Ullah Khan**

Assistant Professor  
 B. Architecture  
 Dawood College, Karachi  
 M. Architecture (In Progress)  
 CECOS University

**Ar. Farhat Chishti**

Assistant Professor  
 B. Architecture  
 M. Architecture  
 CECOS University

**Ar. Nosheed Ullah Shah**

Lecturer  
 B. Architecture  
 NCA, Lahore  
 M. Architecture (in progress)  
 CECOS University

**Arshad Jabbar**

Lecturer  
 MFA (Advertising & Publicity Design)  
 University of Peshawar

**Ar. Awais Saeed Agha**

Lecturer  
 B. Architecture  
 CECOS, University  
 Master of Urban Planning  
 Master of Architectural Science  
 The University of Sydney

**Ar. Marwat Khan**

Associate Professor  
 B. Architecture  
 Dawood College, Karachi  
 Master of Architecture  
 UET, Lahore

**Ar. Jan e Alam**

Associate Professor  
 B. Architecture  
 Dawood College, Karachi

**Ar. Naeem Khan (Visiting)**

Associate Professor  
 B. Architecture  
 National College of Arts, Lahore

**Ar. Attique ur Rehman**

Assistant Professor/ Exam Coordinator  
 B. Architecture  
 CECOS University  
 M. Architecture  
 Bahcesehir University, Istanbul, Turkey

**Ar. Ihsan Subhani (Visiting)**

Assistant Professor  
 B. Architecture  
 B. Graphic Design  
 National College of Arts, Lahore

**Ar. Naeem Ullah**

Lecturer  
 B. Architecture  
 UET, Abbottabad

**Sana Arshad**

Lecturer  
 MFA (Advertising & Publicity Design)  
 University of Peshawar

**Ar. Sehrish Ghani (Visiting)**

Lecturer  
 B. Architecture  
 UET, Abbottabad  
 M. Architecture  
 CECOS University

# BACHELOR OF **ARCHITECTURE**

## Semester-I

Course Code	Course Title	Credit Hours
AR-121	Basic Design-I	6
AR-134	Visual Communication-I	2
AR-111	History of Architecture-I	2
AR-115	Introduction to Architecture-I	2
SS-101	Islamic Studies	2
SS-102	Pakistan Studies	2
ENG-105	English-I (Functional English)	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-II

Course Code	Course Title	Credit Hours
AR-122	Basic Design-II	6
AR-135	Visual Communication-II	2
AR-112	History of Architecture-II	2
AR-141	Materials & Construction-I	2
AR-116	Introduction to Architecture-II	2
AR-151	Energy & Environment-I	2
ENG-106	English-II (Communication skills)	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-III

Course Code	Course Title	Credit Hours
AR-223	Architectural Design-I	8
AR-236	Visual Communication-III	2
AR-213	History of Architecture-III	2
AR-242	Materials & Construction-II	2
AR-252	Energy & Environment-II	2
AR 271	Structure for Architects-I	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-IV

Course Code	Course Title	Credit Hours
AR-224	Architectural Design-II	8
AR-214	History of Architecture-IV	2
AR-243	Materials & Construction-III	2
AR-231	Digital Tools for Architects-I	2
AR-275	Surveying & Leveling	2
AR-272	Structure for Architects-II	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-V

Course Code	Course Title	Credit Hours
AR-325	Architectural Design-III	8
AR-344	Materials & Construction-IV	2
AR-317	Theory of Architecture-I	2
AR-353	Sustainable Design	2
AR-332	Digital Tools for Architects-II	2
AR-373	Building Services & Systems-I	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-VI

Course Code	Course Title	Credit Hours
AR-326	Architectural & Design-IV	8
AR-318	Theory of Architecture-II	2
AR-310	Architecture in Pakistan	2
AR-319	Vernacular Architecture	2
AR-333	Advance Computer Application for Architects	2
AR-374	Building Services & System-II	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-VII

Course Code	Course Title	Credit Hours
AR-427	Architectural Design-V	8
AR-461	Urban Design-I	3
AR-454	Design for Disaster Risk	2
AR-437	Interior Design	3
AR-445	Heritage & Conservation	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-VIII

Course Code	Course Title	Credit Hours
AR-428	Architectural Design-VI	10
AR-462	Urban Design-II	2
AR-481	Architectural Research Method	2
AR-463	Landscape Architecture	2
AR-476	Specification & Quantity Surveying	2
<b>Total Credit Hours</b>		<b>18</b>

## Semester-IX

Course Code	Course Title	Credit Hours
AR-529	Thesis Design-I	10
AR-582	Marketing & Entrepreneurship for Architects	2
ENG-501	English-III (Technical Writing)	2
<b>Total Credit Hours</b>		<b>14</b>

## Semester-X

Course Code	Course Title	Credit Hours
AR-520	Thesis Design-II	12
AR-583	Professional Practice	2
<b>Total Credit Hours</b>		<b>14</b>

**Total Credit Hours = 172**

### Fact File

**Duration:** Five Years

**Eligibility:** Minimum 50% marks in intermediate or equivalent.



## Accreditation Visit of Pakistan Council of Architects & Town Planners (PCATP)



## Faculty & Students of Architecture Department Study Tour to Istanbul, Turkey







**FACULTY OF**

# COMPUTING AND MANAGEMENT SCIENCES

**MANAGEMENT SCIENCES**

**COMPUTER SCIENCE**

**BASIC SCIENCES & HUMANITIES**







## DEAN FACULTY OF COMPUTING AND MANAGEMENT SCIENCES

### MESSAGE

On behalf of all our faculty, staff, and students, I warmly welcome you to the Faculty of Computing and Management Sciences. FCMS is CECOS University's primogenital faculty, which has had decades of consistent growth and is looking ahead to extending this momentum in the coming years. The aspirations of our students, the dedication of our exceptional faculty, and the unwavering support of the university leadership are the keys to our success. We are proud of our students as we witness them grow and learn in our transforming community before moving on to have excellent careers and contribute to the betterment of society. We are extremely glad that our alumni are working with professional competence and zeal in a variety of national and multi-national organizations. In the domains of computer science, business and management, and humanities, our faculty aspires to be regarded as a global leader in excellence, innovation, and advanced research. The field of computer science is exponentially growing to influence almost every aspect of our lives. Our inimitable and interdisciplinary faculty is emulating that progression in students, research, and innovation. Our computer programs train the next generation of technologists to address global challenges and bolster vigorous research on real-

world issues. Our business and management programs enable students to be leaders with the moral depth and intellectual rigor required to tackle the challenges of vigorous societal transformations. Our programs in the humanities and basic sciences provide emerging leaders with the knowledge, research insights, ethical principles, and personal effectiveness to make a significant positive impact on society.

As dean of the faculty, I am exceedingly proud of the opulent tradition of imparting a blend of classroom, practical, and experience-based education that our university has endorsed since its establishment. By putting the right people and programs in the right places, we are setting new standards in the computing, business and management, and humanities education. I welcome you to explore the intriguing programs offered at FCMS and join in on the incredible growth that is likely to continue at an even higher pace.

I hope you will enjoy your educational journey with us here at CECOS University which will prepare you for a rewarding career to serve this nation with honour and dignity.



**Dr. Abid Ahmad**

Dean Faculty of  
Computing & Management Sciences

**DEPARTMENT OF**

# MANAGEMENT SCIENCE

Bachelor of Business Administration

Bachelor of Science in Accounting and Finance



## **Vision**

To be a morally responsible business school preparing graduates for current and future business challenges.

## **Mission**

To serve as a resource for learning, creativity, innovation, research and leadership to equip students and professionals with managerial/entrepreneurial skills that are aligned with cultural and national values.





**The department of management sciences of CECOS University is hands down a very safe space for learning as well as executing, the extracurricular activities for refreshments is a cherry on top.**



# HEAD OF DEPARTMENT MANAGEMENT SCIENCES



We live in exciting times of fundamental technological, economic, social and environmental change and innovation. The pace and scope of ground-breaking scientific and technological advances coming from research facilities, startups, and large organizations is unprecedented. These meteoric leaps in technology and social development, however, are doing more than just providing us with new capabilities – they are changing the way we live, work, manage and relate to one another. Economies, multinationals, organizations and departments rise and fall with a blink of an eye. Amidst this dynamic business environment, Department of Management Sciences, CECOS University, is dedicated to transforming individuals into managers, entrepreneurs, civil service officers, social sector innovators, and corporate leaders who are ready to face the complexities of the fourth industrial revolution. We offer a range of degree programs; such as, BBA, BS Accounting and Finance program, a whole range of MS programs, the MBA program, and PhD program for those who want to truly advance their studies in a certain area. Our quest for quality and our sense of responsibility to expose our students to the leading thinkers in academia has led us to initiate an on-going cycle of visits by eminent scholars and professors from elite academic, government, corporate and non-profit organizations to the Department of Management Sciences, CECOS University. Our distinguished and highly qualified faculty not only possesses an effective teaching skillset, but they also actively engage in research, training and consultancy in the field which creates an enriching learning environment. Department of Management Sciences, CECOS University believes in striking a balance between theory and practice through continuously updating our curriculum whilst enhancing our current programs to cater to the needs of the industry.

A holistic world class university experience is not possible without the contribution of an array of co-curricular activities. Different student societies ranging from sports and drama to debating to entrepreneurship and community services cultivate the inner talent of every individual at the Department of Management Sciences, CECOS University. The Department's rigorous classroom training coupled with its extensive interaction with prominent scholars, industry leaders and alumni continuously challenges the students to strive for originality and excellence in their pursuits. I welcome you to be a part of our vibrant and emerging Department.

**Dr. Cedric Aimal Edwin**  
Associate Professor  
PhD (Business Management)  
University of Liverpool, UK

FACULTY OF **MANAGEMENT SCIENCES****Dr. Cedric Aimal Edwin**

Head of Department / Associate Professor  
Ph.D (Business Management)  
University of Liverpool, UK

**Dr. Muhammad Aleem**

Assistant Professor  
Ph.D (Business and Finance)  
Qurtuba University, D.I Khan

**Mr. Shiraz Khan**

Lecturer/Graduate Studies Coordinator  
MS Marketing  
IM Sciences, Peshawar  
P.hD (In Progress)  
CECOS University

**Mr. Abdul Majid Khan**

Lecturer  
M.Phil (Economics)  
Near East University, Turkey

**Mr. Naeem Khan**

Lecturer  
MA English  
University of Peshawar

**Dr. Abid Ahmad**

Associate Professor  
P.hD (Management Sciences)  
Islamia College University, Peshawar

**Mr. Ubaid Ullah**

Assistant Professor/Exam Coordinator  
MS (Finance)  
CECOS University Peshawar  
M.Sc (Stats),  
University of Peshawar  
P.hD (In Progress)  
Qurtaba University Peshawar

**Ms. Farkhanda Tayyab**

Lecturer/Academic Coordinator  
MS Management Sciences (Finance)  
CECOS University Peshawar  
MA Urdu University of Peshawar  
P.hD (In Progress)  
Qurtaba University Peshawar

**Ms. Sana Irshad**

Lecturer  
MS (Sociology)  
International Islamic University,  
Islamabad

**Mr. Syed Jawad Ali Shah**

Lecturer  
M.Phil (Philosophy)  
University of Peshawar

**Dr. Farooq Shah**

Assistant Professor  
Ph.D (Finance)  
University of Peshawar

**Mr. Imran Siddiqi**

Assistant Professor  
MS (HRM)  
City University, Peshawar  
P.hD (In Progress)  
CECOS University, Peshawar

**Ms. Maria Saeed Khattak**

Lecturer  
MS (HRM)  
IBMS Peshawar  
P.hD (In Progress)  
Qurtaba University Peshawar

**Mr. Muhammad Shahkar**

Lecturer  
M.Phil (Mathematics)  
University of Peshawar

**Molana Faiz ur Rehman**

Lecturer  
MA (Islamiat)  
MA (Arabic)  
University of Peshawar



## BACHELOR OF BUSINESS ADMINISTRATION

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3
MGT-131	Principles of Management	3
SS-104	Introduction to Philosophy	3
MGT-121	Fundamentals of Marketing	3
MGT-111	Fundamentals of Accounting	3
SS-101	Islamic Studies	2
<b>Total Credit Hours</b>		<b>17</b>

### Semester-II

Course Code	Course Title	Credit Hours
ENG-102	Freshman English II	3
MGT-122	Marketing Management	3
MGT-112	Financial Accounting	3
SS-106	Logic and Critical Thinking	3
MGT-101	Microeconomics	3
MGT-102	IT in Business	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-III

Course Code	Course Title	Credit Hours
ENG-203	English-III	3
MGT-201	Business Maths	3
SS-109	Introduction to Sociology	3
MGT-211	Cost Accounting	3
MGT-203	Macro Economics	3
<b>Total Credit Hours</b>		<b>15</b>

### Semester-IV

Course Code	Course Title	Credit Hours
ENG-204	English-IV	3
MGT-231	Human Resource Management	3
MGT-241	Business Statistics	3
MGT-212	Introduction to Business Finance	3
SS-102	Pakistan Studies	2
MGT-204	Pakistan Economy	3
<b>Total Credit Hours</b>		<b>17</b>

### Semester-V

Course Code	Course Title	Credit Hours
MGT-311	Financial Management	3
MGT-341	Statistical Inference	3
SS-110	Chinese Language	3
MGT-301	Western History	3
MGT-331	Organization Behavior	3
MGT-332	Strategic Management	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VI

Course Code	Course Title	Credit Hours
MGT-321	Consumer Behavior	3
SS-108	Introduction to Psychology	3
MGT-302	Business Law	3
MGT-303	Corporate Social Responsibility	3
MGT-333	Project Management	3
MGT-334	Supply Chain Management	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VII

Course Code	Course Title	Credit Hours
MGT-431	Entrepreneurship	3
MGT-401	Management Information System	3
MGT-441	Business Research Methods	3
	Specialization Course-I*	3
	Specialization Course-II*	3
<b>Total Credit Hours</b>		<b>15</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
MGT-442	Quantitative Techniques in Management	3
	Specialization Course-III*	3
	Specialization Course-IV*	3
	Thesis/Internship Report	6
<b>Total Credit Hours</b>		<b>15</b>

\*Specialization Courses offered in Finance, HRM, and Marketing.

**Total Credit Hours = 133**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 45% marks in intermediate or equivalent.

## BACHELOR OF BUSINESS ADMINISTRATION

### List of Specialization Courses

Course Code	Course	Specialization	Credit Hours
MGT-411	Corporate Finance	Finance	3
MGT-412	Bank's Management	Finance	3
MGT-413	Investment and Security Analysis	Finance	3
MGT-414	Financial Statement Analysis	Finance	3
MGT-415	International Finance	Finance	3
MGT-416	Banking Law and Practice	Finance	3
MGT-417	Seminar in Finance	Finance	3
MGT-418	Islamic Banking	Finance	3
MGT-419	Portfolio Management	Finance	3
MGT-433	Leadership and Team Management	HRM	3
MGT-434	Training and Organizational Development	HRM	3
MGT-435	Change Management	HRM	3
MGT-436	Strategic Human Resource Management	HRM	3
MGT-437	Wages and Salary Administration	HRM	3
MGT-438	Industrial Relations and Labor Laws	HRM	3
MGT-439	Human Resource Development	HRM	3
MGT-531	Case Studies in HRM	HRM	3
MGT-532	Conflict Management	HRM	3
MGT-533	Current Issues in HRM	HRM	3
MGT-534	Staffing and Performance Management	HRM	3
MGT-535	Human Behavior in Organization	HRM	3
MGT-536	Corporate Governance	HRM	3
MGT-537	International Labor Laws	HRM	3
MGT-421	International Marketing	Marketing	3
MGT-422	Brand Management	Marketing	3
MGT-423	Consumer Behavior	Marketing	3
MGT-424	Advertising	Marketing	3
MGT-425	Services Marketing	Marketing	3
MGT-426	Contemporary Marketing Issues	Marketing	3
MGT-427	Seminar in Marketing	Marketing	3
MGT-428	Trends in Global Marketing	Marketing	3
MGT-429	Ethics in Marketing	Marketing	3
MGT-521	Customer Relationship Management	Marketing	3
MGT-522	Social Marketing	Marketing	3
MGT-523	Marketing for Non-Profit Organizations	Marketing	3

Note: Specialization courses are subject to availability of Resources and Market Demand and are not limited to the list above

## BS ACCOUNTING AND FINANCE

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3
MGT-111	Fundamentals of Accounting	3
MGT-151	Introduction to Business	3
MGT-131	Principles of Management	3
SS-101	Islamic Studies	2
MGT-121	Fundamentals of Marketing	3
<b>Total Credit Hours</b>		<b>17</b>

### Semester-III

Course Code	Course Title	Credit Hours
MGT-201	Business Mathematics	3
MGT-203	Macro-Economics	3
MGT-211	Cost Accounting	3
ENG-203	English-III	3
MGT-261	Auditing	3
SS-109	Introduction to Sociology	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-V

Course Code	Course Title	Credit Hours
MGT-341	Statistical Inference	3
MGT-361	Financial Institutions and Markets	3
MGT-311	Financial Management	3
SS-110	Chinese Language	3
MGT-331	Organizational Behavior	3
<b>Total Credit Hours</b>		<b>15</b>

### Semester-VII

Course Code	Course Title	Credit Hours
MGT-441	Business Research Methods	3
MGT-461	Introduction to Econometrics	3
MGT-462	Computer Application in Finance	3
	Accounting/Finance Elective-I	3
	Accounting/Finance Elective-II	3
<b>Total Credit Hours</b>		<b>15</b>

### Semester-II

Course Code	Course Title	Credit Hours
MGT-101	Micro-Economics	3
ENG-102	English-II	3
MGT-112	Financial Accounting	3
MGT-102	IT in Business	3
MGT-161	Accounting Information System	3
SS-106	Logic and Critical Thinking	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-IV

Course Code	Course Title	Credit Hours
MGT-262	Taxation	3
MGT-241	Business Statistics	3
ENG-204	English-IV	3
MGT-212	Introduction to Business Finance	3
MATH-104	Calculus	3
SS-102	Pakistan Studies	2
<b>Total Credit Hours</b>		<b>17</b>

### Semester-VI

Course Code	Course Title	Credit Hours
MGT-302	Business Law	3
SS-108	Introduction to Psychology	3
MGT-303	Corporate Social Responsibility	3
MGT-333	Project Management	3
MGT-334	Supply Chain Management	3
MGT-362	Central, Commercial and Corporate Banking	3
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
MGT-411	Corporate Finance	3
	Accounting/Finance Elective-III	3
	Accounting/Finance Elective-IV	3
	Research Project / Internship	6
<b>Total Credit Hours</b>		<b>15</b>

**Total Credit Hours = 133**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 45% marks in intermediate or equivalent.



**BS ACCOUNTING AND FINANCE****List of Specialization Courses**

Sr. No.	Course Title	Cr. Hrs.
1	Portfolio Management	3
2	Managerial Accounting	3
3	Money & Banking	3
4	Auditing and Assurance	3
5	Money and Capital Markets	3
6	Risk Management	3
7	Development Finance	3
8	Taxation	3
9	Global Finance	3
10	Project Finance	3
11	Financial Modelling	3
12	Advanced Financial reporting	3
13	Accounting Information System	3
14	Actuarial Accounting	3
15	Financial Information System	3
16	Marketing of Financial Services	3
17	Corporate Governance and Ethics	3
18	Budgetary Policy and Control	3
19	Issues in Financial Reporting	3
20	Accounting for Specialized Concerns	3
21	Accounting Theory	3
22	Corporate Accounting	3

Note: Elective courses are subject to availability of Resources and Market Demand and are not limited to the list above



**DEPARTMENT OF**

# COMPUTER SCIENCE

**BS Computer Science**

**BS Software Engineering**

### **Vision**

To be recognized nationally and internationally for delivering transformative computer science education and conducting high-quality research, valuable and relevant to both our society and industry.

### **Mission**

To provide students and faculty with an open and productive environment that fosters professional and personal growth. To provide education in computer science and conduct research that meets the demand and needs of the society and industry. To collaborate with the industry and other academic and research institutes around the globe to strengthen the education, research, and development ecosystem.





**HEAD OF DEPARTMENT**

# COMPUTER SCIENCE



Welcome to the Department of Computer Science at CECOS University of IT and Emerging Sciences, Peshawar.

Computer science is a dynamic and constantly growing area that has become an integral part of our lives. Computing and information technology never stand still and offers great opportunities for true creativity and innovativeness. The courses and program structure at the Department of Computer Science at CECOS University are specially designed to allow the students to develop a wide range of skills and understanding of the technologies that are essential for modern IT and Computer professionals. Access to the best contemporary resources and information technology is what will become an essential part of your university experience.

We now offer elective courses in several streams to allow our students to specialize in a particular area. Our commitment to providing high-quality computer science education that enhances your knowledge and skills will surely set you on the course of your future. If you love Computers and Information Technology and are keen to pursue your professional endeavors in a rapidly evolving discipline, then join the department of Computer Science to experience the excitement of the computing revolution!

**Dr. M. Waqar Aziz**

Professor  
PhD Computer Science  
Universiti Teknologi Malaysia

FACULTY OF **COMPUTER SCIENCE****Dr. M. Waqar Aziz**

Head of Department / Professor  
PhD Computer Science  
Universiti Teknologi Malaysia

**Dr. Tahir Ahmad**

Assistant Professor  
PhD Computer Sciences  
and Systems Engineering.  
University of Genoa, Italy

**Mr. Zahid Sarwar**

Assistant Professor/FYP Coordinator  
MS Computer Science  
CECOS University

**Mr. Shiraz Hassan**

Lecturer / Alumni Coordinator  
MS Computer Science  
CECOS University

**Mr. Rahmat Shah**

Lecturer/Manager IT  
MS Computer Science  
Agriculture University, Peshawar

**Engr. Ahmad Junaid**

Lecturer  
MS Computer Systems Engineering  
UET, Peshawar

**Mr. Muhammad Shoaib**

Lecturer  
MS Computer Science  
Islamia College, Peshawar  
PhD (In Process)

**Syed Salman Ali Shah**

Lecturer  
MS Software Engineering  
Wuhan University, China

**Dr. Ali Sayyed**

Associate Professor/Dean OMO  
PhD Automation & System Engineering  
Federal University of Santa Catarina, Brazil

**Dr. Kifayat Ullah**

Assistant Professor  
PhD Computer Science  
University of Sao Paulo, Brazil  
(on study leave)

**Miss. Mona Khalid**

Assistant Professor  
MS(HRM), MS Computer Science  
CECOS University  
MBA  
Gomal University, D.I.Khan

**Mr. Muhammad Imran**

Lecturer/Exam Coordinator  
MS Electrical Engineering  
CECOS University, Peshawar  
PhD (In Process)

**Mr. Shehzad Khan**

Lecturer  
MS Software Engineering  
University of Southampton, England

**Engr. M. Amin Khan**

Lecturer  
BS Software Engineering  
UET, Mardan  
MS Software Engineering  
(In Progress)

**Engr. Zainab Jamil**

Lecturer  
MS Computer Engineering  
UET, Taxila

**Mr. Asad Iftikhar**

Lecturer  
MS Wireless Networks  
University of London, UK

**Dr. Maryam Mashal Khan**

Assistant Professor  
PhD Computer Science  
University of Newcastle, Australia

**Mr. Attiq ur Rehman**

Assistant Professor/Academic Coordinator  
MS Computer Science  
Agriculture University, Peshawar  
PhD (In Progress)

**Mr. Zaheer Aslam**

Lecturer / Coordinator Graduate  
Studies  
MS Computer Science  
Gandahara University Peshawar

**Mr. Kamal Ahmad**

Lecturer  
MS Software Engineering  
Gandahara University, Peshawar

**Mr. Mujeeb ur Rehman**

Lecturer  
MS Software Engineering  
Northeastern University, China

**Mr. Imran uddin Afridi**

Lecturer  
MS Computer Science  
COMSAT, Islamabad

**Mr. Asima Bibi**

Lecturer  
MS Computer System Engineering  
UET, Peshawar.

## BS COMPUTER SCIENCE

### Semester-I

Course Code	Course Title	Credit Hours
CS-191	Introduction to ICT	3+0
CS-101	Programming Fundamentals	3+1
ENG-101	English-I	3+0
MATH-106	Calculus and Analytical Geometry	3+0
NS-101	Applied Physics	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-II

Course Code	Course Title	Credit Hours
CS-121	Digital Logic Design	3+1
CS-102	Object Oriented Programming	3+1
CS-126	Discrete Structures	3+0
ENG-102	English-II	3+0
	University Elective-I	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-III

Course Code	Course Title	Credit Hours
CS-222	Computer Organization & Assembly Language	3+1
CS-203	Data Structures and Algorithms	3+1
MATH-211	Probability & Statistics	3+0
CS-290	Professional Practices	3+0
	CS Supporting-I	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-IV

Course Code	Course Title	Credit Hours
CS-204	Design & Analysis of Algorithms	3+0
CS-292	Theory of Automata	3+0
CS-281	Database Systems	3+1
MATH-107	Linear Algebra	3+0
	University Elective-II	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-V

Course Code	Course Title	Credit Hours
CS-306	Compiler Construction	3+0
CS-305	Operating Systems	3+1
CE-151	Software Engineering	3+0
	CS Elective-I	3+0
	CS Supporting-II	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-VI

Course Code	Course Title	Credit Hours
CS-331	Artificial Intelligence	3+1
CS-311	Computer Networks	3+1
ENG-203	English-III	3+0
	CS Elective-II	3+0
	CS Supporting-III	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-VII

Course Code	Course Title	Credit Hours
SS-102	Pakistan Studies	2+0
CS-498	Final Year Project-I	0+3
CS-424	Parallel and Distributed Computing	3+0
	University Elective-III	3+0
	CS Elective-III	3+0
	CS Elective-IV	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
SS-101	Islamic Studies/ Ethics	2+0
CS-499	Final Year Project-II	0+3
CS-413	Information Security	3+0
	University Elective-IV	3+0
	CS Elective-V	3+0
<b>Total Credit Hours</b>		<b>14</b>

**Total Credit Hours = 130**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in intermediate with mathematics or equivalent qualification with mathematics certified by IBCC.



## BS SOFTWARE ENGINEERING

### Semester-I

Course Code	Course Title	Credit Hours
SE-191	Introduction to ICT	2+1
CS-101	Programming Fundamentals	3+1
ENG-101	English-I	3+0
MATH-106	Calculus and Analytical Geometry	3+0
NS-101	Applied Physics	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-II

Course Code	Course Title	Credit Hours
CE-151	Software Engineering	3+0
CS-102	Object Oriented Programming	3+1
ENG-102	English-II	3+0
CS-126	Discrete Structures	3+0
	University Elective-I	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-III

Course Code	Course Title	Credit Hours
CS-203	Data Structures & Algorithms	3+1
SE-261	Software Requirement Engineering	3+0
CS-262	Human Computer Interaction	3+0
MATH-107	Linear Algebra	3+0
	University Elective-II	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-IV

Course Code	Course Title	Credit Hours
CS-305	Operating Systems	3+1
CS-281	Database Systems	3+1
SE-263	Software Design and Architecture	2+1
MATH-211	Probability & Statistics	3+0
	University Elective -III	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-V

Course Code	Course Title	Credit Hours
SE-352	Software Construction and Development	2+1
CS-311	Computer Networks	3+1
ENG-303	English-III	3+0
	SE Supporting-I	3+0
	SE Supporting -II	3+0
<b>Total Credit Hours</b>		<b>16</b>

### Semester-VI

Course Code	Course Title	Credit Hours
SE-371	Software Quality Engineering	3+0
CS-413	Information Security	3+0
CS-290	Professional Practices	3+0
CS-364	Web Engineering	3+0
	SE Elective-I	3+0
	SE Supporting-III	3+0
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VII

Course Code	Course Title	Credit Hours
SE-466	Software Re-Engineering	3+0
SE-467	Software Project Management	3+0
SS-102	Pakistan Studies	2+0
SE-498	Final Year Project-I	0+3
	SE Elective-II	3+0
	SE Elective-III	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
SS-101	Islamic Studies/Ethics	2+0
SE-499	Final Year Project-II	0+3
	SE Elective-IV	3+0
	SE Elective-V	3+0
	University Elective-IV	3+0
<b>Total Credit Hours</b>		<b>14</b>

**Total Credit Hours = 130**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in intermediate with mathematics or equivalent qualification with mathematics certified by IBCC.

## \*Computer Science Supporting and University Elective Courses

Coverage of relevant pre-requisite must be ensured while offering any of the following courses from this category

Course Code	Course Title	Credit Hours	Course Title	Credit Hours
MATH-203	Differential Equations	3+0	Foreign Language	2+0
MATH-204	Multivariable Calculus	3+0	Social Service	1+0
CS-408	Graph Theory	3+0	Management Related	3+0
CS-293	Theory of Programming Languages	3+0	Social Science Related	3+0
MATH-202	Numerical Computing	3+0	Economy Related	3+0

## \*Software Engineering Supporting and University Elective Courses

Coverage of relevant pre-requisite must be ensured while offering any of the following courses from this category

Course Code	Course Title	Credit Hours	Course Title	Credit Hours
CS-294	Business Process Engineering	3+0	Foreign Language	2+0
SE-353	Formal Methods in Software Engineering	3+0	Social Service	1+0
CS-497	Operations Research	3+0	Management Related	3+0
CS-395	Simulation and Modeling	3+0	Social Science Related	3+0
MATH-212	Stochastic Processes	3+0	Economy Related	3+0

## \*Elective Courses BSCS/BSSE

### e-commerce

- Introduction to Ecommerce
- Introduction to Business
- Digital Marketing
- Entrepreneurship
- Taxation Laws & Practices
- E-Commerce Web Design and Development
- Payment Gateway Integration

### Game Design and Development

- Computer Graphics
- Introduction to Game Programming
- Technologies for App Development
- Digital Drawing
- Design Thinking
- Game Development

### Robotics & Intelligent Systems

- Realtime Systems
- Control Systems
- Robotics
- Fuzzy Logic
- Computational Intelligence
- Multi Agent System

### Cyber Security

- Introduction to Cyber Security
- Digital Forensics
- Secure Software Design and Development
- Vulnerability Assessment & Reverse Engineering
- Wireless and Mobile Security
- Cyber Law & Cyber Crime (Cyber Warfare)
- Wireless and Mobile Security
- Cyber Law & Cyber Crime (Cyber Warfare)

### Computer Networks

- Wireless Network
- Cloud Computing
- Internet of Things (IoT) Technologies
- Network Designing and Planning
- Network Administration
- Network Security

### Artificial Intelligence

- Programming for Artificial Intelligence
- Artificial Neural Networks
- Machine Learning
- Knowledge Representation & Reasoning
- Deep Learning
- Natural Language Processing

\*Not limited to the list above, University may add more courses

## \*Elective Courses BSCS/BSSE

### App Design and Development

Advanced OOP  
Technologies for App Development  
Design Thinking  
Mobile App Development  
Cross Platform App Development  
Open-Source Application Development  
Software Project management

### Blockchain Technologies

Introduction to Blockchain Technologies  
Information Assurance  
Cryptanalysis  
Interacting with Decentralized Applications  
Cryptocurrencies and Central Bank Digital Currencies  
Fundamental of NFTs  
Blockchain Gamification and Tokenization  
Blockchain Development

### Data Science

Advanced Statistics  
Data Warehousing  
Introduction to Data Science  
Data Mining  
Machine Learning  
Big Data Analytics

### Metaverse

Introduction to AR and VR  
Introduction to Blockchain Technologies and Cryptocurrencies,  
Extended Reality and Mixed Reality  
Introduction to Metaverse  
Fundamental of NFTs and its relation with Metaverse  
Metaverse Applications

### Web Design and Development

Web Engineering  
Technologies for Web Development  
Semantic Web  
Design Thinking  
Cross-Platform Web Design and Development  
Introduction to Web Services Development  
Software Project management

### Internet of Things

Fundamentals of IoT and WSN  
Embedded Systems  
Problem Solving using Python  
Architecture and Design Principles for IoT  
Big Data Analytics  
IoT System Development

### Image Processing

Digital Signal Processing  
Computer Graphics  
Digital Image Processing  
Computer Vision  
Machine Learning  
Basics of Pattern recognition

\*Not limited to the list above, University may add more courses



DEPARTMENT OF

# BASIC SCIENCES & HUMANITIES

BS English

BS Mathematics







# HEAD OF DEPARTMENT BASIC SCIENCES & HUMANITIES



Let me welcome you to the Department of Basic Sciences & Humanities. I am delighted that you have chosen our department by taking the opportunity to learn and grow inside and outside of the classroom. During your time here you will be challenged academically, socially, personally, and spiritually. It is up to you now to rise to meet the challenges and to make the most out of your university years. The programs and courses (BS English, BS Mathematics) offered by the department are carefully designed with a focus on University values. The department wants you to be successful in the ever-growing and challenging world. Each course aims at skills required in the job market. The faculty members are trained to tap up your critical thinking and hone your entrepreneurial skills. Although you are in safe hands, you must be focused, creative and innovative, and proactive in all academic activities to attain glory.

## **Dr. Nudrat Aamir**

Ph.D Mathematics  
University of Essex United Kingdom



FACULTY OF **BASIC SCIENCE & HUMANITIES****Dr. Nudrat Aamir**

Head of Department/ Assistant Professor  
PhD Mathematics  
University of Essex United Kingdom  
Associate Fellow Higher Education UK  
Associate Researcher CPEC Center of  
excellence PIDE

**Dr. Zaheer ud Din**

Assistant Professor  
PhD Mathematics  
UET, Peshawar

**Mr. Sajjad Ahmed**

Lecturer / Academic Coordinator  
M.A English, LLB  
University of Peshawar  
M.Phil English (In Progress)  
Islamia College University, Peshawar

**Syed Ibrahim**

Lecturer/Academic Coordinator  
PhD Math's ( in progress)  
Islamia University Peshawar

**Mr. Shahkar Khan**

Lecturer  
PhD Mathematics (In Progress)  
University of Peshawar

**Mr. Haroon Naiz Ali Khan**

Lecturer  
PhD Mathematics (In Progress)  
University of Peshawar

**Dr. Muhammad Ibrahim**

Assistant Professor  
Post Doc Mathematics  
University of Chinese Academy  
of Sciences, Beijing, China

**Mr. Muhammad Jamshed**

Assistant Professor  
PhD Scholar Islamia College  
Qurtba University, Peshawar

**Syed Mazhar Ali Shah**

Lecturer  
M.Phil English  
Islamia College University, Peshawar

**Mr. Adnan Hussain**

Lecturer  
M Phil English  
Qurtuba University, Peshawar

**MS. Farah Jaffar**

Lecturer  
PhD Mathematics (In Progress)  
Shaeed Banazir Bhutto University

## BS ENGLISH

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3+0
SS-103	Introduction to History	3+0
MATH-101	Mathematics-I	3+0
SS-108	Introduction to Psychology	3+0
BT-101	Fundamentals of Biology	3+0
Total Credit Hours		15

### Semester-II

Course Code	Course Title	Credit Hours
ENG-102	English-II	3+0
SS-104	Introduction to Philosophy	3+0
MATH-102	Mathematics-II	3+0
SS-109	Introduction to Sociology	3+0
CS-191	Introduction to ICT	3+0
Total Credit Hours		15

### Semester-III

Course Code	Course Title	Credit Hours
ENG-203	English-III	3+0
ENG-211	Creative Writing	3+0
ENG-212	Critical Reading Towards Critical Writing	3+0
ENG-221	Introduction to Linguistics	3+0
ENG-213	Introduction to English Literature-I (Poetry + Drama)	3+0
Total Credit Hours		15

### Semester-IV

Course Code	Course Title	Credit Hours
ENG-214	Introduction to English Literature-II (Prose, Novel, Short Stories)	3+0
ENG-215	History of English Literature-I	3+0
SS-102	Pakistan Studies	2+0
ENG-216	English Poetry	3+0
ENG-217	Literary Criticism-I	3+0
ENG-222	TEFL-I	3+0
Total Credit Hours		17

### Semester-V

Course Code	Course Title	Credit Hours
ENG-311	History of English Literature-II	3+0
SS-101	Islamic Studies	2+0
ENG-321	Morphology and Syntax	3+0
ENG-322	Sociolinguistics	3+0
ENG-312	Literary Criticism-II	3+0
ENG-323	TEFL-II	3+0
Total Credit Hours		17

### Semester-VI

Course Code	Course Title	Credit Hours
ENG-313	English Drama	3+0
ENG-314	English Novel	3+0
ENG-315	English Prose	3+0
ENG-324	Discourse Analysis	3+0
ENG-325	Semantics	3+0
ENG-326	Psycholinguistics	3+0
Total Credit Hours		18

### Semester-VII

Course Code	Course Title	Credit Hours
ENG-411	Post-Colonial Literature	3+0
ENG-412	Women's Writing	3+0
ENG-491	Research Methodology	3+0
ENG-421	Language Teaching Methodologies	3+0
ENG-422	Pragmatics	3+0
ENG-423	Phonetics and Phonology	3+0
Total Credit Hours		18

### Semester-VIII

Course Code	Course Title	Credit Hours
ENG-492	Research Thesis (Equivalent to two courses-6CH)	3+3
ENG-	Elective Subjects	3+0
ENG-	Elective Subjects	3+0
ENG-	Elective Subjects	3+0
Total Credit Hours		15

Total Credit Hours = 130

#### Fact File

**Duration:** Four Years

**Eligibility:** Intermediate or equivalent with at least 45% marks; preference will be given to students who have studied English Advance in Intermediate.

## BS MATHEMATICS

### Semester-I

Course Code	Course Title	Credit Hours
MATH-121	Calculus-I	4+0
MATH-122	Elements of Set theory and Mathematical logic	3+0
ENG-101	English-I	3+0
SS-102	Pakistan Studies	2+0
CS -191	Introduction to ICT	3+0
NS-100	Introduction to Physics	3+0
Total Credit Hours		18

### Semester-II

Course Code	Course Title	Credit Hours
MATH-123	Calculus-II	4+0
MATH-124	Discrete Mathematics	3+0
ENG-102	English-II	3+0
SS-110	Foreign Language	3+0
SS-101	Islamic Studies/Ethics	2+0
NS-111	Basic of Electricity & Magnetism (G-3)	3+0
Total Credit Hours		18

### Semester-III

Course Code	Course Title	Credit Hours
MATH-221	Calculus-III	4+0
MATH-222	Symbolic Computation	3+0
MATH-223	Algebra-I	3+0
SS-105	Introduction to Economics	3+0
ENG-203	English-III	3+0
Total Credit Hours		18

### Semester-IV

Course Code	Course Title	Credit Hours
MATH-224	Real Analysis-I	3+0
MATH-225	Linear Algebra	3+0
MATH-226	Number Theory	3+0
MATH-211	Probability and Statistics	3+0
MATH-111	Fundamentals of Accounting	2+0
MATH-227	Classical Mechanics	3+0
Total Credit Hours		18

### Semester-V

Course Code	Course Title	Credit Hours
MATH-320	Ordinary Differential Equations	3+0
MATH-321	Complex Analysis	3+0
MATH-322	Functional Analysis	3+0
MATH-323	Real Analysis-II	3+0
MATH-324	Rings and Fields	3+0
Total Credit Hours		15

### Semester-VI

Course Code	Course Title	Credit Hours
MATH-225	Topology	3+0
MATH-326	Partial Differential Equations	3+0
MATH-327	Numerical Analysis-I	3+0
MATH-328	Measure Theory	3+0
MATH-329	Algebra-II	2+0
Total Credit Hours		15

### Semester-VII

Course Code	Course Title	Credit Hours
MATH-420	Numerical Analysis-II	3+0
MATH-421	Integral Equations	3+0
MATH-422	Inferential Statistics	3+0
MATH-423	Research Methodology	3+0
MATH-424	Graph Theory	3+0
MATH-425	Mathematical Methods	3+0
Total Credit Hours		18

### Semester-VIII

Course Code	Course Title	Credit Hours
MATH-426	Computational Fluid Dynamics	3+0
MATH-427	Affine and Euclidean Geometry	3+0
MATH-428	**(E-1) Optimization Theory	3+0
MATH-429	**(E-2) Mathematical Modeling and Simulations	3+0
MATH-431	Research Project / Two optional courses from the list given below	2+0
Total Credit Hours		15

Total Credit Hours = 130

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in intermediate with mathematics or equivalent qualification with mathematics certified by IBCC. or 60% marks in DAE.





A woman in a white lab coat is shown in profile, looking down at her work. She is wearing a black watch on her left wrist. The background is a blurred laboratory setting with orange and white tones.

**FACULTY OF**

# LIFE SCIENCES

**PHARMACY**

**ALLIED HEALTH SCIENCES**

**INSTITUTE OF INTEGRATIVE BIOSCIENCES**







## DEAN FACULTY OF LIFE SCIENCES

# MESSAGE

It is my pleasure to welcome you to the Faculty of Life Sciences (FLS) at CECOS University, which comprises of three major divisions namely: Institute of Integrative Biosciences (IIB), Department of Pharmacy and Department of Allied Health Sciences (AHS). Each of these discipline offers academic programs that promote a multidisciplinary approach and encourage interdisciplinary research. Largely, the faculty mission is to impart the highest quality of education to its students and to produce knowledgeable, technically sound, and internationally competitive graduates to meet the global challenges. We expect our graduates to further their careers either at top-tier academic or corporate institutions, or work independently as successful entrepreneurs.

IIB offers BS and MS in Biotechnology and is ready to kick up BS program in Microbiology from Fall 2022. We intend to add some more degree programs including Bioinformatics, Cell biology and Molecular medicine to the spectrum of IIB in the near future. Research is an essential component of the academic programs offered by the Institute and a strong focus is also placed on the molecular level of research with State-of-the-art laboratories designed and equipped to support research. The department produces highly trained human resource to play its role in the socio-economic and developmental needs of the country

Department of Pharmacy has started its journey of Doctor of Pharmacy (Pharm-D) program since 2019.

The department has a modern infrastructure that includes brand new laboratories for conducting experimental as well as computer-based learning, well equipped class rooms and, more importantly a qualified, highly motivated, and dedicated teaching faculty. Overall, the department offers an ideal environment that promotes learning, thinking, expression and personality enhancement. We envision the department to become a center of excellence that conducts impactful research and also offers MS and PhD degree programs in different speciality areas of Pharmacy.

Department of AHS was established in 2019 to crop top level human resources in different areas of health sciences. At present, Doctor of Physical Therapy (DPT) and BS in Medical Laboratory Technology (MLT) programs are in progress. To meet the future challenges in terms of human resources and broaden the scope of specialized degree programs in AHS, we are planning to add undergraduate programs in Anesthesia, Radiology and Dental Technologies. Mostly, AHS has excellent faculty, well-equipped laboratory facilities, and offers conducive academic environment for the students that promotes learning, thinking and expression.

If you aspire for any program offered by our faculty, please join us on our journey, and together, we will indeed succeed in attainment of our mission to improve the quality of lives.



**Prof. Dr. Fazal Subhan**

Dean Faculty of Life Sciences



## DEPARTMENT OF

# PHARMACY

Doctor of Pharmacy (Pharm-D)

### Mission

To produce qualified and well trained pharmacists who will be able to play their role for provision of safe and effective medicines.

### Vision

We strive to become a front-runner in improving health care of people through excellence in pharmacy education and research.

### Objectives

- To prepare highly competent pharmacists who can cater to the health care needs of the community at large, as well as those of the pharmaceutical industry, hospitals, and research
- To provide health professionals with continuing educational services in different areas of pharmacy practice
- To promote high quality research in clinical, basic, and applied pharmaceutical sciences.
- To uphold a Pharm-D program that is contemporary and continuously responsive to changing times





# HEAD OF DEPARTMENT PHARMACY



Welcome! It is my pleasure to introduce you to the Department of Pharmacy that has started its journey of Doctor of Pharmacy (Pharm-D) program since 2019.

Pharmacy is rated as one of the most rapidly emerging lifesaving professions in the world in general and Pakistan in particular. Apart from the traditional roles pharmacists play in hospitals and pharmaceutical industries, the concept of community pharmacy and clinical pharmacy is gaining momentum in Pakistan. Thus, the demand for highly qualified pharmacists is rapidly growing and will remain as such in future.

We strongly believe in academic excellence, high teaching standards and discipline. We equip our students with first-rate education and necessary practical skills so that highly competent professionals are provided to the community to serve with honesty and zeal. In addition to academic excellence, we are aware that personality attributes like communication skills, analytical abilities and thirst for lifelong learning are necessary for our graduates to stand out. The Department in collaboration with the Career Development Center of the University regularly arranges career counseling sessions to lead the students to independence in their future decisions regarding education, professional and career development. It is also our mission to inculcate in our students good human values and provide them opportunities to realize their potential to the fullest.

Department of Pharmacy at CECOS University has a modern infrastructure that includes brand new state-of-the-art laboratories for conducting experimental as well as computer-based learning, well equipped class rooms, a library and, more importantly a qualified, highly motivated, and dedicated teaching faculty. Overall, the department is firmly student-centered and offers an ideal environment that promotes learning, thinking, expression and personality enhancement.

Over time, we envision the department to become a center of excellence that conducts impactful research and also offers MS and PhD degree programs in different specialty areas of pharmaceutical sciences.

We warmly welcome you and invite you to visit and explore our department to have a feel of our flourishing academic environment.

If you wish to embark on an exciting and promising career in pharmacy, come and join our family of Pharmacy. We promise to bring out the very best in you!

**Dr. Fazal Subhan**  
PhD Pharmacy (Pharmacology)  
Cardiff University of Wales, UK

## FACULTY OF PHARMACY

**Dr. Fazal Subhan**

Professor/Head of Department  
PhD, Pharmacy Pharmacology  
Cardiff University of Wales, UK

**Dr. Shehla Akbar**

Assistant Professor  
Pharm-D  
PhD Pharmaceutical Sciences  
University of Peshawar

**Dr. Muhammad Shahid**

Assistant Professor/Exam Coordinator  
PhD, Pharmaceutical Sciences  
University of Peshawar, Peshawar

**Ms. Saba Saleem\***

Lecturer  
Pharm-D  
M.Phil. Pharmacy Practices  
University of Peshawar

**Ms. Urooj Aman**

Lecturer  
M.Phil, Pharmaceutical Sciences  
University of Peshawar, Peshawar

**Ms. Sana Haider**

Lecturer  
M.Phil, Pharmaceutical Sciences  
University of Peshawar, Peshawar

**Mr. Umair Ahmad**

Lecturer  
M.Phil, Pharmaceutics  
COMSATS University, Abbotabad

**Dr. Zia Ullah Shah**

Associate Professor  
B-Pharm  
PhD Microbiology  
Quaid-e-Azam University, Islamabad

**Dr. Salman Ul Islam**

Assistant Professor  
PhD, Cell Biology  
Kyungpook National University,  
South Korea

**MS. Ulfat Wahab**

Lecturer  
Pharm-D  
M.Phil. Pharmaceutics  
University of Peshawar

**Mr. Fazal Subhan\***

Lecturer  
M.Phil, Pharmacology  
COMSATS University, Abbottabad

**Ms. Sadiq Hussain**

Lecturer  
M.Phil, Pharmacology  
Khyber Medical University, Peshawar

**Mr. Asif Wasim**

Lecturer  
M.Phil, Pharmaceutics  
Abasyn University, Peshawar

\*On Leave

## DOCTOR OF PHARMACY (PHARM-D)

### Semester-I

Course Code	Course Title	Credit Hours
ENG-100	English-A	2+0
PHARM-111	Pharmaceutics-IA (Physical Pharmacy)	3+1
PHARM-121	Pharmaceutical Chemistry-IA (Organic)	3+1
PHARM-123	Pharmaceutical Chemistry-IIA (Biochemistry)	3+1
PHARM-141	Physiology-A	3+1
PHARM-143	Anatomy & Histology	3+1
<b>Total Credit Hours</b>		<b>22</b>

### Semester-III

Course Code	Course Title	Credit Hours
SS-200	Islamiat	3
PHARM-213	Pharmaceutics-IIA (Dosage Form Science)	3+1
PHARM-215	Pharmaceutics-IIIA (Pharmaceutical Microbiology and Immunology)	3+1
PHARM-244	Pharmacology and Therapeutics-IA	3+1
PHARM-231	Pharmacognosy-IA (Basic)	3+1
PHARM-251	Pharmacy Practice-IA (Pharmaceutical Mathematics)	3
<b>Total Credit Hours</b>		<b>22</b>

### Semester-V

Course Code	Course Title	Credit Hours
PHARM-353	Pharmacy Practice-IIA (Dispensing Pharmacy)	3+1
PHARM-325	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	3+1
PHARM-346	Pharmacology and Therapeutics-IIA	3+1
PHARM-333	Pharmacognosy-IIA (Advanced)	3+1
PHARM-614	Pathology	3+1
<b>Total Credit Hours</b>		<b>20</b>

### Semester-VII

Course Code	Course Title	Credit Hours
PHARM-456	Pharmacy Practice-IVA (Hospital Pharmacy)	3
PHARM-458	Pharmacy Practice-VA (Clinical Pharmacy)	3+1
PHARM-411	Pharmaceutics-IVA (Industrial Pharmacy)	3+1
PHARM-413	Pharmaceutics-VA (Biopharmaceutics and Pharmacokinetics)	3+1
PHARM-415	Pharmaceutics-VIA (Pharmaceutical Quality Management)	3+1
<b>Total Credit Hours</b>		<b>19</b>

### Semester-IX

Course Code	Course Title	Credit Hours
PHARM-511	Pharmaceutics-VIIA (Pharmaceutical Technology)	3+1
PHARM-551	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II)	3+1
PHARM-553	Pharmacy Practice-VIIA (Forensic Pharmacy)	3
PHARM-555	Pharmacy Practice-VIIIA (Pharmaceutical Management and Marketing)	3
PHARM-527	Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	3+1
<b>Total Credit Hours</b>		<b>18</b>

### Semester-II

Course Code	Course Title	Credit Hours
ENG-104	English-B	4+0
PHARM-112	Pharmaceutics-IB (Physical Pharmacy)	3+1
PHARM-122	Pharmaceutical Chemistry-IB (Organic)	3+1
PHARM-124	Pharmaceutical Chemistry-IIB (Biochemistry)	3+1
PHARM-142	Physiology	3+1
<b>Total Credit Hours</b>		<b>20</b>

### Semester-IV

Course Code	Course Title	Credit Hours
PS403	Pakistan Studies	2
PHARM 415	Pharmaceutics-IIB (Dosage Form Science) Pharmaceutics-IIIB (Pharmaceutical)	3+1
PHARM 416	Microbiology and Immunology Pharmacology and Therapeutics-IB	3+1
PHARM 417	Pharmacognosy-IB (Basic)	3+1
PHARM 418	Practice-IB (Bio-statistics)	3+1
PHARM 419	Pharmacy	3
<b>Total Credit Hours</b>		<b>22</b>

### Semester-VI

Course Code	Course Title	Credit Hours
PHARM-354	Pharmacy Practice-IIB (Community, Social and Administrative Pharmacy)	3
PHARM-326	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	3+1
PHARM334	Pharmacology and Therapeutics-IIB	3+1
PHARM-334	Pharmacognosy-IIB (Advanced)	3+1
PHARM-355	Pharmacy Practice-III (Computer and its Applications in Pharmacy)	3+1
<b>Total Credit Hours</b>		<b>19</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
PHARM-457	Pharmacy Practice-IVB (Hospital Pharmacy)	3
PHARM-459	Pharmacy Practice-VB (Clinical Pharmacy)	3+1
PHARM-412	Pharmaceutics-IVB (Industrial Pharmacy)	3+1
PHARM-414	Pharmaceutics-VB (Bio pharmaceutics and Pharmacokinetics)	3+1
PHARM-416	Pharmaceutics-VIB (Pharmaceutical Quality Management)	3+1
<b>Total Credit Hours</b>		<b>19</b>

### Semester-X

Course Code	Course Title	Credit Hours
PHARM-512	Pharmaceutics-VIIB (Pharmaceutical Technology)	3+1
PHARM-552	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	3+1
PHARM-554	Pharmacy Practice-VIIB (Forensic Pharmacy)	3
PHARM-556	Pharmacy Practice-VIIBB (Pharmaceutical Management and Marketing)	3
PHARM-528	Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	3+1
<b>Total Credit Hours</b>		<b>18</b>

Total Credit Hours = 198

#### Fact File

**Duration:** Five Years

**Eligibility:** Minimum 60% marks in F.Sc Pre-Medical or equivalent





**DEPARTMENT OF**

# ALLIED HEALTH SCIENCES

Doctor of Physical Therapy (DPT)

BS Medical Laboratory Technology (MLT)



## Vision

To be the leading hub of quality health care education, academic excellence, evidence-based practice and innovation to address the global health challenges of today and tomorrow.

## Mission

The mission of the Department of Allied Health Sciences is committed to achieve academic excellence and innovation in the fields of rehabilitation and allied health sciences by providing an intellectually stimulating environment conducive to educational, professional and personal development. The highly skilled teaching staff of the department is dedicated to equip the students with modern knowledge, skills of health care, ethics and social responsibility; in order to serve the humanity, today and tomorrow.







# HEAD OF DEPARTMENT ALLIED HEALTH SCIENCES



Greetings from the Department of Allied Health Sciences! Health, being a holistic concept, is like an umbrella under which different specialties and allied health sciences are grouped together. Taking one out of the group can lead to crippling of health system. In today's modern world, with the advancement in health technology and equipment; the health education field has been diversified to a great extent. This has led to the birth of new degrees, sub-specialties in medical sciences and modification in health education system as a whole.

Keeping in view the importance of these specialties and technologies, CECOS University felt the need of contributing to the upgrading of the health education in Khyber Pakhtun Khwa by establishing its department of Allied Health Sciences under its Institute of Biological Sciences.

Department of Allied Health Sciences is a fine feather in the hat of Institute of Biological Sciences, CECOS University. This department was established in year 2019, with its first intake of students in the Fall 2019. The department is currently running two programs namely Doctor of Physical Therapy (DPT) and BS Medical Laboratory Technology (MLT). The department is well equipped with the state-of-the-art laboratories and competent teaching staff who are motivated to contribute towards academic excellence, evidence-based practice, research and lifelong learning.

I take honor to invite and welcome you, young minds to our department where your dreams will see the light of the day! Let's grow together and serve humanity. Stay blessed.

## **Dr Eiman Sumayyah**

Doctor of Physical Therapy  
MSPT Neurological  
Khyber Medical University, Peshawar

FACULTY OF **ALLIED HEALTH SCIENCES****Dr. Eimaan Sumayyah**

Head of Department/Assistant Professor  
 DPT, MSPT Neurological Rehabilitation  
 KMU, IPM & R Peshawar  
 Diploma in Clinical Dry Needling  
 Certified Orthopedic Manual Therapist  
 Certified Bobath Neurological Therapy, Primephysio, UK  
 Certified ICU & Cardiopulmonary Physical Therapist  
 Certified Clinical Taping Therapist

**Mr. Adnan Ahmad**

Lecturer  
 BS MLT, MPH  
 KMU-IPH & SS

**Dr. Kashmala Zeb**

Demonstrator  
 DPT, IQRA National University  
 MS Orthopedic Manual Physical Therapy (In Progress)  
 RIPHAH University Islamabad

**Mr. Abdullah**

Demonstrator/Academic Coordinator  
 BS MLT  
 IQRA National University

**Mr. Munir Khan**

LAB Assistant  
 BS MLT  
 IQRA National University

**Dr. Sardar Bakht**

Lecturer DPT  
 KMU, IPM & R  
 MS Mucular Skeletal (MSK)

**Dr. Shabihul Hassan**

Demonstrator/Exam Coordinator  
 DPT, IQRA National University  
 MS Orthopedic Manual Physical Therapy (In Progress)  
 RIPHAH University Islamabad

**Dr. Andleeb Bakht**

Demonstrator  
 BS MLT  
 National Institute of Health (NIH) Islamabad

**Dr. Nasiha Rahman**

LAB Assistant  
 DPT, IQRA National University

## DOCTOR OF PHYSICAL THERAPY (DPT)

### Semester-I

Course Code	Course Title	Credit Hours
BIO-101	Fundamentals of biology	3+0
MATH-101	Mathematics-I	3+0
ENG-101	English-I	3+0
SS-101	Islamic Studies	2+0
DPT-110	Anatomy-I	3+1
DPT-114	Physiology-I	2+1
Total Credit Hours		18

### Semester-II

Course Code	Course Title	Credit Hours
DPT-111	Anatomy –II	3+1
DPT-115	Physiology-II	2+1
DPT-120	Kinesiology-I	2+1
ENG-102	English-II	3+0
SS-102	Pakistan Studies	2+0
MATH-102	Mathematics-II	3+0
Total Credit Hours		18

### Semester-III

Course Code	Course Title	Credit Hours
DPT-222	Medical Physics	2+1
DPT-221	Kinesiology-II	2+1
DPT-212	Anatomy-III	2+1
DPT-216	Physiology-III	2+1
ENG-203	English-III	3+0
CH-218	Biochemistry-I	3+0
Total Credit Hours		18

### Semester-IV

Course Code	Course Title	Credit Hours
DPT-213	Anatomy-IV	2+1
DPT-224	Biomechanics & Ergonomics-I	2+1
DPT-223	Community Medicine and Rehabilitation	3+0
DPT-219	Biochemistry-II	2+1
DPT-217	Exercise Physiology	2+1
SE-191	Introduction to ICT	2+1
Total Credit Hours		18

### Semester-V

Course Code	Course Title	Credit Hours
DPT-310	Pathology & Microbiology-I	2+0
DPT-312	Pharmacology & Therapeutics-I	2+0
DPT-325	Physical Agents & Electrotherapy-I	2+1
DPT-327	Therapeutic Exercises & Techniques	2+1
DPT-328	Biomechanics and Ergonomics-II	3+0
DPT-314	Behavioral Sciences	2+0
DPT-340	Supervised Clinical Practice-I	0+3
Total Credit Hours		18

### Semester-VI

Course Code	Course Title	Credit Hours
DPT-311	Pathology & Microbiology-II	2+1
DPT-313	Pharmacology & Therapeutics-II	2+0
DPT-326	Physical Agents & Electrotherapy-II	2+1
SS-109	Introduction to Sociology	2+0
DPT-330	Musculoskeletal Physical Therapy	2+1
DPT-341	Supervised Clinical Practice-II	3+0
DPT-329	Health and Wellness	2+0
Total Credit Hours		18

### Semester-VII

Course Code	Course Title	Credit Hours
DPT-415	Medicine-I	3+0
DPT-417	Surgery-I	3+0
DPT-419	Radiology & Diagnostic Imaging	2+1
DPT-450	Scientific Inquiry & Research Methodology	2+1
DPT-451	Evidence Based Practice	2+1
DPT-442	Supervised Clinical Practice-III	0+3
Total Credit Hours		18

### Semester-VIII

Course Code	Course Title	Credit Hours
DPT-416	Medicine-II	3+0
DPT-418	Surgery-II	3+0
DPT-431	Neurological Physical Therapy	2+1
DPT-452	Biostatistics	3+0
DPT-432	Emergency Procedures & Primary Care in Physical Therapy	2+1
DPT-443	Supervised Clinical Practice-IV	0+3
Total Credit Hours		18

### Semester-IX

Course Code	Course Title	Credit Hours
DPT-533	Cardiopulmonary Physical Therapy	2+1
DPT-520	Prosthetics & Orthotics	2+0
DPT-546	Clinical Decision Making & Differential Diagnosis	3+0
DPT-534	Manual Therapy	2+1
DPT-521	Professional Practice	2+0
DPT-535	Integumentary Physical Therapy	2+0
DPT-544	Supervised Clinical Practice-V	2+0
Total Credit Hours		18

### Semester-X

Course Code	Course Title	Credit Hours
DPT-536	Obstetrics & Gynecological Physical Therapy	2+0
DPT-537	Pediatric Physical Therapy	2+0
DPT-538	Gerontology & Geriatric Physical Therapy	2+0
DPT-539	Sports Physical Therapy	2+0
DPT-545	Supervised Clinical Practice-VI	4+0
DPT-559	Research Project	6+0
Total Credit Hours		18

Total Credit Hours = 180

#### Fact File

**Duration:** Five Years

**Eligibility:** Minimum 60% marks in F.Sc Pre-Medical or equivalent



## BS MEDICAL LABORATORY TECHNOLOGY (MLT)

### Semester-I

Course Code	Course Title	Credit Hours
ENG-101	English-I	3+0
SS-101	Islamic Studies	2+0
MATH-101	Mathematics-I	3+0
MLT-110	Human Physiology-I	2+1
BIO-101	Fundamentals of Biology	3+0
BIO-111	Fundamentals of Chemistry-I	2+1
Total Credit Hours		17

### Semester-II

Course Code	Course Title	Credit Hours
ENG-102	English-II	3+0
SS-102	Pak Studies	2+0
MLT-112	Human Anatomy-I	2+1
MLT-111	Human Physiology-II	2+1
MATH-102	Mathematics-II	3+0
MLT-120	Clinical Bacteriology	2+1
Total Credit Hours		17

### Semester-III

Course Code	Course Title	Credit Hours
ENG-203	English-III	2+1
MLT-214	General Pathology-I	2+1
MLT-213	Human Anatomy-II	2+1
BIO-308	Molecular Biology	2+1
MLT-230	Hematology-I	2+1
MLT-216	Biochemistry-I	2+1
Total Credit Hours		18

### Semester-IV

Course Code	Course Title	Credit Hours
MLT-217	Biochemistry-II	2+1
MLT-231	Hematology-II	2+1
MLT-221	Phlebotomy	2+1
BIO-207	Human Genetics	2+1
MLT-215	General Pathology-II	2+1
MLT-240	Bioethics	2+0
Total Credit Hours		17

### Semester-V

Course Code	Course Title	Credit Hours
SE-191	Introduction to ICT	2+1
MLT-322	Clinical Pathology	2+1
MLT-324	WBC and Platelets Disorders	2+1
MLT-325	Medical Lab Instrumentation	2+1
MLT-333	Histopathology	2+1
MLT-341	Biostatistics	2+1
Total Credit Hours		18

### Semester-VI

Course Code	Course Title	Credit Hours
MLT-318	General Pharmacology-I	2+1
MLT-323	RBC Disorders	2+1
MLT-332	Blood Banking	2+1
MLT-334	Cytology & Cytogenetics	2+1
MLT-335	Immunology & Serology	2+1
MLT-342	Epidemiology	2+1
Total Credit Hours		18

### Semester-VII

Course Code	Course Title	Credit Hours
MLT-419	General Pharmacology-II	2+1
RES-420	Medical Lab Management Skills	2+0
MLT-423	Clinical Virology & Mycology	2+1
MLT-424	Fundamentals of Infection Control	2+1
MLT-436	Clinical Parasitology	2+1
MLT-4143	Research Methodology	2+1
Total Credit Hours		17

### Semester-VIII

Course Code	Course Title	Credit Hours
MLT-421	Advances in Medical Lab Technology	2+1
MLT-422	Biosensors in diagnostics	2+1
MLT-437	Systematic Diagnostic in Bacteriology	3+0
MLT-438	Chemical Pathology	2+1
RES-449	Research Project	0+6
Total Credit Hours		18

Total Credit Hours = 140

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in F.Sc Pre-Medical or equivalent

# INSTITUTE OF INTEGRATIVE BIOSCIENCES

BS Biotechnology

BS Microbiology



## Vision

The Institute of Integrative Biosciences (IIB) is a cross-disciplinary life sciences institution that offers world-class degree programmes and undertakes cutting-edge research in different areas and at the interface of biological sciences and other disciplines. IIB is a constituent institute of CECOS University of IT and Emerging Sciences, a leading player in engineering education for over 36 years.

## Vision

The Institute of Integrative Biosciences (IIB) is a cross-disciplinary life sciences institution that offers world-class degree programmes and undertakes cutting-edge research in different areas and at the interfaces of biological sciences with other disciplines. IIB is a constituent institute of CECOS University of IT and Emerging Sciences, a leading player in engineering education for over 36 years.







**HEAD**

# INSTITUTE OF INTEGRATIVE BIOSCIENCES



Welcome! I am pleased to introduce you to the Institute of Integrative Biosciences (IIB) that was established in 2014.

Biological science is an emerging field of integrative sciences that employs a multitude of faculties including cellular, microbial, molecular, and computational processes to develop products and technologies that enhance the quality of human life as well as improve our environmental condition. IIB encompasses undergraduate degree programs in field of Biotechnology and Microbiology with comprehensive understanding of basic concepts and novel achievements of frontiers in both the respective fields. The institute offers a rigorous undergraduate experience in Biotechnology and Microbiology rooting from 21st century curriculum covers foundational courses in the first year with inflow of core and specialized courses spanning over the following years. Besides core scientific courses the curriculum also includes several social science courses, emphasizing on strengthening the oral and written communication skills.

The degree programs in Biotechnology and Microbiology at IIB are a multi-disciplinary platform for identification, deciphering information, and modeling pragmatic solutions to concerning local and global problems. It is a comprehensive turf of integrative sciences comprising of concepts and techniques of fields like Cell Biology, Physiology, Genetics, Chemistry, Molecular Biology, Ecology, Epidemiology, Immunology, Pathology, Bioinformatic, Synthetic Biology, and Nanotechnology to understand the biological processes from molecular scale to alignment of populations of life-forms, to generate products and technologies for enhancement of quality and span of human life. These technologies are one of the best approaches to diagnose and eradicate debilitating and rare diseases, generating affordable nutritional resources for the growing population, alleviate poverty, produce clean energy, generate better methods for removing pollution and wastes, mitigate exacerbation of global warming and climate change.

At IIB, we believe in imparting theoretical and practical knowledge that amounts a clear understanding on how to conduce science, including project framework, experimental designed, data analysis and communicating research. Furthermore, we offer several laboratory courses with hands-on experience throughout the 4 years program. Our undergraduate students are expected to conduct authentic research in their final year under the supervision of experienced researchers.

The confidence of IIB rest at its highly qualified, dedicated, enthused and competent faculty. With state-of-the-art labs and classrooms, IIB occupy a unique student centric approach where we nurture an inclusive and open culture. Our motto relies on catering to the curiosity of learners and promoting a vibrant research environment.

**Dr. Akhtar Nadhman**

PhD Nanobiotechnology  
Quaid-i-Azam University, Islamabad.

FACULTY OF **INTEGRATIVE BIOSCIENCES****Dr. Akhtar Nadhman Shams**

Head Institute of Integrative Biosciences  
Associate Professor  
PhD Nanobiotechnology  
Department of Biotechnology  
Quaid-i-Azam University, Islamabad

**Dr. Faisal F. Khan**

Adjunct Professor  
D.Phil. Systems Biology & Cell Biology  
Oxford University, UK

**Mr. Muhammad Aamir Wahab, *Gold Medalist***

Lecturer/Academic Coordinator  
M.Phil. Biotechnology & Genetic Engineering  
Institute of Biotechnology & Genetic Engineering  
The University of Agriculture Peshawar

**Ms. Maryam Anwar**

Lecturer & FYP Coordinator  
MS Healthcare Biotechnology  
Atta Ur Rahman School of Applied Biosciences,  
National University of Science & Technology, Islamabad

**Ms. Aimon Khan**

Senior Instructor  
BS Biotechnology  
Institute of Integrative Biosciences  
CECOS University Peshawar

**Dr. Kashif Mehmood, *Fulbright***

Assistant Professor  
PhD Microbiology,  
Department of Molecular & Biomedical Sciences  
The University of Maine, USA

**Mr. Sulaiman Faisal**

Lecturer & Coordinator Post Graduate Studies  
M.Phil. Biotechnology  
Institute of Biotechnology & Genetic Engineering  
The University of Agriculture Peshawar

**Ms. Sidrah Amin**

Lecturer  
M.Phil. Biotechnology & Genetic Engineering  
Institute of Biotechnology & Genetic Engineering  
The University of Agriculture Peshawar

**Mr. Ameer Muhammad Khan**

Lab Technologist  
BS Biotechnology  
Institute of Integrative Biosciences  
CECOS University Peshawar

## WHY CHOOSE IIB?

### **Our Faculty and Curriculum**

IIB has a modern curriculum disseminated by a group of very passionate faculty members. Since “Seeing is Believing”, laboratory work is an integral part of our curriculum.

### **Environment**

IIB provides a conducive-to-learning environment in which student-faculty interactions are highly encouraged.

### **Translational Research**

Research at IIB is mainly focused on solving real-world problems of local and national relevance that include interventions in Health, Environment, Agriculture, and Industry.

#### **Entrepreneurial Element**

Teaching and training at IIB have strong entrepreneurial components that are designed to encourage “biotechnological” innovation, as well as to cultivate leaders of tomorrow.

### **Affordability**

As part of its mission, IIB delivers quality education at an affordable cost. Studying at IIB will prove to be a rewarding investment for anyone aiming towards a career in Biological Sciences.

### **8 Years of IIB**

IIB is known for its flagship research laboratories in the region, which are equipped for research in areas of Cell Biology, Molecular Biology, Microbiology, Biochemistry, Nanobiotechnology, and Genetics.

Biology is developing 13 times faster than computers. Considering the promise it holds for the future, IIB has developed an innovative curriculum in the Life Sciences domain. We have laid a strong emphasis on imparting a holistic, well-grounded, interdisciplinary education that fits the trends and needs of the local and global industry.

IIB has one of the strongest faculty teams in the sector for teaching and research. Our faculty members have studied and worked at some of the best institutions globally, including Oxford, Cambridge, Imperial College, Harvard, and University of Maine.

IIB, in direct collaboration with the Directorate of Science and Technology, Govt. of KP, has rolled out the cutting-edge field of Synthetic Biology for the first time in Pakistan.

Our faculty members are involved in award-winning and cutting-edge research in the areas of Synthetic Biology, Nanobiotechnology, Molecular and Cell Biology, and Microbiology addressing problems in Health, Environment, Energy, Infectious diseases, and Cancer.

Our faculty and students have won many Regional, National and International awards, including the HEC Outstanding Researcher and Best Paper awards, SATHA Innovation Award, Young Leader Development Award from Planning Commission Islamabad, Bronze Medal and Silver Medal at the iGEM Global Championships in Boston, USA, Hult Prize, and several best paper and poster awards at National conferences.

IIB has been leading the Biotech community in the country for the past 8 years, hosting and organizing several key events, including The Future is Now! Biotech Young Leaders Conference, Teachers Roundtable Conferences, SynBio and Biotech Startup Competitions, Molecular Biology and Genetic Engineering Bootcamps for A-levels and F.Sc students, Teachers and Students Training Programmes on lab skills, and Trends in Life Sciences Seminar sessions, bringing in and fostering top National and International scientists via workshops and much more!

We strongly believe in STEM (Science, Technology, Engineering, and Mathematics) awareness and outreach. Since its inception, IIB has organized and conducted dozens of roadshows, workshops, and lectures in schools and colleges across the country, breaking barriers and jumping distances, taking biotech and Synbio to more than 10,000 students Nationwide!





**The Institute of Integrative Biosciences of CECOS University is an unparalleled place for encouraging academic competence and nurturing excellence in research. The labs at IIB provided me with an exceptionally progressive atmosphere to promote my learning, explore my interests and refine my research skills.**

# BS BIOTECHNOLOGY

## Semester-I

Course Code	Course Title	Credit Hours
BIO-101	Fundamentals of Biology	3+1
BIO-111	Fundamentals of Chemistry-I	3+0
MATH-103	Pre-Calculus	3+0
CS-191	Introduction to ICT	3+0
SS-101	Islamic Studies	2+0
ENG-101	English-I	3+0
<b>Total Credit Hours</b>		<b>18</b>

## Semester-II

Course Code	Course Title	Credit Hours
BIO-102	Cell Biology	3+1
SS-102	Pakistan Studies	2+0
BIO-112	Fundamentals of Chemistry-II	3+1
MATH-104	Calculus	3+0
ENG-102	English-II	3+0
BIO-103	Classical Genetics	2+0
<b>Total Credit Hours</b>		<b>18</b>

## Semester-III

Course Code	Course Title	Credit Hours
BIO-221	Biochemistry-I	3+0
BIO-204	Plant Physiology & Pathology	3+0
BIO-205	Molecular Biology	4+0
BIO-271	Introduction to Biotechnology	3+0
BIO-206	Fundamentals of Microbiology-I	3+1
<b>Total Credit Hours</b>		<b>17</b>

## Semester-IV

Course Code	Course Title	Credit Hours
BIO-222	Biochemistry-II	3+1
BIO-207	Fundamentals of Microbiology-II	2+1
SS-201	Logical & Scientific Reasoning	2+0
BIO-208	Immunology	3+0
BIO-272	Analysis of Biomolecules	3+0
BIO-209	RNA Biology	3+0
<b>Total Credit Hours</b>		<b>18</b>

## Semester-V

Course Code	Course Title	Credit Hours
BIO-373	Evolution, Biodiversity and Conservation	4+0
BIO-323	Biophysics	3+0
SS-105	Introduction to Economics	3+0
BIO-374	Recombinant DNA Technology	2+1
BIO-381	Agriculture Biotechnology	1+0
CS-109	Computer Programming	1+2
<b>Total Credit Hours</b>		<b>17</b>

## Semester-VI

Course Code	Course Title	Credit Hours
BIO-375	Biosafety & Bioethics	2+0
BIO-324	Biostatistics	3+0
BIO-325	Bioinformatics-I	3+1
BIO-326	Cell and Tissue Culture	2+1
BIO-382	Industrial Biotechnology	3+0
BIO-383	Health Biotechnology	3+0
<b>Total Credit Hours</b>		<b>18</b>

## Semester-VII

Course Code	Course Title	Credit Hours
BIO-427	Bioinformatics-II	3+0
BIO-484	Food Biotechnology	3+0
BIO-485	Elective-I	3+0
BIO-428	Research Methodology and Scientific Writing	2+0
BIO-491	Seminar-I	1+0
BIO-499	Research	3+0
<b>Total Credit Hours</b>		<b>15</b>

## Semester-VIII

Course Code	Course Title	Credit Hours
BIO-429	Bio Entrepreneurship	3+0
BIO-486	Elective-II	3+0
BIO-487	Introduction to OMICS	3+0
BIO-492	Seminar-II	1+0
BIO-499	Research	3+0
<b>Total Credit Hours</b>		<b>13</b>

**Total Credit Hours = 134**

### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in FSc Pre-medical or equivalent

## BS MICROBIOLOGY

### Semester-I

Course Code	Course Title	Credit Hours
BIO-101	Fundamentals of Biology	3+1
BIO-111	Fundamentals of Chemistry-I	3+0
MATH-103	Pre-Calculus	3+0
CS-191	Introduction to ICT	3+0
SS-101	Islamic Studies	2+0
ENG-102	English-I	3+0
<b>Total Credit Hours</b>		<b>18</b>

### Semester-II

Course Code	Course Title	Credit Hours
BIO-102	Cell Biology	3+1
SS-102	Pakistan Studies	2+0
BIO-112	Fundamentals of Chemistry-II	3+1
MATH-104	Calculus	3+0
ENG-102	English-II	3+0
BIO-103	Classical Genetics	2+0
<b>Total Credit Hours</b>		<b>18</b>

### Semester-III

Course Code	Course Title	Credit Hours
BIO-221	Biochemistry-I	3+0
BIO-204	Plant Physiology & Pathology	3+0
BIO-205	Molecular Biology	4+0
BIO-231	Introduction to Biotechnology	3+0
BIO-206	Fundamentals of Microbiology-I	3+1
<b>Total Credit Hours</b>		<b>17</b>

### Semester-IV

Course Code	Course Title	Credit Hours
BIO-222	Biochemistry-II	3+1
BIO-207	Fundamentals of Microbiology-II	2+1
SS-201	Logical and Scientific Reasoning	2+0
BIO-208	Immunology	3+0
BIO-232	Analysis of Biomolecules	3+0
BIO-209	RNA Biology	3+0
<b>Total Credit Hours</b>		<b>18</b>

### Semester-V

Course Code	Course Title	Credit Hours
BIO-341	Microbial Taxonomy and Diversity	3+0
BIO-342	Microbial Genetics	3+0
BIO-343	Epidemiology and Public Health	3+0
BIO-333	Genetic Engineering	2+1
BIO-344	Mycology	2+1
CS-109	Computer Programming	2+1
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VI

Course Code	Course Title	Credit Hours
BIO-323	Biosafety and Bioethics	2+0
BIO-324	Biostatistics	3+0
BIO-325	Bioinformatics	3+1
BIO-345	Advanced Virology	2+1
BIO-346	Frontiers in Microbiology	3+0
BIO-347	Medical Microbiology	3+0
<b>Total Credit Hours</b>		<b>18</b>

### Semester-VII

Course Code	Course Title	Credit Hours
BIO-448	Food Microbiology	3+0
BIO-478	Microscopy and Image Analysis	3+0
BIO-477	Research Methodology and Scientific Writing	2+0
BIO-449	Industrial Microbiology	3+0
BIO-45/46	Elective-I	3+0
BIO-499	Research	3+0
<b>Total Credit Hours</b>		<b>17</b>

### Semester-VIII

Course Code	Course Title	Credit Hours
BIO-427	Bio-Entrepreneurship	3+0
BIO-45/46	Elective-II	3+0
BIO-434	Environmental Biotechnology	3+0
BIO-491	Seminar-1	1+0
BIO-427	Research	3+0
<b>Total Credit Hours</b>		<b>13</b>

**Total Credit Hours = 137**

#### Fact File

**Duration:** Four Years

**Eligibility:** Minimum 50% marks in FSc Pre-medical or equivalent



# ONLINE AND DISTANCE LEARNING MANAGEMENT OFFICE

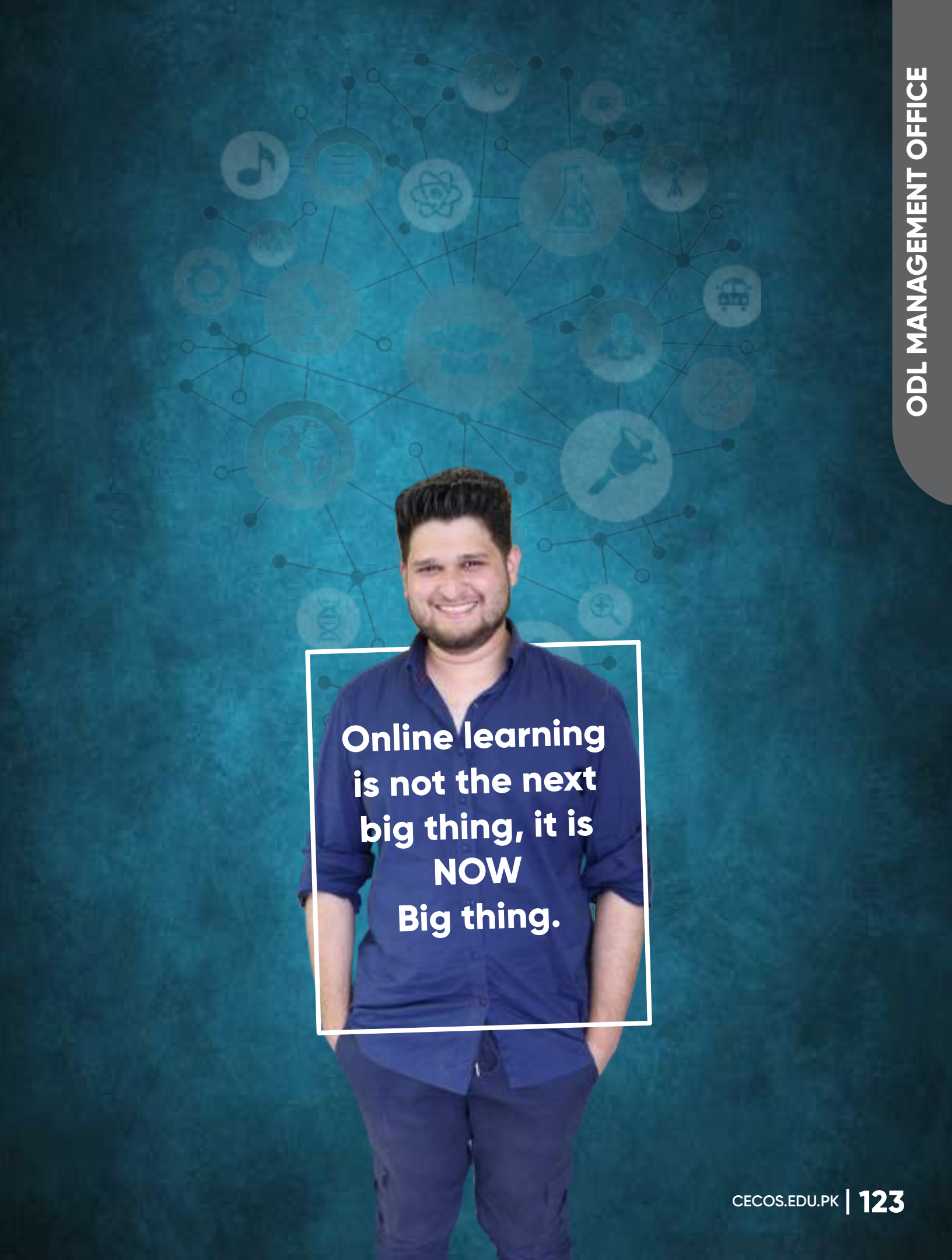
## Vision

To provide students with the opportunity to access and engage in quality education via distance and online learning to meet the future's continuous and changing educational needs.

## Mission

- To promote the creation and delivery of quality Distance Education to students anywhere and anytime.
- To develop the intellectual capabilities of our students by encouraging the independent learning aspect of education.



A man with dark hair and a beard, wearing a dark blue button-down shirt and dark trousers, stands with his hands in his pockets. He is smiling and looking towards the camera. The background is a dark teal color with a network of white lines connecting various circular icons representing different fields of study: music, science, technology, sports, and general education. A white rectangular box is superimposed over the man's torso, containing the text.

**Online learning  
is not the next  
big thing, it is  
NOW  
Big thing.**



# DEAN ONLINE AND DISTANCE LEARNING MANAGEMENT OFFICE



It is my pleasure to welcome you to the Online and Distance Learning (ODL) Education at CECOS University of IT and Emerging Sciences Peshawar.

What's your next aim in your life? A new career, a path towards your promotion? Earning a degree or Certificate while working? Interested in learning more about a specific topic/subject? or Learning a new skill? Our innovative and cutting-edge courses and programs will prepare you for whatever is next, giving you the skills, knowledge, and flexibility you need to live the life you want. Online and Distance Learning is now a wonderful reality and I am proud to assure you that CECOS ODL is an excellent platform where teaching and learning take place on state-of-the-art technology platforms.

We're constantly seeking out new ways to disseminate knowledge. In collaboration with academia, industry, and the community we will try to create new courses and program offerings, which implement new ways of teaching and will make knowledge accessible to people anywhere anytime.

If you are looking for a life-changing educational experience, you will find CECOS ODL an excellent platform to study. The confidence of IIB rests on its highly qualified, dedicated, enthused, and competent faculty. IIB occupies a unique student-centric approach with state-of-the-art labs and classrooms where we nurture an inclusive and open culture. Our motto relies on catering to learners' curiosity and promoting a vibrant research environment.

**Dr. Ali Syyed**  
Dean, ODL Management Office



## ONLINE AND DISTANCE LEARNING EDUCATION AT CECOS (ODL)

Welcome to the Online and Distance Learning (ODL) Education at CECOS University of IT and Emerging Sciences, Peshawar.

The outbreak of the COVID-19 pandemic and its rapid spread around the world have raised serious questions about the future of education and this has been a hot topic of discussion among educators in recent years. This pandemic has unexpectedly brought the future way too early for industries and organizations, forcing them to rethink and reshape their policies, processes, and working mechanisms. The outbreak has had an equal impact on education, and universities and colleges worldwide and in Pakistan are highly concerned about educating their students.

CECOS University of IT and Emerging Sciences is concerned about its students' futures, understands the value of online and distance learning education, and is committed to ensuring that online and distance learning programs and courses are as academically rigorous as their face-to-face versions. ODL education at CECOS focuses on using technology and educational approaches to provide an effective learning experience to students outside of the traditional classroom, increasing flexibility and performance.

### **Courses and Programs Offered**

Up to date information relating to the courses offered can be found on the ODL section of the CECOS University website.



**CECOS COLLEGE**

**LONDON**

## **Courses**

- BA (Hons) – 4 years
- BA (Hons) – 3 years
- BA (Hons) (Top Up)
- HNC/ HND Business
- HNC/ HND Healthcare
- DET
- OTHM Level 6 Diploma
- Further Education

We are pleased to welcome you to CECOS College based in the UK and are sure that you will have an enjoyable and rewarding experience. This prospectus outlines the key things you may need to know regarding the different courses here at the College.



**Prof. Mark Mabery**  
**PRINCIPAL**

We pride ourselves in offering high-quality teaching and the student experience is at the centre of all we do. The class sizes are small to allow good interaction with the tutors and fellow classmates. We have a student support office who provide information and guidance on current and next steps including employability.

Whatever your interests and ambitions, CECOS College can help you gain the qualifications and personal development you need to succeed. Our students have an enviable reputation for their achievements. Year on year they achieve impressive results which is testament to the talent, hard work and commitment of both our students and staff. I am very proud of the progress our students make from Level 1 Functional Skills through to a full level 6 honours degree in Business Management.

It is also great to have our partnership with Staffordshire University BA (Hons) Business Management undergraduates. The College has 5 campuses covering London, Luton, Birmingham, Leeds and Newcastle which provides education throughout the UK.

We will continue our tradition way of providing a college and career focused education to our students and quality service to our families. I am truly honored to continue leading the CECOS family for the 2021-2022 academic year and we hope to see you soon at CECOS College.

## INTRODUCTION

Since 1998, CECOS College London has been recognised as a prestigious name in further and higher education in the UK. Our mission is to provide and promote opportunities for personal, professional and academic growth for students from all backgrounds. The programmes that we offer are market-oriented and are structured to meet the demands of the future. Our courses help each individual develop the tools, gain the skills, and enhance the abilities required to become a productive individual. CECOS offers its students an educational experience which is shaped by commitment, enthusiasm, discipline, effectiveness, insight and creativity: an educational experience which can withstand the demands of the contemporary world. We prepare all our students for the next stage of their life, whether its a progression to achieve a university degree or to apply their skills and knowledge in the market

## MISSION STATEMENT

To work together to create a better future for all through education, enterprise and employment

## VISION

- Deliver an outstanding student experience.
- Support employability, enterprise and innovation.
- Place people and communities at the centre of our values.
- Maintain a dynamic and sustainable college.
- Grow our reputation and influence.
- Participate in the development of CECOS College.

## OUR VALUES

Our values are the principles that guide the way we do things. They are based on consultation with staff, students and others.

**Achievement:** We are ambitious. We set high standards for the College and all its students and staff. We help people transform their lives through education, experience, support and inspiration.

**Inclusion:** We are an open, welcoming and supportive College. Our commitment to equality and diversity underpins everything we do. We build and sustain positive relationships with many communities.

**Excellence:** We aim for excellence in all our teaching, learning and assessment, and across our campus and facilities. We are innovative and creative in our outlook and approach, and encourage these qualities in our students.

**Focus:** We are professional and purposeful, working towards our shared strategic goals and managing our resources well. We are forward-looking, engaging with the wider social and economic environment.

**Integrity:** We work to uphold our values in our planning and decision-making, our teaching and learning, our actions and relationships. We aim to be fair, open, honest and accountable to the communities we serve and to treat all with respect.



# BA (HONS) BUSINESS MANAGEMENT AND SUSTAINABILITY – 4 YEARS

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## OVERVIEW

Our BA (Hons) Business Management and Sustainability course challenges the traditional interpretations of enterprise and will open your mind to a broad range of contemporary themes in business. Our emphasis on ethical business and sustainability will position you to create long-lasting value for your organisation and you will learn the practical skills needed to become a responsible business leader. At CECOS College London in partnership with Staffordshire Business School, we provide a streamlined teaching method, allowing you to focus on one module at a time. To allow true immersion in each stage of your learning, you will study one topic over a five-week period and receive your results before starting the next module. Our approach focuses on individual skills and will develop your expertise as an independent learner and problem solver, preparing you for a fast-paced, focused career in business.

On successful completion of study, we will issue the following award: BA (Hons) Business Management and Sustainability



## AIM & OBJECTIVES

**Knowledge & Understanding:** Graduates should be able to demonstrate relevant knowledge and systematic understanding and critical evaluation of organisations, the business environment in which they operate and their management. Programmes emphasise understanding, responding and shaping the dynamic and changing nature of business and the consideration of the future of organisations within the global business environment, including the management of risk.

**Learning:** Carry out enquiry-based learning, critical analysis and evaluation, and creative thinking to provide opportunities and solutions for business success. This encompasses organisations internal functions, the business environment and management processes, procedures and practices for effective management of organisations. Engage in strategic thinking and development and apply ethical reasoning to issues facing contemporary organisations, management and leadership.

**Enquiry:** Justify and apply appropriate and ethical approaches to research and investigation in the field of management and apply skills and knowledge of enterprise in the pursuit of new business solutions and opportunities. Evaluate the effectiveness and ethical use of Information in a global business management context.

**Analysis:** Describe, comment on and critically evaluate contemporary research into business management and its application related to decision making and the judgement of strategic decisions. Be entrepreneurial in your way of thinking and behaving, and in your approach to problem and opportunity analysis. Throughout you will reflect on the application of creative thinking, risk analysis and innovation.

**Problem Solving:** Demonstrate a range of approaches to solving complex and interrelated business problems, displaying judgement of appropriate and different perspectives and the knowledge and understanding of what is right and ethical.

**Communication:** Communicate complex information, ideas, problems and solutions through a variety of media and display confidence in their communication and presentation abilities and your ability to network and interact.

**Application:** Apply, with reasoned judgment the research and analysis skills, problem-solving techniques and business knowledge to business problems review, extend, devise and sustain arguments to complex organisation problems, scenarios and opportunities to demonstrate your capabilities as entrepreneurs and enterprising individuals.

**Reflection:** Demonstrate a high level of competence in personal development, showing initiative, responsibility, reflection and the transferable skills necessary for employability and understanding of your role in a globalised economy, through highly developed skills of personal awareness and critical review.

## COURSE STRUCTURE

### FOUNDATION YEAR

- Communication in the Digital Age
- Managing People for Planet and Profit
- Business Performance
- External Business Environments
- Business Simulation Project

### YEAR 2

- The Business of Doing Good
- Governance and Climate Change
- Sustainable Business Development
- Business Creativity and Innovation

### YEAR 1

- The Future of Work
- Data and Decision Making
- Global Challenges and Opportunities
- Risk and Reward
- Social Enterprise
- The Balance of Power

### YEAR 3

- Leadership Strategy and Social Impact
- Innovative Change Management
- Consultancy Project

## ENTRY REQUIREMENTS

Typical UCAS Offer: 48 points

A level: A, DD, EEE or equivalent

BTEC: PPP

For details of UCABA tariff points please see the current online prospectus at:

<http://www.staffs.ac.uk/undergraduate/>

We understand that you might have experienced a challenging run up to higher education and may have not met the entry requirements as listed. If this is the case don't worry, contact us and our team of expert advisors can guide you through the next stages of application, or help you find the perfect course for your needs

# BA (HONS) BUSINESS MANAGEMENT AND SUSTAINABILITY – 3 YEARS

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## OVERVIEW

Our BA (Hons) Business Management and Sustainability course challenges the traditional interpretations of enterprise and will open your mind to a broad range of contemporary themes in business. Our emphasis on ethical business and sustainability will position you to create long-lasting value for your organisation and you will learn the practical skills needed to become a responsible business leader. At CECOS College London in partnership with Staffordshire Business School, we provide a streamlined teaching method, allowing you to focus on one module at a time. To allow true immersion in each stage of your learning, you will study one topic over a five-week period and receive your results before starting the next module. Our approach focuses on individual skills and will develop your expertise as an independent learner and problem solver, preparing you for a fast-paced, focused career in business.

On successful completion of study, we will issue the following award: BA (Hons) Business Management and Sustainability



## AIM & OBJECTIVES

**Knowledge & Understanding:** Graduates should be able to demonstrate relevant knowledge and systematic understanding and critical evaluation of organisations, the business environment in which they operate and their management. Programmes emphasise understanding, responding and shaping the dynamic and changing nature of business and the consideration of the future of organisations within the global business environment, including the management of risk.

**Learning:** Carry out enquiry-based learning, critical analysis and evaluation, and creative thinking to provide opportunities and solutions for business success. This encompasses organisations internal functions, the business environment and management processes, procedures and practices for effective management of organisations. Engage in strategic thinking and development and apply ethical reasoning to issues facing contemporary organisations, management and leadership.

**Enquiry:** Justify and apply appropriate and ethical approaches to research and investigation in the field of management and apply skills and knowledge of enterprise in the pursuit of new business solutions and opportunities. Evaluate the effectiveness and ethical use of Information in a global business management context.

**Analysis:** Describe, comment on and critically evaluate contemporary research into business management and its application related to decision making and the judgement of strategic decisions. Be entrepreneurial in your way of thinking and behaving, and in your approach to problem and opportunity analysis. Throughout you will reflect on the application of creative thinking, risk analysis and innovation.



**Problem Solving:** Demonstrate a range of approaches to solving complex and interrelated business problems, displaying judgement of appropriate and different perspectives and the knowledge and understanding of what is right and ethical.

**Communication:** Communicate complex information, ideas, problems and solutions through a variety of media and display confidence in their communication and presentation abilities and your ability to network and interact.

**Application:** Apply, with reasoned judgment the research and analysis skills, problem-solving techniques and business knowledge to business problems review, extend, devise and sustain arguments to complex organisation problems, scenarios and opportunities to demonstrate your capabilities as entrepreneurs and enterprising individuals.

**Reflection:** Demonstrate a high level of competence in personal development, showing initiative, responsibility, reflection and the transferable skills necessary for employability and understanding of your role in a globalised economy, through highly developed skills of personal awareness and critical review.

## COURSE STRUCTURE

### YEAR 1

- The Future of Work
- Data and Decision Making
- Global Challenges and Opportunities
- Risk and Reward
- Social Enterprise
- The Balance of Power



### YEAR 2

- The Business of Doing Good
- Governance and Climate Change
- Sustainable Business Development
- Business Creativity and Innovation

### YEAR 3

- Leadership Strategy and Social Impact
- Innovative Change Management
- Consultancy Project

## ENTRY REQUIREMENTS

Typical UCAS Offer: 96 points

A level: A, DD, EEE or equivalent

BTEC: PPP

For details of UCABA tariff points please see the current online prospectus at:

<http://www.staffs.ac.uk/undergraduate/>

We understand that you might have experienced a challenging run up to higher education and may have not met the entry requirements as listed. If this is the case don't worry, contact us and our team of expert advisors can guide you through the next stages of application, or help you find the perfect course for your needs

## BA (Hons) Business Management (Top Up)

### Units

Customer Experience Strategy (30 credits)  
Authentic Leadership(15 credits)  
Business Ethics(15 credits)  
Change and Transformation(15 credits)  
Knowledge Exchange Project (30 credits)  
Measuring Success (15 credits)

### ENTRY REQUIREMENTS

**HND in Business, Hospitality, Tourism Management or equivalent**

**For admission to our first degrees, you will normally be expected to have passed at least one of the following options**

- Two subjects at Advanced GCE (A Level)
  - One VCE Double Award
  - Two, six-unit Advanced VCEs
  - One Advanced GCE (A Level) and one, six-unit Advanced VCE
  - A Scottish Certificate of Education with passes in five separate subjects, of which three are at the Higher grade
  - Two subjects at Scottish Advanced Higher
  - An EDEXCEL BTEC or SCOTVEC National Certificate/Diploma at a good standard
  - An access programme passed at the required QAA-recognised standard for entry to Higher Education
  - An award of the European Baccalaureate Diploma, with at least 60 percent overall; English at 60 percent
  - An award of the International Baccalaureate Diploma with a minimum of 24 points; English at four points
  - An award of the Irish Leaving Certificate with a minimum of five Higher passes
  - A Welsh Baccalaureate Diploma.
- (If you have had funding previously for studying at university, this may affect your eligibility for a loan.)









## SUMMARY OF DISTINCTIVE FEATURES OF THE COURSE

During the course of the study, students will be taught by friendly, knowledgeable, qualified, professional lecturers, who have been employed in either health or social care and are well equipped to help relate the study topics to current policy and practice in the domain. This offers the opportunity to develop core transferable skills and knowledge relevant to health care, social care and public health.

Your learning will help you to develop the knowledge relevant to a productive future in the health and social care sectors.

You will develop core skills which are relevant to all Health and Social Care areas, such as record keeping, academic writing and reflective thinking, understanding of how health and wellness may be measured, learn the use of common measurements of data, and how you can affect the communication of others. To support your development and work-readiness, employability skills as professionalism, effective communication, evaluation of evidence are embedded throughout the Foundation Year with the opportunity to undertake relevant work experience in a Health & Social Care setting.



## LEARNING, TEACHING AND ASSESSMENT

You will be taught through a combination of lectures, seminars, practical sessions and tutorials, which will amount to at least 12 hours per week. When not attending lectures, seminars or other timetabled sessions, you will be expected to continue learning independently through self-study. Typically, this will involve utilising a range of digital resources including our virtual learning environment; reading journals, articles and books; working on individual and group projects; undertaking research in the library; preparing coursework assignments and presentations, and preparing for examinations.

You will be assessed through a variety of different formats, this includes presentations, practical coaching, written assignments and work placement portfolio. Teaching will take place at the CECOS College London. Each module normally includes 'formative'

assessments, for which you receive feedback from your tutor. There is a formal or 'summative' assessment at the end of each module. This includes a range of coursework assessments, such as essays, reports, portfolios, performance, presentations etc. The grades from formal assessments count towards your module mark.

Foundation Year	Year 1	Year 2	Year 3
Skills for Higher Education	Healthy Individuals Through the Lifespan	Basic Counselling Skills In Health and Social Care	Contemporary Issues in Health and Social Care
Communication for Personal and Professional Skills Development	Professional Issues (And Work Experience)	Health Promotion	Extending Health and Social Care Study
Health, Choice and the Lifespan	The Context of Health and Social Care	Introduction to Public Health	Leadership and Management in Health and Social Care
Introduction to Health and Social Science	Using Communication Skills in Health and Social Care	Research Skills for Health and Social Care	The Employable Graduate
Measuring Health and Wellness		Understanding Health and Social Care Organisations (And Work Experience)	
Introduction to Health and Social Care Policy		Understanding Community	

## ENTRY REQUIREMENTS

Successful applicants will typically have 48 UCAS points, made up of Level 3 equivalent qualifications, including A Level and BTEC courses. Additionally, we welcome applications from people with a variety of qualifications, skills and experience. Each application will be assessed on their individual merits.

Students are expected to be able to demonstrate English language comprehension at a level equivalent to IELTS (International English Language Testing System) 5.5 to be able to study Foundation Year BSc (Hons.) Health and Social Care.

*\*All candidates will be required to attend an interview where your ability to undertake the course will be assessed.*

# HIGHER NATIONAL CERTIFICATE (LEVEL 4) HIGHER NATIONAL DIPLOMA (LEVEL 5) IN BUSINESS

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## OVERVIEW

BTEC is an established brand of choice for the world's learning communities, engaging students in applied, practical, interpersonal, and thinking skills for more than three decades. The BTEC suite of Pearson qualifications, Higher Nationals (HNs) are widely supported by higher education and industry as the principal vocational qualifications at Levels 4 and 5. BTEC is one of the world's most successful applied learning brands, helping students develop their practical, interpersonal, and thinking skills for more than 30 years. When developing our BTEC Higher National qualifications, we worked with a wide range of students, employers, higher education providers, colleges, and subject experts to make sure the qualifications met their needs and expectations. We also work closely with professional organisations to make sure the qualifications were in line with recognised professional standards.

The Pearson BTEC Higher National qualifications in Business are designed to reflect the increasing need for high quality professional and technical education at levels 4 and 5. They provide students with a clear line of sight to employment and to a degree at level 6 if they choose.



## QUALIFICATION OBJECTIVES

- The objectives of the Pearson BTEC Higher Nationals in Business are:
- To give students the business skills, knowledge and understanding they need to achieve high performance in the international business environment
- To develop students with enquiring minds, who have the abilities and confidence to work across different business functions and to lead, manage, respond to change, and tackle a range of complex business situations
- To provide the core skills required for a range of careers in business, including management, human resources, marketing, entrepreneurship, accounting and finance
- To offer a balance between employability skills and the knowledge essential for students with entrepreneurial, employment or academic ambitions
- To develop students' understanding of the major impact that new digital technologies have on the business environment
- To provide insight into international business operations and the opportunities and challenges presented by a global marketplace
- To equip students with knowledge and understanding of culturally diverse organisations, cross-cultural issues, diversity and values, and to allow flexible study to meet local and specialist needs



## AIMS

The Level 4 units lay the foundations of learning by providing a broad introduction to business and different business functions. By the end of Level 4, students will have sound knowledge of the basic concepts of business. They will be competent in a range of subject-specific skills as well as general skills and qualities relevant to key areas of business.

The Level 5 units give students the opportunity to specialise in a business-related occupational area and to progress to degree-level study. By the end of Level 5, students will have a sound understanding of the principles in their area of specialist study and will know how to apply those principles more widely in the business world. They will be able to perform effectively in their specialist area.

## COURSE STRUCTURE

Pearson Level 4 Higher National Certificate in Business	Pearson Level 5 Higher National Diploma in Business
<p><b>Unit 1:</b> Business &amp; the Business Environment</p> <p><b>Unit 2:</b> Marketing Essentials</p> <p><b>Unit 3:</b> Human Resource Management</p> <p><b>Unit 4:</b> Leadership and Management</p> <p><b>Unit 5:</b> Accounting Principles</p> <p><b>Unit 6:</b> Managing a Successful Business Project (Pearson Set)</p> <p><b>Unit 7:</b> Business Law</p> <p><b>Unit 9:</b> Entrepreneurship &amp; Small Business Management Study Skills</p>	<p><b>Unit 19:</b> Research Project (Pearson-set unit)</p> <p><b>Unit 20:</b> Organisational Behaviour</p> <p><b>Unit 34:</b> Digital Marketing (Specialist unit)</p> <p><b>Unit 43:</b> Business Strategy</p> <p><b>Unit 46:</b> Developing Individuals, Teams and Organisations</p> <p><b>Unit 50:</b> International Marketing</p> <p><b>Unit 53:</b> Planning for Growth</p>

## ENTRY REQUIREMENTS

For learners who have recently been in education, the entry profile is likely to include one of the following:

- Be 18 years old as a minimum
- An AVCE/GNVQ in an appropriate vocational area (e.g.: Business, Hospitality and Catering, Travel and Tourism);
- A BTEC National Certificate or Diploma in Business Studies, Hospitality Supervision, or a similar discipline;
- A GCE Advanced level profile which demonstrates strong performance in a relevant subject or an adequate performance in more than one GCE subject. This profile is likely to be supported by GCSE grades at A\* to C;
- Other related Level 3 qualifications;
- An Access to Higher Education Certificate awarded by an approved further education institution;
- A qualification was obtained in a non-English speaking country may also achieve an English test such as IELTS 5.5 or other equivalent tests as defined by the regulators.
- Related work experience;
- Pass an initial assessment test (Level 2 in literacy and numeracy with in-depth proficiency in academic writing is required). English Language Proficiency Applicants whose primary

# HIGHER NATIONAL CERTIFICATE (LEVEL 4)/ HIGHER NATIONAL DIPLOMA (LEVEL 5)

## IN HEALTHCARE PRACTICE (HEALTHCARE MANAGEMENT PATHWAY)

### OVERVIEW

This qualification is to develop students as professional, self-reflecting individuals able to meet the demands of employers in the healthcare sector. The qualification aims to widen access to higher education and enhance the career prospects of those who undertake them. Students on the course will be equipped with the Healthcare Practice skills, knowledge and the understanding necessary to achieve high performance in the global health and social care environment.

### QUALIFICATION OBJECTIVES

#### THE OBJECTIVES OF THE PEARSON BTEC HIGHER NATIONALS IN HEALTHCARE ARE AS FOLLOWS:

- To offer a balance between employability skills and the knowledge essential for students with entrepreneurial, employment or academic aspirations.
- To provide students with the context in which to consider professional ethics and their relation to personal, professional and statutory responsibilities within the industry.
- To Provide a thorough grounding in healthcare principles and a degree of specialism at Level 4 that leads the student to a range of specialist progression pathways at Level 5 relating to individual professions within the healthcare sector.
- To equip individuals with sector-relevant acumen, understanding and healthcare practice skills for success in a range of the healthcare, health promotion, navigation and non-clinical supervisory or lower management roles in healthcare.
- To enable progression to a university degree by supporting the development of appropriate academic study skills.
- To provide opportunities for students to enter or progress in employment in healthcare sector.



### AIMS

Pearson BTEC Level 4 Higher National Certificate in Healthcare Practice offers students a broad introduction to the subject area via a mandatory core of learning, while allowing for the acquisition of skills and experience through specialist pathways and the selection of optional units across a range of occupationally-relevant subjects at Level 4. This effectively builds underpinning core and specialist skills while preparing the student for further subject specialisation at Level 5. Students will gain a wide range of sector knowledge tied to practical skills gained in evidence-based practice, personal research, self-study, directed study and workplace learning and experience. At Level 4, students develop a broad knowledge and awareness of key aspects of the healthcare sector through four Core units, which includes one unit assessed by a Pearson-set assignment.

Level 5 Higher National Diploma in Healthcare Practice offers students three specialist pathways designed to support progression into relevant occupational areas or on to degree-level study. These pathways are linked to Professional Body standards (where appropriate) and can provide progression to direct employment. The Level 5 Higher National Diploma offers the following healthcare management as specialist pathway for students who wish to concentrate on a particular aspect of Healthcare Practice.

Holders of the Level 5 Higher National Diploma will have developed a sound understanding of the principles in their field of study and will have learned to apply those principles more widely. They will have learned to evaluate the appropriateness of different approaches to solving problems. They will be able to perform effectively in their chosen field and will have the qualities necessary for employment in situations requiring the exercise of personal responsibility and decision-making.

## COURSE STRUCTURE

### PEARSON LEVEL 4 HIGHER NATIONAL CERTIFICATE IN HEALTHCARE PRACTICE

- Core Unit 1: Law, Policy and Ethical Practice in Health and Social Care (15 credit unit)
- Core Unit 2: Demonstrating Professional Principles and Values in Health and Social Care Practice (30 Credit unit)
- Core Unit 3: Supporting the Individual journey through integrated Health and Social Care (15 Credit unit)
- Core Unit 4: Fundamentals of Evidence-based Practice (Pearson-set Project) (15 Credit unit)
- Core Unit 10: Developing Operational Management Skills for Healthcare Practice (15 Credit unit)
- Core Unit 17: Effective Reporting and Record-keeping in Health and Social Care Services (15 Credit unit)
- Optional Unit 13: Supporting Individuals with Specific Needs (15 Credit unit)

### PEARSON LEVEL 5 HIGHER NATIONAL DIPLOMA IN HEALTHCARE PRACTICE

- Core Unit 18: Innovation and Improvement through Action Research (Pearson-set Project) (30 Credit unit)
- Core Unit 19: Reflective Approaches in Implementing Person-centred Practice (15 Credit unit)
- Core Unit 23: Managing Quality in Care Environments (15 Credit unit)
- Core Unit 25: Facilitating Change in Healthcare Environments (15 Credit unit)
- Core Unit 29: Human Resource Management for Healthcare (15 Credit unit)
- Specialist Unit 22: Supporting Individuals through Significant Life Events (15 Credit unit)
- Optional Unit 20: Care Planning Processes in Healthcare Practice (15 Credit unit)

The Pearson BTEC Level 4 Higher National Certificate in Healthcare Practice requires at least 225 hours of work experience/placement in health and/or social care settings and a Professional Learning and Development portfolio (PLAD), including reflective accounts, to be completed.

The Pearson BTEC Level 5 Higher National Diploma in Healthcare Practice requires at least 450 hours of work experience/placement in health and/or social care settings and a Professional Learning and Development portfolio (PLAD), including reflective accounts, to be completed over the two year period of the qualification.

## ENTRY REQUIREMENTS

### STUDENTS WHO WISH TO UNDERTAKE THE HND PROGRAMME SHOULD:

- Be at least 18 years of age.
- Have at least a level 3 qualification in their specialist subject area or related qualifications such as BTEC Level 3 qualification in Health and Social Care.

GCE Advanced level profile which demonstrates strong performance in a relevant subject with adequate performance in more than one GCE subject. This profile is likely to be supported by GCSE grades at A\* to C (or equivalent) in Maths and English. Another related level 3 qualifications.

Access to Higher Education Certificate awarded by an approved further education institution.



# DIPLOMA IN EDUCATION AND TRAINING – DET (LEVEL 5)

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## OVERVIEW

The qualification is a recognised teaching qualification aimed at those who work or want to work as teachers/trainers in the further education and skills sector. It is available to learners with no previous teaching experience, or those just starting out in a teaching role and meet the entry requirements of the qualification. When you sign up for the course, you are referred to as 'trainee teacher'.

The Pearson BTEC Higher National qualifications in Business are designed to reflect the increasing need for high quality professional and technical education at levels 4 and 5. They provide students with a clear line of sight to employment and to a degree at level 6.



## QUALIFICATION OBJECTIVES

- Trainee teachers on this qualification can teach in a wide range of areas such as teaching across more than one level, teaching a variety of learners with specific needs, teaching individuals and groups and workplace mentoring. The DET qualification also aims to meet the professional needs of a wide range of trainee teachers including:
- Individuals who are not currently teaching and training but can meet the teaching practice requirements of the qualification;
- Individuals who are currently teaching and training or have just begun teaching and training and can meet the teaching practice requirements of the qualification;
- Individuals currently working as assessors who wish to achieve a teaching qualification and can meet the teaching practice requirements of the qualification

## AIMS

### BY THE END OF THE DET QUALIFICATION, YOU WILL BE ABLE TO:

- Define and analyse the different concepts of equality and diversity and inclusion;
- Implement the policies and strategies to ensure that the legislations and other regulatory frameworks relating to teaching and learning are being adhered to;
- Plan and deliver their subject area in an inclusive manner;
- Demonstrate knowledge of and ability to implement the different ways to assess learners at the different stages of their learning journey;
- Analyse the importance of continuous personal and professional development in the teaching profession;
- Demonstrate the ability to evaluate own practice in the different aspects of being a teaching professional such as planning, delivering, assessing, dealing with students' issues, managing behaviour of students and participating in the upholding of the organisational values and culture;

- Implement the different theories, models and principles of reflective practice, teaching and learning, communication, assessment and curriculum development;
- Demonstrate the ability to reflect on own wider skills and those of their learners and their impact on their motivation, confidence and achievement;
- Develop, use and organise resources for teaching and learning in an inclusive manner and in line with the related legislations;
- Evaluate the impact of the macro environment on the educational system, organisational policies and consequently own practice;
- Demonstrate the ability to plan, deliver and assess learners of different age groups.

## COURSE STRUCTURE

Unit 426: Teaching, learning and assessment in education and training.

Unit 501: Developing teaching, learning and assessment in education and training.

Unit 502: Theories, principles and models in education and training

Unit 503: Wider professional practice and development in education and training

Unit 506: Developing, using and organising resources in a specialist area

Unit 417: Inclusive practice.

Unit 423: Teaching in a specialist area.

### ADDITIONALLY YOU WILL BE REQUIRED TO:

- Complete 8 lesson observations, with 1 carried out by the DET team.
- Gain a minimum of 100 hours teaching experience, signed off by a mentor in the workplace. You will be expected to attend your work placement for at least 6 hours a week.
- The experience gained during your work placement will provide you with the knowledge and skills required for written work and class discussions.
- Your role will include leading the session with lesson plans and resources, supported by your mentor and DET team.

## ENTRY REQUIREMENTS

### STUDENTS WHO WISH TO UNDERTAKE LEVEL 5 DIPLOMA IN EDUCATION AND TRAINING (DET) PROGRAMME SHOULD

- Be at least 19 years of age;
- A degree or a relevant vocational and/or academic qualification;
- A keen interest in teaching and learning;
- A current enhanced DBS Check/Certificate - should not have a criminal background which might prevent them from working as a teacher with young people or vulnerable adults;
- Pass an initial assessment test (Level 2 in literacy and numeracy with in-depth proficiency in academic writing is required). English Language Proficiency Applicants whose primary qualification was obtained in a non-English speaking country may also achieve an English test such as IELTS 5.5 or other equivalent tests as defined by the regulators.

# LEVEL 6 DIPLOMA IN TEACHING AND LEARNING

## SUMMARY OF DISTINCTIVE FEATURES OF THE COURSE

The objective of the OTHM Level 6 Diploma in Teaching and Learning is to develop learners understanding of the theory and practice involved in education. It provides learners with an opportunity to engage with the challenges facing professionals and policy makers in their own country. It will provide knowledge that underpins the ability to work as an effective practitioner in the education sector. It combines both theoretical and practical knowledge in the education profession and will develop and enhance knowledge and skills in the areas of curriculum planning, effective performance, action research and development. Learners will be able to work in a variety of roles within education and/or management.



## LEARNING, TEACHING AND ASSESSMENT

All units within this qualification are internally assessed by the centre and externally verified by OTHM. The qualifications are criterion referenced, based on the achievement of all the specified learning outcomes.

To achieve a 'pass' for a unit, learners must provide evidence to demonstrate that they have fulfilled all the learning outcomes and meet the standards specified by all assessment criteria. Judgement that the learners have successfully fulfilled the assessment criteria is made by the Assessor.

The Assessor should provide an audit trail showing how the judgement of the learners' overall achievement has been arrived at.

## SUPPORT FOR LEARNING

- Student progression is supported both by subject tutors and also by central college services
- A comprehensive induction introducing new students to the subject, to the course and to the college facilities: e.g. Learning Resources, staff & Student Support
- College and Programme Handbooks available in print and electronic format



- Personal and academic support integrated into teaching provided by approachable lecturers and a personal tutor who monitors performance
- Study and research skills integrated into the programme
- Written electronic assignment feedback, within three weeks of assignment submission
- Up-to-date computing facilities and a modern, well-equipped Learning Resources Centre
- Virtual Learning Environment (MOODLE)
- Access to higher education specific academic support sessions
- Access to Student Support for students with welfare, financial or counselling needs
- Access to Learning Support for students with educational needs.
- Access to careers advice and support
- Regular one-to-one tutorials and target setting

## UNIT DETAILS

The OTHM Level 6 Diploma in Teaching and Learning qualification consists of 6 mandatory units, for a combined total of 120 credits, 1200 hours Total Qualification Time (TQT) and 480 Guided Learning Hours (GLH) for the completed qualification.

- Lesson Planning (20 credits)
- Reflective Teaching (20 credits)
- Management of Class Dynamics (20 credits)
- Curriculum Design (20 credits)
- Integrated Education (20 credits)
- Technology in Education (20 credits)

## ENTRY REQUIREMENTS

For entry onto the OTHM Level 6 Diploma in Teaching and Learning qualification, learners must possess:

- Relevant NQF/QCF/RQF Level 5 Diploma or equivalent recognised qualification
- Mature learners (over 21) with management experience (learners must check with the delivery centre regarding this experience prior to registering for the programme)
- Learner must be 18 years or older at the beginning of the course

### English Language Requirement

Students are expected to be able to demonstrate English language comprehension at a level equivalent to IELTS (International English Language Testing System) 5.5 to be able to study Level 5 DET

## Further Education

We offer a wide range of courses to help you craft new skills or build on existing ones. By utilising available government pots of money that are specifically budgeted for learning, we are able to provide a number of different training options. Most of our courses have no cost, and all are nationally accredited qualifications.

We are currently working in partnership with the Greater London Authority, North Tyne Combined Authority and West Yorkshire Combined Authority to help learners up skill themselves across the UK with our FE centres in London, Luton, Leeds and Newcastle.

### English and Maths Courses

Our English and Maths Functional Skills courses make sure your speaking, listening, reading and writing skills are up-to-scratch for the workforce alongside your numeracy skills being adapted for the workforce. Both courses also include employability units to further help and support your employment prospects.

### Health Care Courses

The Level 2 Diploma in Health and Social Care is for learners who work in the Health and Social Care Sector. It allows learners to develop and demonstrate competence in areas of health and social care. They will also develop technical skills, knowledge and understanding related to the specified job roles. Learners have the opportunity to take a general qualification in health and social care, or they may specialize in dementia care or learning disabilities.

The Level 3 Diploma in Health and Social Care (Adults) is for learners who work in adult care settings.

The Level 3 Diploma in Health and Social Care (Adults) is designed to show that you are competent in the area of health and social care in which you work. It is the required qualification for registration and regulatory requirements in England. You may take a general qualification in health and social care, or specialize in dementia care, learning disabilities, substance abuse and management.

### IT Professional Courses

Undertake our City and Guilds Diploma Course and learn troubleshooting and providing basic systems support for hardware and software. You will gain expert tuition with full access to lab equipment and facilities.

The City and Guilds Diploma in ICT Systems Support Level 2 will provide an excellent foundation for students pursuing a career in IT. This course provides a broad knowledge of computer hardware and operating system technologies and includes excellent practical experience of installation, configuration, fault finding, preventive maintenance and the fundamentals of computer networking.

### Accredited Short Courses

Our diverse catalogue of nationally accredited short courses brings long-term benefits to both employers and employees. Show your employer that you are an expert in your field, and give your customers and clients the best service possible. It's never too late to learn something new, and topping up your specialist knowledge will never be a disadvantage.

Level 2 Certificate in Understanding Safeguarding & Prevent

Level 2 Certificate in Equality & Diversity

Level 2 Certificate in Understanding Data Protection & Data Security

Level 2 Certificate in Understanding Nutrition & Health

Level 2 Certificate in Cleaning Principles

Level 2 Certificate in the Principles of Dementia Care

Level 2 Certificate in Prevention and Control of Infections

Level 2 Certificate in Mental Health

Level 2 Certificate In Understanding Adverse Childhood Experiences

Level 2 Certificate In Understanding Autism

Level 2 Certificate In The Principles Of Working With Individuals With Learning Disabilities

Level 2 Certificate In Understanding Children And Young People's Mental Health

Level 2 Certificate In Understanding the Safe Handling of Medication

## ACCREDITATIONS & PARTNERS

 <p>STAFFORDSHIRE UNIVERSITY</p>	 <p>City &amp; Guilds</p>	 <p>Pearson</p>
 <p>office of the independent adjudicator for students in higher education</p>	 <p>MK College</p>	 <p>ncfe.</p>
 <p>EAST SUSSEX COLLEGE</p>	 <p>Highfield awarding body for compliance</p>	 <p>West Yorkshire Combined Authority</p>
 <p>Education &amp; Skills Funding Agency</p>	 <p>NORTH HERTFORDSHIRE COLLEGE</p>	 <p>New College Swindon</p>
 <p>matrix efficiency at a glance of your future, today advice and guidance services approved by the matrix Accreditation Body</p>	 <p>disability confident</p>	 <p>Apprenticeships</p>
 <p>European Union European Social Fund Investing in jobs and skills</p>		 <p>NORTH OF TYNE COMBINED AUTHORITY</p>



# ADMISSIONS

How to Apply

Fee Structure

Admission Criteria

Rules & Regulations



# HOW TO APPLY

You can apply for admission in CECOS University through any of the following processes:

## **1-Online Application:**

You can apply online from anywhere, through the online form available at the University website [www.cecoss.edu.pk](http://www.cecoss.edu.pk)

### **Though the following procedure:**

- (a) Download the fillable pdf form available at the University website.
- (b) Fill the admission form and take the print of the same.
- (c) Deposit Rs.1,500/- admission processing fee through any mode of payment (Online Transfer/ATM Transfer/IBFT/Easypaisa/Jazzcash) in one of the following bank accounts being maintained with title of CECOS University of IT and Emerging Sciences.

JS Bank Ltd. (JSBL)9017000000971839

Faysal Bank Ltd. (FBL)01140060004449

The Bank of Punjab (BoP)6020199835300010

- (d) After depositing the fee in any of the above mentioned CECOS bank accounts, take screenshot/snap of the fee deposit proof and attach the print out of the same with admission form.
- (e) Post the form and fee slip through courier service to Admission Office, CECOS University, Sector F-5, Hayatabad, Peshawar well in time so that the same may reach the Admission office before closing date.

## **2-Paper Application:**

The interested candidates can obtain the University Prospectus and Admission form from the Main Campus of the University. The candidates have to follow the instructions given on the admission form and prospectus, fill in the form and submit the same in the Admission Cell by hand before the closing date.

In case of any query you can contact the CECOS admission team on 091-5860291-3 (Ext: 195-196) or 03450023267. The CECOS Admissions Team will be available to guide you to complete all the formalities. You can also download the prospectus from the University website [www.cecoss.edu.pk/prospectus/](http://www.cecoss.edu.pk/prospectus/)

## FEE STRUCTURE

### B.Sc Engineering (Civil)

Semester	Admission Fee	Semester Registration Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	---	190000	5000	5000	230000
Semester-II	-	15000	190000	5000	5000	215000
Semester-III	-	15000	190000	5000	5000	215000
Semester-IV	-	15000	190000	5000	5000	215000
Semester-V	-	15000	190000	5000	5000	215000
Semester-VI	-	15000	190000	5000	5000	215000
Semester-VII	-	15000	190000	5000	5000	215000
Semester-VIII	-	15000	190000	5000	5000	215000
<b>Complete Charges</b>	<b>30000</b>	<b>105000</b>	<b>1520000</b>	<b>40000</b>	<b>40000</b>	<b>1735000</b>

Note: Students of B.Sc Civil Engineering will be required to pay Rs.20000 as Survey Camp Charges in 5th Semester

### B.Sc Engineering (Electrical / Mechanical)

Semester	Admission Fee	Semester Registration Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	---	90000	5000	5000	130000
Semester-II	-	10000	90000	5000	5000	110000
Semester-III	-	10000	90000	5000	5000	110000
Semester-IV	-	10000	90000	5000	5000	110000
Semester-V	-	10000	90000	5000	5000	110000
Semester-VI	-	10000	90000	5000	5000	110000
Semester-VII	-	10000	90000	5000	5000	110000
Semester-VIII	-	10000	90000	5000	5000	110000
<b>Complete Charges</b>	<b>30000</b>	<b>70000</b>	<b>720000</b>	<b>40000</b>	<b>40000</b>	<b>900000</b>

### B.Sc Engineering Technology (Civil, Electrical and Mechanical)

Semester	Admission Fee	Tuition Fee	Total
Semester-I	20000	45000	65000
Semester-II	-	45000	45000
Semester-III	-	45000	45000
Semester-IV	-	45000	45000
Semester-V	-	45000	45000
Semester-VI	-	45000	45000
Semester-VII	-	45000	45000
Semester-VIII	-	45000	45000
<b>Complete Charges</b>	<b>20000</b>	<b>360000</b>	<b>380000</b>

Note: Students of B.Sc Engineering Technology will be required to pay Rs.2000 as Final Year Project Fee in 8th Semester.

### Bachelor of Architecture

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	120000	10000	10000	170000
Semester-II	-	120000	10000	10000	140000
Semester-III	-	120000	10000	10000	140000
Semester-IV	-	120000	10000	10000	140000
Semester-V	-	120000	10000	10000	140000
Semester-VI	-	120000	10000	10000	140000
Semester-VII	-	140000	10000	10000	160000
Semester-VIII	-	140000	10000	10000	160000
Semester-IX	-	140000	10000	10000	160000
Semester-X	-	140000	10000	10000	160000
<b>Complete Charges</b>	<b>30000</b>	<b>1280000</b>	<b>100000</b>	<b>100000</b>	<b>1510000</b>



## FEE STRUCTURE

### Doctor of Pharmacy (Pharm-D)

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	110000	10000	15000	165000
Semester-II	-	110000	10000	15000	135000
Semester-III	-	110000	10000	15000	135000
Semester-IV	-	110000	10000	15000	135000
Semester-V	-	110000	10000	15000	135000
Semester-VI	-	110000	10000	15000	135000
Semester-VII	-	110000	10000	15000	135000
Semester-VIII	-	110000	10000	15000	135000
Semester-IX	-	110000	10000	15000	135000
Semester-X	-	110000	10000	15000	135000
<b>Complete Charges</b>	<b>30000</b>	<b>1100000</b>	<b>100000</b>	<b>150000</b>	<b>1380000</b>

### Doctor of Physical Therapy (DPT)

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	80000	5000	15000	130000
Semester-II	-	80000	5000	15000	100000
Semester-III	-	80000	5000	15000	100000
Semester-IV	-	80000	5000	15000	100000
Semester-V	-	80000	5000	15000	100000
Semester-VI	-	80000	5000	15000	100000
Semester-VII	-	80000	5000	15000	100000
Semester-VIII	-	80000	5000	15000	100000
Semester-IX	-	80000	5000	15000	100000
Semester-X	-	80000	5000	15000	100000
<b>Complete Charges</b>	<b>30000</b>	<b>800000</b>	<b>50000</b>	<b>150000</b>	<b>1030000</b>

### BS Medical Lab Technology (MLT)

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	60000	5000	10000	105000
Semester-II	-	60000	5000	10000	75000
Semester-III	-	60000	5000	10000	75000
Semester-IV	-	60000	5000	10000	75000
Semester-V	-	60000	5000	10000	75000
Semester-VI	-	60000	5000	10000	75000
Semester-VII	-	60000	5000	10000	75000
Semester-VIII	-	60000	5000	10000	75000
<b>Complete Charges</b>	<b>30000</b>	<b>480000</b>	<b>40000</b>	<b>80000</b>	<b>630000</b>

### BS Software Engineering

Semester	Admission Fee	Tuition Fee	Total
Semester-I	30000	100000	130000
Semester-II	-	100000	100000
Semester-III	-	100000	100000
Semester-IV	-	100000	100000
Semester-V	-	100000	100000
Semester-VI	-	100000	100000
Semester-VII	-	100000	100000
Semester-VIII	-	100000	100000
<b>Complete Charges</b>	<b>30000</b>	<b>800000</b>	<b>830000</b>

### BSCS/ BBA/ BS Accounting and Finance

Semester	Admission Fee	Tuition Fee	Total
Semester-I	30000	90000	120000
Semester-II	-	90000	90000
Semester-III	-	90000	90000
Semester-IV	-	90000	90000
Semester-V	-	90000	90000
Semester-VI	-	90000	90000
Semester-VII	-	90000	90000
Semester-VIII	-	90000	90000
<b>Complete Charges</b>	<b>30000</b>	<b>720000</b>	<b>750000</b>

# FEE STRUCTURE

## BS Biotechnology / BS Microbiology

Semester	Admission Fee	Tuition Fee	Total
Semester-I	30000	70000	100000
Semester-II	-	70000	70000
Semester-III	-	70000	70000
Semester-IV	-	70000	70000
Semester-V	-	70000	70000
Semester-VI	-	70000	70000
Semester-VII	-	70000	70000
Semester-VIII	-	70000	70000
<b>Complete Charges</b>	<b>30000</b>	<b>560000</b>	<b>590000</b>

Note: Students of BS Biotechnology who opt for final year research / wet lab project will be required to pay Rs.15000 as project fee

## BS English

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	50000	5000	5000	90000
Semester-II	-	50000	5000	5000	60000
Semester-III	-	50000	5000	5000	60000
Semester-IV	-	50000	5000	5000	60000
Semester-V	-	50000	5000	5000	60000
Semester-VI	-	50000	5000	5000	60000
Semester-VII	-	50000	5000	5000	60000
Semester-VIII	-	50000	5000	5000	60000
<b>Complete Charges</b>	<b>30000</b>	<b>400000</b>	<b>40000</b>	<b>40000</b>	<b>510000</b>

## BS Mathematics

Semester	Admission Fee	Tuition Fee	Exam Fee	Misc Charges	Total
Semester-I	30000	40000	5000	5000	80000
Semester-II	-	40000	5000	5000	50000
Semester-III	-	40000	5000	5000	50000
Semester-IV	-	40000	5000	5000	50000
Semester-V	-	40000	5000	5000	50000
Semester-VI	-	40000	5000	5000	50000
Semester-VII	-	40000	5000	5000	50000
Semester-VIII	-	40000	5000	5000	50000
<b>Complete Charges</b>	<b>30000</b>	<b>320000</b>	<b>40000</b>	<b>40000</b>	<b>430000</b>

## Summer Semester Fee

B.Sc Engineering / B. Architecture/ PharmD /BSCS / BBA BS Software Engineering / BS Accounting and Finance / DPT	B.Sc Technology	BS Microbiology / BS Biotechnology BS MLT / BS English / BS Mathematics
<b>12000</b> per subject	<b>6000</b> per subject	<b>8000</b> per subject

## Hostel Fee

Admission Fee	Security (Refundable)	Rent	Mess Charges	Electricity Charges (For using Room Cooler)	Gas Charges (For using Room Haeter)
<b>5000</b> (once)	<b>10000</b> (once)	<b>*6500</b> (Per Room/Per Month)	<b>5000</b> (Per Room/Per Month)	<b>5000</b> (Per Room/Per Month)	<b>5000</b> (Per Room/Per Month)

\*6 Months advance Rent will be charged along with Semester Fee

## Tarnsport

3500 per month (4 Months advance Rent will be charged along with Semester Fee)

## Note:

- 1- The fee structure is subject to change on inflationary basis / other reasons.
- 2- The fee structure is exclusive of levies and taxes.
- 3- Advance income tax at 5% will be imposed on courses where fee exceeds Rs.200000/- per annum.
- 4- Fine will be imposed on submission of fee after due date.
- 5- There will be separate fee structure (in US Dollars) for foreign nationals, for each degree programmes.

# ADMISSION REGULATIONS

## 1. GENERAL

Admission to any program in this University shall be made strictly on merit and will be equally open to both sexes. The University, however, reserves its right to devise quotas and preferences when circumstances require such action.

## 2. ADMISSION TO B.Sc ENGINEERING PROGRAM

### 2.1 ELIGIBILITY

- a) Admission to B.Sc Engineering shall be open to the candidates who have passed the Higher Secondary School Certificate (HSSC) Pre-Engineering Examination with Physics, Chemistry and Mathematics, securing at least 60% marks in aggregate.
- b) A candidate having passed any other examination of a Foreign University / Institution / Examination body, with both standard as well as scope wise equivalent to the Higher Secondary School Certificate (Pre-Engineering) will have to produce equivalence and conversion of marks certificate issued by the Inter Board Committee of Chairmen (IBCC), Government of Pakistan, Ministry of Education, with the application form.
- c) A candidate who has passed Diploma of Associate Engineer Examination, securing at least 60% aggregate marks, shall be eligible for admission in the relevant discipline of Engineering in which he or she has passed the Diploma examination only against the specified reserved seats.
- d) The eligibility so prescribed hereinbefore shall always remain subservient to the requirements so laid by the Pakistan Engineering Council on the subject.
- e) Apart from the aforementioned criteria, the desiring candidate may also be subjected to any pre-admission test, taken directly or through any third party testing service.
- f) The University reserves the right to refuse admission, even in case a student fulfils all the requirements / eligibility, without disclosing any reason.

### 2.2 ENTRY TEST

All the eligible candidates applying for admission to B.Sc. Engineering program will have to appear in the Entry Test conducted by Education Testing & Evaluation Authority (ETEA), Government of Khyber Pakhtunkhwa. The candidates applying from other provinces (other than KPK) will have to qualify the Centralized Entry Test of their respective provinces.

### 2.3 DETERMINATION OF MERIT

The merit of the candidates will be determined according to the following weightage:

- |  |                            |
|--|----------------------------|
| a) 10% weightage to S.S.C. Examination (Matric)  | SSC % marks x 0.1          |
| b) 40% weightage to Intermediate (Pre-Engg) or equivalent examination (unadjusted marks) | Intermediate % marks x 0.4 |
| c) 50% weightage to ETEA test  | ETEA Test % marks x 0.5    |

## 3. ADMISSION TO B. ARCHITECTURE PROGRAM (5 YEARS NON ENGINEERING PROGRAM)

### 3.1 ELIGIBILITY

- a) Admission to Bachelor of Architecture Program shall be open to the candidates who have passed the Higher Secondary School Certificate (HSSC) Examination from a recognized Board of Intermediate and Secondary Education in Pakistan with at least 45% marks in aggregate.
- b) The eligibility shall remain subject to any rules / regulations, so prescribed by PCATP.

### 3.2 ENTRY TEST

Admission test is a compulsory requirement and it will be specially designed test to assess the aptitude of the



# ADMISSION REGULATIONS

student in the Architecture. All the candidates will be required to pass this admission test in order to become eligible for admission in this program.

## 3.3 DETERMINATION OF MERIT

The merit of the candidates will be determined according to the following weightage:

- |   |                            |
|---|----------------------------|
| a) 10% weightage to S.S.C. Examination (Matric)                               | SSC % marks x 0.1          |
| b) 40% weightage to Intermediate or equivalent examination (unadjusted marks) | Intermediate % marks x 0.4 |
| c) 50% weightage to entry test.   | Entry Test % marks x 0.5   |

## 4. ADMISSION TO DOCTOR OF PHARMACY PROGRAM (5 YEARS PROGRAM)

### 4.1 ELIGIBILITY

- Admission to Doctor of Pharmacy (Pharm-D) Program shall be open to the candidates who have passed the Higher Secondary School Certificate (HSSC) Pre-Medical or equivalent Examination from a recognized Board of Intermediate and Secondary Education with at least 60% marks in aggregate.
- The eligibility shall remain subject to any rules / regulations, so prescribed by Pharmacy Council of Pakistan.

### 4.2 ENTRY TEST

Admission test is a compulsory requirement and it will be specially designed test to assess the aptitude of the student in the field of Pharmacy. All the candidates will be required to pass this admission test in order to become eligible for admission in this program.

### 4.3 DETERMINATION OF MERIT

The merit of the candidates will be determined according to the following weightage:

- |   |                            |
|---|----------------------------|
| a) 10% weightage to S.S.C. Examination (Matric)                               | SSC % marks x 0.1          |
| b) 40% weightage to Intermediate or equivalent examination (unadjusted marks) | Intermediate % marks x 0.4 |
| c) 50% weightage to entry test.   | Entry Test % marks x 0.5   |

## 5. ADMISSION TO OTHER UNDERGRADUATE PROGRAMS

Admission criteria for other undergraduate programs (other than B.Sc Engineering and Bachelor of Architecture) shall as under:

### 5.1 ELIGIBILITY

- BSCS / BS Software Engineering (Hons) – 4 years program**

#### Pre-Requisite:

- Intermediate (HSSC) with Mathematics or equivalent qualification with Mathematics certified by IBCC with at least 50% marks or intermediate without mathematics with the condition to clear two additional courses of mathematics in 1st and 2nd semester.
- Having passed CECOS / NTS Entry Test.

- BBA (Hons) – 4 years program**

#### Pre-Requisite:

- Intermediate or equivalent qualification with at least 45 % marks.
- Having passed CECOS / NTS Entry Test.

**c) BS Accounting and Finance – 4 years program****Pre-Requisite:**

- i) Intermediate or equivalent qualification with at least 45 % marks.
- ii) Having passed CECOS / NTS Entry Test.

**d) B.Sc Technology- B.Tech (Civil, Electrical, Mechanical) – 4 years program****Pre-Requisite:**

- i) Intermediate (HSSC) Pre-Engineering or DAE in relevant field or equivalent qualification with atleast 50% marks.
- ii) Having passed CECOS / NTS Entry Test.

**e) BS Biotechnology – 4 years program****Pre-Requisite:**

- i) Intermediate (HSSC) Pre-Medical or equivalent qualification with at least 50% marks.
- ii) Having passed CECOS / NTS Entry Test.

**f) BS Microbiology – 4 years program****Pre-Requisite:**

- i) Intermediate (HSSC) Pre-Medical or equivalent qualification with at least 50% marks.
- ii) Having passed CECOS / NTS Entry Test.

**g) Doctor of Physical Therapy – 5 years program****Pre-Requisite:**

- i) Intermediate (HSSC) Pre-Medical or equivalent qualification with at least 60% marks.
- ii) Having passed admission interview

**h) BS Medical Lab Technology – 4 years program****Pre-Requisite:**

- i) Intermediate (HSSC) Pre-Medical or equivalent qualification with at least 50% marks.
- ii) Having passed admission interview

**i) BS English – 4 years program****Pre-Requisite:**

- i) Intermediate or equivalent with at least 45% marks; preference will be given to students who have studied English Advanced in their Intermediate.
- ii) Having passed CECOS / NTS Entry Test

**j) BS Mathematics – 4 years program****Pre-Requisite:**

- i) Intermediate with mathematics or equivalent with at least 50% marks or 60% marks in DAE.
- ii) Having passed CECOS / NTS Entry Test

# ADMISSION REGULATIONS

## 5.2 DETERMINATION OF MERIT

The merit of the candidates will be determined according to the following weightage:

- |   |                            |
|---|----------------------------|
| a) 10% weightage to S.S.C. Examination (Matric)                               | SSC % marks x 0.1          |
| b) 40% weightage to Intermediate or equivalent examination (unadjusted marks) | Intermediate % marks x 0.4 |
| c) 50% weightage to entry test.   | Entry Test % marks x       |

## 6. ADMISSION PROCEDURE (ALL UNDERGRADUATE PROGRAMS)

- 6.1 All the eligibility criteria shall always remain subject to the relevant accrediting / registering body.
- 6.2 Cases of doubtful or undefined equivalence of any academic qualification, may be considered by the University Equivalence Committee. If deemed necessary, the Committee may also consult other organizations/ authorities of Pakistan that deal with the subject and determine equivalence of foreign Degrees and Certificates.
- 6.3 The University Admission Committee, may in its discretion refer cases to IBCC for determination / weightage of any academic qualification.
- 6.4 Candidates selected for admission shall produce the following documents in original along with one set photocopy for verification at the time of interview / admission :
- Detailed Marks Certificate and Certificate of SSC or equivalent examination.
  - Detailed Marks Certificate and Certificate of Intermediate examination. In case the examination consists of Part-I and Part-II, detailed marks certificates of each Part shall be submitted.
  - Character certificate from the Head of Institution most recently attended by the applicant in Pakistan.
  - An equivalence certificate from the Inter-Board Committee of Chairmen, Government of Pakistan, Ministry of Education, Islamabad, in case of candidates having certificate from an institution outside Pakistan. This however does not guarantee equivalence for admission unless confirmed by the University Equivalence Committee.
  - CNIC or Form "B" of the applicant and CNIC of his/her father.
  - Three recent passport size photographs of applicant.
  - Undertaking on a Non-Judicial Stamp Paper worth Rs. 50/- (Rupees fifty only), for non indulgence in any unlawful activity, duly attested by the oath commissioner as per prescribed proforma.
  - Original Migration Certificate from the concerned BISE/BTE /University last attended.
  - Permission and Leave Certificate from the employer in case the applicant is employed anywhere.
- 6.5 All applications shall be delivered in the admission office on or before the last date given in the advertisement / admission schedule.
- 6.6 Every application should be accompanied by a declaration signed by the applicant and countersigned by his/her father or guardian (as the case may be) to the effect that he/she would abide by the rules and regulations of the university and obey instructions issued to him/her from time to time by the Teacher,
- 6.7 A candidate having passed any other examination of a Foreign University / Institution / Examination body, with both standard as well as scope wise equivalent to the Higher Secondary School Certificate (Pre-Engineering) will have to produce equivalence and conversion of marks certificate issued by the Inter Board Committee of Chairmen (IBCC), Government of Pakistan, Ministry of Education, with the application form.
- 6.8 After declaration of results of Entry Test, Admission Committee shall consider all valid applications received for admission. The Admission Committee will process the applications according to the criteria of admission and availability of seats.



- 6.9 Candidates provisionally selected by the Admission Committee may be called for interview / admission on a specified date. The selected candidates shall be required to deposit the University dues and complete the admission formalities including the filling of the prescribed class enrolment form by a specified date failing which his / her right for admission shall be forfeited and the seat(s) so vacated shall be filled in from the candidate(s) on waiting list.
- 6.10 The admissions will be provisional and shall not mean any commitment or entail any legal liability till all the original certificates have been checked for their correctness by the quarters concerned and the admission is otherwise confirmed by the admission committee in writing.
- 6.11 If any seat remains vacant in a discipline after the specified date, it will be filled up within thirty days of the commencement of classes by adjustment in the merit list strictly according to the choice(s) given in the admission form.
- 6.12 If a seat becomes available due to cancellation of admission after commencement of classes, it may be filled up by adjustment from among the students already admitted in the University; provided that no such adjustment may be allowed after thirty days of the commencement of the classes.
- 6.13 Within thirty days of the last date of admission, particulars of candidates such as Name, Parentage (as per SSC), Domicile, Date of birth, Examination passed and the course to which the candidate has been admitted shall be reported to the Vice Chancellor on the prescribed form along with the recommendations of the Admission Committee for approval. After the approval of the Vice Chancellor and payment of all the prescribed dues, the name of the candidate shall be entered in the Students Register by the Controller of Examinations and registration card issued to him/her in token thereof.
- 6.14 Documents once submitted with application form cannot be changed and shall be considered as final. All the documents shall be verified from the concerned Boards/ Institutions, if desired by the CECOS University.
- 6.15 The Merit / Selection list will be displayed on the University Notice Board and the website of the University and it will be responsibility of individual candidate to check his status and meet the admission deadlines.
- 6.16 University Authorities reserve the right to make amendments in Admission Regulations at any stage. As a result of inadvertent mistake on the part of admission office shall not confer any right of admission of the candidate.
- 6.17 University reserves right to cancel any admission without assigning any reason at any stage.
- 6.18 The University may also cancel admission so granted to a student in case his documents / particulars are found fake / false or due to change in eligibility criteria retrospective or prospectively. In such an eventuality, the student shall have no vested right due to his time, efforts consumed and fee deposited.
- 6.19 Admission of any student is liable to be cancelled if his / her conduct at any stage is found unsatisfactory.
- 6.20 Students admitted in any program shall not be allowed to participate in any political or union activities.
- 6.21 The facility of hostel accommodation and transport to students shall be subject to availability of seats.
- 6.23 If any of the particulars given by the student in his / her application form are found incorrect or facts suppressed, his / her admission shall be refused. If any incorrect or false statement or suppression of fact is detected after a candidate has been granted admission, his / her admission shall be cancelled and he / she will be expelled from the University by the Vice Chancellor at any time during the course of his / her studies.
- 6.24 A candidate who is already a bonafide full time student in some other institution is ineligible to apply for admission in the University. If such case is detected his / her admission in the University shall be cancelled.
- 6..25 A candidate convicted by a Court of Law on the grounds of moral turpitude or awarded Sentence in Jail, is ineligible for admission.

## 7. RE-ADMISSION

- 7.1 If a student on rolls of the University remains absent from classes continuously for a period of 30 days, his/her name shall be struck off the rolls of the university by the Head of concerned Department, with the prior approval of the Competent Authority. Such a dropped student may be re-admitted in the same semester as and when it is offered

## ADMISSION REGULATIONS

next time, if the authorities are satisfied that the absence was not willful and was due to circumstances beyond human control

- 7.2 Re-admission shall not be allowed if the time gap between leaving and re-admission is more than two academic years.
- 7.3 A student who has obtained Migration Certificate from CECOS University but has not secured admission in another University may be readmitted to CECOS University if allowed by the Vice Chancellor provided his / her absence does not exceed 15 days and he/she surrenders the Migration Certificate issued to him / her.
- 7.4 Re-admission shall be allowed subject to payment of prescribed fee.

### 8. TRANSFER OF CREDIT HOURS

#### 8.1 Transfer of Credits from other Universities / Institutions

- a) The President / Vice Chancellor may admit a student to the University by credit transfer from other Universities or Institutions upon the recommendations of the Credit Transfer Committee of the University.
- b) Credit transfer shall not be allowed ordinarily after expiry of two (2) weeks from the commencement of the classes (semester).
- c) Credit transfer shall only be allowed provided the student seeking credit transfer to CECOS University is still on the rolls of parent University / college / institute.
- d) No student shall be allowed credit transfer from a University or Institution in Pakistan unless he / she produces a certificate of good moral character and a certificate to the effect that the student has neither been debarred from taking University examination nor suspended, expelled or rusticated from the university/college/institution from which he / she intends to transfer credits and that no disciplinary action is pending against him / her.
- e) Students from a Chartered University / Degree Awarding Institution, recognized by Higher Education Commission and accredited by the respective regulatory bodies can only be considered for credit transfer to the concerned degree program of CECOS University.
- f) Credits will be transferred on course to course basis i.e. a person taking course A at University X is allowed to transfer his/her credits to CECOS University provided that course A is equivalent to course B taught at the CECOS University.
- g) The credit will be transferred if the Head of the Department concerned is agreeable to accept the applicant considering physical facilities in the department and the evaluation of academic record. Contents of each Course of the parent University must match 75% contents of corresponding course of this University.
- h) Only Public sector and centralized entry tests of university will be acceptable for credit transfer cases.
- i) For Foreign University Transfer Students, only those cases will be entertained which are listed by the HEC/Accreditation Bodies for the relevant discipline/program.
- j) Promotion to every next semester will be subject to fulfillment of promotion condition of minimum required GPA / CGPA and total 'F' grades.
- k) A transferring student must have a regular admission at CECOS University and should earn a minimum of 60 credit hours out of a total of 130–140 credit hours from CECOS University for award of degree. A student seeking transfer of credits in undergraduate Engineering Programs must possess credits of the relevant accredited program and transfer credit shall not exceed 50% of program total credits required.
- l) To meet minimum eligibility criteria for credit transfer, the student must have passed his/her previous semesters at his Parent University with minimum 2.00 CGPA. Upto four backlog courses with a maximum of two "F" grades will be allowed in comparison with the course curriculum of CECOS University. The passed courses with a minimum "C" Grade will only be transferred which correspond to courses offered by CECOS University or equivalent in depth and intensity.
- m) An application for admission on credit transfer basis shall be accompanied by Detailed Syllabi and Detailed Marks

Certificate showing the examinations passed in the preceding semesters and Intermediate/Graduation examination on the basis of which he / she secured original admission in the parent University or Degree Awarding Institute.

- n) The deficient subjects of that class/ semester must be notified as his/her backlog, which he / she must pass alongwith the later classes / semesters. Additional tuition fee will be payable for the deficient subjects / courses in which he / she actually attends the classes.
- o) Upon credit transfer to CECOS University, the student will be exempted from studying those courses which S/he has passed in advance from his/her Parent University/Institution provided that such courses correspond to courses offered by CECOS University or equivalent in depth and intensity
- p) Credit transfer application will only be entertained on the prescribed application form available at the Admission Office on payment. The admission will be allowed on the production of original Migration Certificate/NOC issued to him / her by the University / College / Institution.
- q) The request for credit transfer will be sent to Registrar who will refer it to the relevant Department for course evaluation and provision for admitting student. After initial evaluation, the HoD will send the case to the Convener of Credit Transfer Committee which will consider the case in a formal meeting and will send its final recommendations to the Registrar for getting approval from the President of CECOS University through Vice Chancellor. Upon Approval, the Registrar office will issue notification of credit transfer of student to CECOS University in the relevant degree program.
- r) CECOS authorities reserve the right to reject cases without assigning any reason.
- s) Upon credit transfer, the transferring student shall be bound by all the rules and regulations of the University and shall submit the undertaking(s) otherwise given by the ordinarily admitted students.

**8.2 Credit Transfer to other Universities / Institutions**

- a) A student desiring to leave CECOS University in order to join another University or Institution shall apply to the Head of the respective Department on the prescribed form and will deposit the prescribed fee.
- b) No NOC / Migration Certificate shall be issued for credit transfer unless the student has cleared all the University dues including full fee of the running semester.
- c) In case of a student who has been debarred from taking University Examination or has been expelled or rusticated, from the University, no Migration certificate shall be allowed as long as the punishment is in force.
- d) A student who has obtained Migration Certificate for credit transfer from CECOS University but has not secured admission in another University may be readmitted to CECOS University if allowed by the Vice Chancellor provided his / her absence does not exceed 15 days and he/she surrenders the Migration Certificate issued to him / her.

**9. REFUND POLICY**

9.1 Admission Fee paid by the student at the time of admission will not be refundable.

9.2 The Tuition Fee refund policy of the University is as under:

%age of Tuition Fee	Time line For Semester / Trimester System	Time line For Annual System
Full (100%) Tuition Fee Refund	Up to 7th day of convene of classes	Up to 15th day of convene of classes
Half (50%) Tuition Fee Refund	From 8th to 15th day of convene of classes	From 16th to 30th day of convene of classes
No Fee (0%) Refund	From 16th day of convene of classes	From 31st day of convene of classes

**10. SPECIAL PROVISIONS**

10.1 Interpretation of these Rules by the authorized officers of the University shall be final. In all cases where these regulations are silent, the decision of the President / Board of Governors of the University shall apply.



## ADMISSIONS REGULATIONS

- 10.2 The University /Institution authorities reserve the right to make any change in the existing Statutes, Regulations, Rules and Courses of study that may be considered necessary at any time without prior notice.
- 10.3 If any of the particulars given by the candidate in his/her application for admission are found incorrect or facts suppressed, he/she shall be refused admission. If any incorrect or false statement or suppression of facts is detected after a candidate has been granted admission, the admission shall be cancelled and he/she shall be expelled from the Institution/College and shall be liable to any other disciplinary or legal action, the Management may deem fit. A student shall be expelled from the Institution/College, if during the course of his/her studies, it is found that he/she was not entitled to admission in the Institution/College. Further, the fees and other user charges deposited by him/her shall stand forfeited.
- 10.4 In case a student enrolled in the Institution/College is also found to be a student of some other Institution, his/her admission in this Institution/College shall be cancelled.
- 10.5 Those candidates, who are employed in some organizations, must produce a permission letter from the employer at the time of their admission, clearly affirming that they shall be on leave from duty, for the daily study hours (6 hrs/day, 6 days/week) during the full duration of the course.
- 10.6 The Rules and Regulations pertaining to admission, promotions, maintenance of discipline etc. contained in the University Prospectus shall apply to all the students admitted during the session. However, any change / alteration, if deemed necessary shall be made by the University authorities and will be applicable from the date the Management so desires.
- 10.7 A student will cease to be a regular student as soon as the final semester examination immediately following the academic session, in which he/she was a regular student, concludes. Such a student shall not be entitled to privileges permissible to regular students.
- 10.8 The students are required to know the rules and regulations mentioned in the University Prospectus and notified from time to time. Ignorance of the rules and regulations shall not be an excuse for claiming any relaxation in this regard.
- 10.9 In case of any litigation, the cost thereto shall always be borne by the student who shall make out the same as his dues towards University.
- 10.10 The University assumes no responsibility what so ever if any loss of life is occurred or the student(s) get(s) harmed or injured during the course of studies in the University premises, hostel(s), survey camp or on the study / excursion tours.

### 11. FEE CONCESSION POLICY

- 11.1 50% concession in Tuition Fee to the employees of CECOS University and its Constituent Institutions / Colleges (who have completed the probation period) in courses of studies offered under the evening/weekend programs (only one course).
- 11.2 40% concession in Tuition Fee to sons / daughters of the Full Time Regular (who has completed the probation period) employees of the University (only one at one time).
- 11.3 20% concession in Tuition Fee to real brothers / sisters of the Full Time Regular (who has completed the probation period) employees of the University (only one at one time), on case to case basis.
- 11.4 30% Tuition Fee concession to students securing 1st, 2nd & 3rd position in BISE / BTE / University examinations (on overall result basis).
- 11.5 20% Tuition Fee concession to all female students.
- 11.6 20% Tuition Fee concession to kinship (brother / sister concession).
- 11.7 15 % Tuition Fee concession to the Sons / Daughters of Armed Forces personnel (including retired personnel).

**Note: A student can however avail only one of the above mentioned concessions at a time.**

# EXAMINATION RULES & REGULATIONS

## PART-I APPLICABLE TO ALL UNDERGRADUATE PROGRAMS

### 1. STANDARDIZED FORMAT OF SCHEME OF STUDIES

Nomenclature of Degree	Minimum Duration	Credit Hours (Minimum)
B.Sc Engineering	4 Years	133
B.Sc Engineering Technology	4 Years	130
BS (CS) / BS Software Engineering / BBA/ BS Accounting and Finance	4 Years	130
BS Biotechnology / BS Medical Lab Technology/ BS Microbiology	4 Years	130
BS English / BS Mathematics	4 Years	130
Bachelor of Architecture	5 Years	174
Doctor of Pharmacy	5 Years	198
Doctor of Physical Therapy	5 Years	160
Semester Duration	16-18 Weeks (including examination)	
Number of Regular Semester	2 in one Calendar year	
Number of Summer Session	1 in one Calendar year	
Course Load per Semester	15-18 credit Hours	

### 2. MEDIUM OF INSTRUCTIONS

- 2.1 The medium of instruction and examination shall be English except Islamiyat and Pakistan Studies.
- 2.2 Courses of studies are subject to changes and modifications by the relevant bodies of the University in the light of the guidelines of Higher Education Commission and relevant accreditation bodies.

### 3. CREDIT HOURS

- 3.1 A credit hour means teaching/earning a theory course for one hour each week throughout the semester.
- 3.2 One credit hour in laboratory or practical work/project would require lab contact of three hours per week throughout the semester.
- 3.3 The credit hours will be denoted by two digits within brackets with a hyphen/plus in between. The first digit will represent the theory part while the second (right side) digit will represent the practical.
- 3.4 Thus 3(3+0)/3(3-0) means three credit hours of theory, while 4(3+1)/4(3-1) means a total of four credit hours, of which three will be of theory while one credit hour will be for laboratory/studio work/field work/practical work supervised and graded by the faculty, and 4(1+3)/4(1-3) means a total of four credit hours, of which one will be of theory while three credit hours will be for laboratory/studio work/field work/practical work as per requirement of discipline.

### 4. COURSE LAYOUT

- 4.1 All undergraduate degree programs will be composed of minimum 130. The Minimum credit hours for 5-year degree program will be 160. The minimum and maximum credit hours are subject to meeting the requirements of the respective Accreditation Councils.
- 4.2 In undergraduate degree programs, major courses will be classified into two categories.
- 4.3 Foundation or core courses
- 4.4 Elective (courses from area of specialization/major study)

# EXAMINATION RULES & REGULATIONS

- 4.5 78-87 credit hours must be earned taking a sequence of introductory, intermediate and advanced level courses prescribed for the major area of concentration that means foundation and elective (courses of area of specialization).

### For Social and Basic Sciences

The courses for Social and Basic Sciences disciplines will consist of 60-65% of curriculum towards the discipline specific areas.

### For Engineering/Technology Programs

While for the Engineering/technology program these will consist of 65-70% of curriculum towards the discipline specific areas of concentration as required by Accreditation Councils. All Undergraduate programs have a required component of 8-9 courses of 22-25 credit of General Education.

- 4.6 An Undergraduate Degree Program will usually include theory courses, community work/thesis/research report/project and internship.
- 4.7 Theory: A theory course will consist of 03 to 04 credit hours as per requirement of discipline.

Course	Duration of Classes
Theory Course of 03 Credit Hours	3 classes of 01 hour per week or 2 classes of 1.5 hour per week or 1 class of 03 hours class per week
Practical (Lab)Work/Field Work of 01 Credit Hours	03 hours per week

- 4.8 Project: Every student should write a project report/thesis/research report/project/ internship in the final year up to maximum of 06 credit hours individually on a research topic approved by Faculty.
- 4.9 Internship: Students should be encouraged to do internship in a relevant academic, research or business organization relating to the discipline chosen for specialization of maximum of 3 credit hours offered in any upper division semester as per requirement of discipline.

## 5. FALL/SPRING SEMESTER

There will be two regular semesters (fall, spring) in an academic year. Fall/Spring semesters will spread over 16-18 weeks (inclusive of 1 – 2 weeks for exams). Summer Semester will be of 8 – 9 weeks of concentrated study for completing remedial course work.

## 6. SUMMER SEMESTER

- 6.1 Summer semester will be offered as an optional semester of 08-09 weeks duration. Students will be offered courses to remove deficiencies and can enroll in up to a maximum of 09 credit hours during summer.
- 6.2 Moreover, a student who has either failed or has been stopped to take the examination due to shortage of class attendance or wishes to improve his/her grade will be allowed to register in summer.
- 6.3 The contact hours per week during the Summer Semester will be doubled to ensure that the course is completely taught in a summer session with half of the duration as compared to a regular (Fall/Spring) semester.



- 6.4 To offer a course in Summer Semester, the minimum number of students should be 5 or above.
- 6.5 No "A" grade shall be given in Summer Semester. "C+" grade will be used as Class Mean.
7. COURSE LOAD FOR FALL AND SPRING SEMESTERS
- 7.1 An undergraduate program of instruction generally includes a 15-18 credit hours course load, except PharmD program that ranged 18-22 credit hours, including exams in a regular semester. The required course load for a full time undergraduate is minimum of 15 credit hours per semester.
- 7.2 In case any student wishes to enroll for one more course beyond 18 cr. Hours s/he may be allowed by institution in either of the two cases:
- 7.2.1 If his/her CGPA is above 3.5 and
- 7.2.2 The student needs the course to graduate on time
- 7.3 A student under probation or conditionally promoted (see para-23) shall not be allowed to take more than 15 credit hours. Fee at prescribed rate will be charge in repeat / summer semester for the course(s) which are dropped from the student(s) due to probation. However, in case of PharmD program, a course of minimum 3 credit hours will be dropped from the student(s) who is/are on probation or conditionally promoted as their credit hours varies from 18-22 credit hours. Furthermore, no student will be offered a Lab course if a theory of same course is dropped from the student.
- 7.4 The Head of Department may also allow maximum course load of 18 credit hours to any student when he/she is graduating in that very semester.
- 7.5 Students will only be allowed to take repeat courses in regular semester if they are in Final year of their degree Program or those who are:
- 7.5.1 Relegated Students
- 7.5.2 Migrated Students
- provided that total number of credit hours in one semester must not exceed 18 credit hours in case of promoted student and 15 credit hours in case of on probation / relegated student, at one time in regular semester. No additional fee will be charged for repeating courses in regular semester except relegated and migrated students.

## 8 ACADEMIC CALENDAR

- 8.1 The University will publish an Academic Calendar including schedule of its whole academic year (including fall, spring semesters) which will include the following information:
- 8.1.1 Semester starting date.
- 8.1.2 Holidays during the semester.
- 8.1.3 Semester termination date.
- 8.1.4 Mid-Term exam week
- 8.1.5 Final exam week.
- 8.1.6 Result notification and online transcript issues dates. Each transcript will have course grades, semester Grade point average (GPA) and cumulative GPA (CGPA).
- 8.2 In case the university is closed due to unusual circumstances, then special makeup classes must be arranged converting weekends or holidays to working days to cover the lapsed period of the students.

## 9 ENROLLMENT/REGISTRATION / WITHDRAWAL OF COURSES

- 9.1 A student must register for all courses in the semester within 7 days of the commencement of the semester.

# EXAMINATION RULES & REGULATIONS

- 9.2 student, with the consent of the concerned Dean / Head of Department, may be allowed to:
- a) Add/Change a course within 14 days of the commencement of semester.
  - b) "A student, with the consent of the concerned Dean / Head of department, may be allowed to:
    - i) Add/change a course within 14 days of the commencement of semester.
    - ii) Drop a course within 4 weeks of the commencement of semester.
- No Summer / Repeat Fee will be charged for those courses which are dropped by students within 4 weeks of the regular semester. However, this exemption will be for their first attempt of dropped course(s).
- 9.3 Students may withdraw from one or more courses upto 6th week of Semester with the approval of the Head of respective department. Approval of the withdrawal shall be sent to the Controller of Examinations immediately. In case of withdrawal of the course (s), no fee shall be refunded. Fee at prescribed rate will be charged for repeating the courses withdrawn.
- 9.4 In case of withdrawal, grade W will be awarded to the student which shall have no impact on the calculation of the CGPA of the student.
- 9.5 A student can withdraw upto maximum of seven (7) courses at a time throughout his/her degree program.
- 9.6 Those students who withdraw all courses in a semester at one time shall be liable to repeat the same semester to become eligible for promotion in the next semester.
- 9.7 A student withdrawing after the 6th week shall be automatically awarded "F" grade which shall count in the GPA and stay on the transcript.

## 10 REPEATING COURSES / IMPROVEMENT OF CGPA

- 10.1 If a student gets 'F' grade, s/he will be required to repeat the course or its recommended alternate, if any. However, "F" grade obtained earlier will also be recorded on the transcript.
- 10.2 Students may be allowed to repeat a course in which s/he has obtained grade below "C". In such a case both the previous and new grade obtained will be recorded on the transcript, however, only the better grade shall be used in the calculation of CGPA.
- 10.3 A maximum number (<6) courses, except failed courses, will be allowed to repeat in a degree program.
- 10.4 In case of CGPA improvement, it would be recorded with (Imp) on the transcript.

## 11 ATTENDANCE

- 11.1 A student must have attended at least 75% of the classes held in a course in order to be allowed to sit in the final examination.
- 11.2 Student having class attendance less than 75% in a particular course will be required to repeat the course when offered again.
- 11.3 Willful absence from classes for a period of four weeks at a stretch during a semester/summer session shall result in automatic cancellation of the registration of a student from all courses in that semester/summer session.
- 11.4 Only actual attendance in classes shall be considered in calculating the shortage of attendance and no concession in the attendance requirements shall be given on the basis of leave applications including leave on medical grounds. The attendance shall be rounded upto two decimal places only.
- 11.5 There shall be no makeup classes in order to make up the shortage of attendance of any particular student.
- 11.6 The instructor may report a student's absences and the student may be placed on attendance probation by his/her

dean/HOD and it will be notified to the student by the concerned department. A student may be dropped from the University for violating the terms of such probation.

## 12 EXAMINATION

- 12.1 In each semester, students may be required to appear in quizzes, tests, mid term, final examination, presentations (individual/group), group discussion, and submit projects/assignments/lab reports etc. These assessment marks will have different weightage contributing towards the overall assessment in aggregate percent marks. This weightage for aggregate percent marks may be determined on the basis of following guidelines:

Course (Theory)		Course (Lab)	
Nature of Examination	Weightage	Nature of Examination	Weightage
Quizzes/Assignments/Presentations/Projects	25 %	Lab work (includes Lab assessment, attendance, quizzes and assignments)	30 %
Mid-Term Exam	25 %	Mini Project	20 %
Final-Term Exam	50 %	Lab Exam	50 %

The distribution of Sessional Marks (Quizzes / Assignments / Presentations / Projects and Mid Semester exam) will be as under:

- |    |                              |          |
|----|------------------------------|----------|
| a) | 4 Assignments per subject    | 10 marks |
| b) | 4 Quizzes per subject        | 10 marks |
| c) | One Presentation per subject | 05 marks |

- 12.2 Students passing in all the papers (theory and Lab to be treated as separate papers) shall be declared to have passed the examination.
- 12.3 There will be no supplementary / special exam in semester system; if a student fails any course he/she will have to repeat that course.
- 12.4 In case of any litigation pending, involving the student and university in respect of any dispute regarding eligibility to appear in any examination or affecting the student(s)' performance in the examination, the university shall have a right to postpone the result of such examination in respect of the student concerned and would declare such result only upon the final settlement of the dispute if other rules and regulations allow such settlement.
- 12.5 In case, a student is allowed to attend classes or sit in any examination provisionally / as an interim measure by the order of any judicial or other authority, including a court of law, university shall have the right to postpone the declaration of his / her result pending final determination of the dispute where for the proceedings were initiated and such provisional / interim steps were ordered. In case the determination is to the effect that the student was not eligible to take such examination, the university shall have the further right to cancel the examination(s)/paper(s) provisionally taken under the interim order(s).

## 13 GRADING POLICY

### 13.1 RELATIVE GRADING

- 13.1.1 Grade Point Average (GPA) system will be adopted for the evaluation of students in all subjects based on the relative grading system. If number of students in a course are 20 or more, then Relative Grading System will be implemented.
- 13.1.2 For relative grading the grades shall be determined as below:
- The aggregate marks of each student registered in the course (including students who did not appear in the final exam) shall be rounded up to two decimals places.
  - The Mean ( $\bar{x}$ ) and Standard Deviation ( $\sigma$ ) of the aggregate marks in the course will be calculated..



# EXAMINATION RULES & REGULATIONS

- c) Highest aggregate marks in a course or  $\bar{X} + 2\sigma$ , whichever is lower will be considered as maximum marks of the course.
- d) 35 aggregate marks in a course or  $\bar{X} - 2\sigma$ , whichever is higher will be considered as minimum marks of the course except the PharmD program.
- e) The range from mean to minimum marks will be divided into five equal intervals to award C+, C, C-, D+ and D grade to students on the basis of their aggregate marks in these intervals respectively. Students having less than the minimum marks will be awarded F grade.
- f) The range from mean to maximum marks will be divided into five equal intervals to award B-, B, B+, A- and A grades to students on the basis of their aggregate marks in these intervals respectively.
- g) Furthermore, for the Pharmacy Program, students securing less than 50% aggregate marks in any course will be awarded F grade, as required by the Pharmacy Council.

13.1.3 Letter grading shall only be used for representing the individual courses and not for the semester GPA or CGPA. The following grade points for each letter grade will be used:

### Relative Grading Table

Grade Point	Letter Grade
4.00	A
3.67	A-
3.33	B+
3.00	B
2.67	B-
2.33	C+
2.00	C
1.67	C- (Below Average)
1.33	D+
1.00	D (minimum Acceptable)
0.00	F (Failure)
	I (Incomplete) For thesis/projects only
	W (Withdrawn)

## 13.2 ABSOLUTE GRADING

13.2.1 Grade Point Average (GPA) system will be adopted for the evaluation of students in all subjects based on the relative grading system. If number of students in a course is less than 20, then Absolute Grading System will be implemented.

13.2.2 The aggregate marks of each student registered in the course (including students who did not appear in the final exam) shall be rounded up to two decimal places and grades will be assigned to students on the basis of aggregate marks of each student as per the grading table given below:

### Absolute Grading Table

Percentage Marks obtained	Grade Point	Letter Grade
85 and above	4.00	A
80 - 84	3.67	A-
75 - 79	3.33	B+

**Absolute Grading Table**

Percentage Marks obtained	Grade Point	Letter Grade
71 - 74	3.00	B
68 - 70	2.67	B-
64 - 67	2.33	C+
61 - 63	2.00	C
58 - 60	1.67	C- (Below Average)
54 - 57	1.33	D+
50 - 53	1.00	D (minimum Acceptable)
Below 50	0.00	F (Failure)
		I (Incomplete) For thesis/projects only
		W (Withdrawn)

- 13.3 There shall be no other grade point values except the above points. The percentage of marks or value of grades other than grade points shall not be reported on the transcripts whether they are relative grades or absolute grades.
- 13.4 Grade point average (GPA) shall be calculated and rounded upto two decimal places. In case of close competition between / amongst students for merit position, the third fraction will be calculated.
- 13.5 Incomplete grade shall only be given in case of Final Year Project where it needs to be completed in two semesters. For the 7th semester, the grade 'I' shall appear in the transcript for FYP and it will be converted after the requirements are met in the final semester.

#### **14 COMPUTATION OF SEMESTER GRADE POINT AVERAGE (GPA) AND CUMULATIVE GRADE POINT AVERAGE (CGPA)**

- 14.1 This is a figure ranging preferably from 0.00 to 4.00 be used to indicate the performance of a student in the semester concerned. A standard scale of 0.00 to 4.00 will be followed.
- 14.2 Semester Grade Point Average (GPA) and Cumulative Grade Point Averages (CGPAs) will be calculated using the following relationships:

$$\text{GPA} = \frac{\text{Sum over all courses in a Semester (Course Credit Hours x Grade Point Earned)}}{\text{Total Semester Credit Hours}}$$

$$\text{CGPA} = \frac{\text{Sum over all taken courses in all Semesters (Course Credit Hours x Grade Point Earned)}}{\text{Total Credit Hours taken in all Semester}}$$

#### **15. CGPA REQUIRED FOR THE COMPLETION OF DEGREE**

- 15.1 For completion of the degree, the minimum qualifying CGPA will be 2.00.
- 15.2 In case a student secures less than 2.00 CGPA (minimum qualifying CGPA) at the end of final Semester, s/he may be

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allowed to get re-admission in one or more courses, in which his/her Grade is below C, along with the forthcoming semester, provided that s/he is not debarred under the CGPA Improvement Regulation and time duration specified for the program.

## 16. STUDENT GRIEVANCES AGAINST COURSE INSTRUCTOR

- 16.1 A 05 members Committee consisted of 02 senior faculty members, relevant head of the department and Dean headed by Controller of Examinations will be constituted to redress the grievances of the students about any course instructor or grades or for any other issue.
- 16.2 In respect of grade, a student must submit the grievance application if any, in writing to the Head of the Department within (07) seven working days of the receipt of the grade. The Head of Department shall forward the grievance application to the Committee. It will be mandatory for the Committee to hear both sides (student and the instructor) and will give its final decision within (05) five working days or before the start of registration for the new semester, whichever comes earlier. The decision of the Committee will be deemed final and will be binding on all parties.
- 16.3 A Departmental Committee headed by the Head of the respective department/ Senior Faculty Members will be constituted to check randomly a few answer papers of the final semester examination for uniformity of scoring & covering of the course content.

## 17. CANCELLATION OF ENROLMENT

If a student fails to attend any lecture during the first four weeks after the commencement of the semester as per announced schedule, his/her admission shall stand cancelled automatically without any notification.

## 18. COURSE FILE

Maintaining the Course File will compulsory for all faculty members. It should have complete record of every activity that happens during the course. The course file should contain:

- a) Course Code and Title
- b) Description of Course/Learning Outcomes
- c) Course syllabus and changes, if any, made over at least 3 semesters
- d) Weekly Teaching Schedule
- e) Dates of Mid-Semester Examination
- f) Grading Policy will identify each activity. such as Homework, Quizzes, Mid Semester Examination, Final Examination and Term Papers etc.
- g) Copy of each Homework Assignment
- h) Copy of each Quiz Assigned
- i) Copy of Question Papers for Mid Semester Examination
- j) Copy of Question Papers for Final/Semester End Examination
- k) Grading Sheets of the Course, Detailing Statistical Data on the Grades obtained by Students
- l) Difficulties/Problems faced by the Teacher and Students during Classroom/ Course Delivery

## 19. FREEZING OF SEMESTER

- 19.1 If a student freezes a semester(s), s/he will resume his/her studies from the same stage where s/he left (froze). No freezing during the semester will be allowed. The maximum duration of the degree program shall remain the same.
- 19.2 If a student is not enrolled in any course in a semester, s/he will not be considered a regular student of university in that period. The student may then enroll in these courses in a subsequent semester; however, s/he will have to meet pre-requisites of any course taken. In addition, it is understood that the university is not required to offer all courses in each semester.
- 19.3 In special hardship cases, a student can be allowed to freeze his/her semester upto 4th week with the prior permission of the Vice Chancellor.



- 19.4 The duration of Freezing is one year; a candidate who gets a semester freeze can get readmission next year with upcoming session but hardship cases can be considered by the competent authority only.
- 19.5 Freezing of first two semesters is not allowed.
- 19.6 Under special hardship circumstances freezing of second semester can be considered by the competent authority on the recommendations of a special committee:
- Iddat
  - Maternity/Delivery
  - Death in the immediate family
  - Any other reason subject to acceptance on justified rationale

Note: Freezing of Semester will only be allowed after successful completion of 1st Semester as prerequisite as the case may be for other semester's predecessor to the freezing Semester.

## 20. MEDICAL CERTIFICATE

Medical certificate from a registered medical practitioner shall be considered on case to case basis through the recommendation of committee.

## 21. INDISCIPLINE IN EXAMINATIONS

- 21.1 Any candidate found guilty of following matters, his/her case will be referred to Unfair Means Committee of the University:
- Removes a leaf from his/her answer book, the answer book shall be cancelled.
  - Submits forged or fake documents in connection with the examination.
  - Commits impersonation in the examination.
  - Copies from any paper, book or notes.
  - Mutilates the Answer Book.
  - Possesses any kind of material, which may be helpful to his/her in the examination.
  - Does anything that is immoral or illegal in connection with the examination and which may be helpful to him/her in the examination.
  - Refuses to obey the invigilation staff or refuses to follow the instructions issued by the University in connection with the examination.
  - misbehaves or creates any kind of disturbance in or around the examination centre
  - Uses abusive or obscene language on the answer script.
  - Possesses any kind of weapon in or around examination centre.
  - Possesses any kind of electronic device which may be helpful in the examination
- 21.2 His/her case shall result in penalties keeping in view the nature and intensity of offence which may include the following:
- Cancellation of paper\*.
  - Suspension from program for one semester.
  - Heavy and light Fine
  - Expulsion forever from the University.
  - Any other.
- \* Unfair Means Committee will decide that the student will have to appear in summer semester/with regular semester for the cancelled paper.
- 21.3 Appeal against the decision of the Unfair Means Committee
- The aggrieved student can file an appeal to the Appellate Committee against the punishment awarded by the unfair means Committee within one week on payment of Rs. 1000/- (rupees one thousand only) as appeal fee. The Appellate Committee can review the decision of the unfair means Committee.
  - The student, if not satisfied with the review decision of the Appellate Committee can submit representation to the President within one week, whose decision shall be final.

## 22. PROBATION/CONDITIONAL PROMOTION / RELEGATION

- 22.1 Probation / conditional promotion is a status granted to the student whose academic performance falls below the following minimum standard:

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- 22.2 Students acquiring less than 2.00/4.00 CGPA in a semester will be put on probation for the next semester. Whereas, a student securing less than 2.00/4.00 SGPA in a semester will be conditionally promoted to the next semester.
- 22.3 Students who remain on probation for a full academic year (Fall semester and Spring semester of the same academic year) and are unable to come out of probation even after the summer semester or 5 "F" grades in theory courses at any particular time during course of studies will be relegated. They will be considered external students till they improve their CGPA and come out of two consecutive probations / relegation.
- 22.4 After improving the GPA and becoming eligible for next semester, s/he will be allowed re-admission as a regular student.
- 22.5 Relegation (two consecutive probations) will be only allowed twice during the 4 / 5 years' degree program.
- 22.6 No consecutive probations will be allowed in the first four semesters.
- 22.7 A student who is on probation 2nd time even after attending summer semester in first four semesters shall be removed from rolls of university / DAI. However, s/he can take re-admission only once during 4 / 5 years BS degree program.
- 22.8 The student(s) will be allowed to complete studies within the stated periods as prescribed by the relevant accreditation body.
- 22.9 However, the programs where the maximum duration is not prescribed by the relevant accreditation body, the student(s) will be allowed to complete his/her studies within 7 years for 4 years' degree programs and within 8 years for 5 years degree programs. The above duration will be inclusive of the period of relegation/freezing.
- 22.10 The student(s) who will not complete studies within stated periods shall be struck off from the rolls of the university.

### 23. PERMISSION OF WRITER FOR SPECIAL STUDENTS

- 23.1 A visually impaired student may be allowed to attempt the Mid/Final Examinations of the University on Braille/ Computer/any other means of facilitation.
- 23.2 In case a student is physically handicapped/visually impaired, s/he may apply to the Head of the respective department (with medical certificate as proof of her/his disability) for permission to engage a writer in Tests/ Examinations of the University two weeks before the start of Tests/ Examinations. S/he will be allowed 45 minutes (maximum) extra time to solve the question paper.
- 23.3 The qualification of the person who acts as writer of a handicapped student must be at least one step lower than that of the student. (e.g. for level 6 student, the writer should be at the most of level 5).

### 24. RECHECKING OF EXAMINATION SCRIPT

The answer book of a candidate shall not be re-assessed under any circumstances:

- a) Whereas the re-checking does not mean re-assessment/re-evaluation/re-marking of the answer book. The Controller of Examination will arrange for re-checking of examination script by any faculty member from the relevant discipline on the complaint/request of students. The Controller of Examination or any officer or rechecking committee appointed shall see that:
- i There is no computational mistake in the grand total on the title page of the answer book.
  - ii The total of various parts of a question has been correctly made at the end of each question.
  - iii All totals have been correctly brought forward on the title page of the answer book.
  - iv No portion of any answer has been left un-marked.
  - v Total marks in the answer book tally with the marks sheet.
  - vi The hand-writing of the candidate tally in the questions/answer book.
- b) The candidate or anybody on his behalf has no right to see or examine the answer books for any purpose.

- c) The marks of a candidate could even decrease in light of (a) (iii) above. In the event of reduction of marks, the record shall be corrected accordingly and revised transcript will be issued.

## 25. DAMAGED/LOST ANSWER SCRIPT

In an exceptional case where an answering script is damaged, lost, or destroyed due to unavoidable circumstances, then the student may be given the following options:

- a) Average marks shall be awarded to the student in that subject/course.  
 b) If the candidate so desires, s/he shall be given another chance as a special case to take the make-up assessment in that subject/course soon after the termination of the relevant exam wherein the answer script is damaged/lost.

## 26. ELIGIBILITY OF CANDIDATES FOR AWARD OF DISTINCTION

Candidates securing CGPA  $\geq 3.67$  shall be declared to have passed the Degree Course with Distinction; provided that Distinction shall be awarded to such candidates only who have passed all the Examinations in first attempt, within four Academic years from the date of joining the First year class.

## 27. ELIGIBILITY OF CANDIDATES FOR AWARD OF DISTINCTION IN CASE OF MIGRATION FROM OTHER UNIVERSITIES:

- a) Students having been admitted on migration basis from other universities shall be required to pass the deficient subjects, if any, due to difference in the course of studies of the universities, in first attempt within the immediately following two examinations.  
 b) Students otherwise eligible for the award of Distinction shall not be deprived of the same on account of Regulation 28.1(a); provided the candidates have passed the previous examination(s) in first attempt and also passed the remaining examination(s) in first attempt, and have passed the deficient subjects in one attempt as a whole.

## 28. ELIGIBILITY OF CANDIDATES FOR GOLD MEDAL

The gold medal shall be awarded to a graduate in each batch of all the disciplines who fulfills the following conditions:

- 28.1 Passed all the University Examinations in first attempt and completed all the requirements for award of degree within consecutive semesters after joining the first semester and within the minimum duration of the program.  
 28.2 Obtained first position amongst all the passed students.  
 28.3 Secured CGPA  $> 3.67$ .  
 28.4 For determination of positions, CGPA shall be calculated and rounded up to two decimal places. In case of tie between/amongst students, the third fraction will be calculated.  
 28.5 Completed Research Project/Internship within minimum duration of the program.  
 28.6 Any graduate who has been penalized by the University Discipline Committee/UFM Committee/Appellate Committee shall not be eligible for the award of Gold Medal.  
 28.7 One Gold Medal will be awarded to all the batches of the same course commenced within six months' duration.  
 28.8 There should be minimum five regular/active students in the last/final semester examination of the class for the award of gold medal to a student, if otherwise eligible.  
 28.9 Gold Medal will be awarded on the occasion of convocation only.

## 29. CHANGE/CORRECTION/ADDITION/DELETION OF STUDENT NAME/ FATHER'S NAME

- 29.1 When a student wishes to change his/her name as originally entered in the University record, he/she shall proceed as under:



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- a) He/she shall apply to the Registrar Office through the Head of the Department concerned.
  - b) He/she shall submit the revised SSC & HSSC documents.
  - c) He/she shall submit the cutting of the newspaper containing the published notice of change of name in at least one Daily Newspaper.
  - d) He/she shall support his/her application with an affidavit on a non-judicial stamp paper (not less than Rs. 50/-) duly sworn before Notary Public/Oath Commissioner by the Students himself/herself with signatures of the respectable witnesses thereon.
- 29.2 When a student wants to get his/her name corrected on his/her SSC documents, he/she shall be required to comply with para 30.1 above.
- 29.3 The procedure for change/correction of student's father name or other factual entries shall be same as provided in paragraph 30.1 and 30.2 supra.
- 29.4 For change/correction of entries, the student may be required to furnish good cause together with necessary proofs, if any.

## 30. FINAL YEAR PROJECT ASSESSMENT (FOR B.SC ENGINEERING AND TECHNOLOGY STUDENTS' ONLY)

The procedure for the evaluation of Final Year Projects of the B.Sc Engineering and Technology students shall be as under:

### a) Project Evaluation in 7th Semester

A panel of Examiners consisting of the following members will constituted by the Chairperson Head of Department in 7th semester for project(s) evaluation.

- i) Chairperson (Head of the Department) or his nominee
- ii) Project Supervisor
- iii) FYP Coordinator of the Department
- iv) Two Faculty Members nominated by Chairperson Head of the Department

The quorum of the members of the Evaluation Committee shall not be less than 3 members for project assessment and the average of marks given by the Committee members shall be awarded to the student for activities as mentioned in the Distribution Criteria.

### Marks distribution Criteria

100 marks may be awarded to the student(s) for the first part of FYP in 7th semester (3 Credit Hours), as per the following criteria:

- 10% marks — Initial Project Proposal (1st presentation) — 4th week
- 25% marks — Project Proposal Details & Defense (2nd presentation) — 8th week
- 45% marks — Progress of the project (3rd presentation) — 16th week
- 20% marks shall be awarded by the project supervisor based on work done between 6th and 16th week of the 7th semester

### 30.2 Project Evaluation in 8th Semester

A panel of Examiners consisting of the following members will constituted by the Chairperson Head of Department in 8th semester for project(s) evaluation.

- i) Chairperson (Head of the Department) or his nominee
- ii) Project Supervisor
- iii) FYP Coordinator of the Department
- iv) Two Faculty Members nominated by Chairperson Head of the Department

The quorum of the members of the Evaluation Committee shall not be less than 3 members for project assessment

and the average of marks given by the Committee members shall be awarded to the student for activities as mentioned in the Distribution Criteria.

#### **Marks distribution Criteria**

100 marks may be awarded to the student(s) for the first part of FYP in 7th semester (3 Credit Hours), as per the following criteria:

- 20% marks — for (1st presentation) — 8th week.
- 40% marks — for (2nd presentation) — 16th week.
- 20% marks shall be awarded by the project supervisor for the work done on the project between 8th and 16th week of the semester.
- 20% marks — for the open house presentation — after Theory Examination.

30.3 The Student will submit thesis after the approval of the Supervisor.

### **31. SPECIAL PROVISION**

31.1 In all cases where these regulations are silent, the decision of the President shall be final.

31.2 The University authorities reserve the right to make any change in the rules, regulations, fee structure and courses of study that may be considered necessary at any time without prior notice.

## **PART-II APPLICABLE TO BACHELOR OF ARCHITECTURE PROGRAM ONLY**

### **32. SCHEME OF STUDIES**

32.1 Course work for earning the degree in Architecture comprises of theory courses, studio courses and thesis design.

32.2 Each course offered at the University is allocated certain credit hours, describing the weekly amount of work required for that course. For theory courses, each credit hour means one hour of lecture per week, and for studio\* courses, each credit hour means two hours of practical studio work.

32.3 As a pre-requisite of the B. Architecture degree, each student shall carry out a thesis design in the final year of their studies, comprising of a written report and a complete Design project of appropriate level. Thesis Design is comprised of 10 credit hours (20 contact hours per week) in each semester of the final year and is evaluated separately in each semester by the panel of jurors approved by the University authority assigned such responsibilities/ powers.

### **33. DEGREE REQUIREMENTS**

To earn a B. Architecture degree, a student must:

- a) Pass all the courses of study prescribed in the relevant Scheme of Studies.
- b) Obtain a minimum of 2.00 CGPA.
- c) Students must complete six weeks of internship during 3rd and 4th years with reputable architectural firms. The internship must be monitored and verified by the Department of Architecture and students shall submit the internship certificates as issued by the relevant architectural firm to the Department.

### **34. EXAMINATION**

34.1 Each subject in the B. Architecture course has an overall weightage of 100% marks. A student shall be evaluated in each course on the basis of assignments, presentations, mid semester and final examination. 25% marks will be allocated for sessional work (including tests, assignments, presentation and class participation), 25% marks will be specified for the mid-semester examination (to be conducted at the culmination of eighth week of each semester) and 50% marks for the final examination of the semester.

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- 34.2 The subjects of Basic Design, Architectural Design and Thesis Design are considered to be the Core Subjects of the relevant semesters and shall form a stream and each preceding course shall be a pre-requisite for next course in line.
- 34.3 Marks distribution in Core subjects will be 40:60 for Sessional and Final examination. Further break up of sessional marks will, however, be on the approval of the Head of Department.
- 34.4 60: 40 for external and internal examiner for Exam Project of core subjects i.e. Architecture Design.
- 34.5 Thesis Projects shall be evaluated by a panel of external examiners for 60% marks whereas, 40% marks shall be awarded to the student by his/her internal supervisor during the course of his/her semester in the form of sessional assessment and keeping track of progress made on the thesis project. Those students who acquire minimum aggregate of 50% marks with minimum 50% marks from the external examiners in the final thesis juries shall be declared successful, whereas unsuccessful students shall be given a second chance to reappear in the next semester to present their thesis.



# STUDENTS' CONDUCT AND DISCIPLINE REGULATIONS

## 1. OBJECTIVES:

The objectives of these regulations is to promote and propagate respect for rules / regulations / law of the land and to foster a sense of decency, good conduct and responsibility in the minds of students. This code will focus to ensure high moral standards and a peaceful and pleasant academic atmosphere in the university and its campuses/constituent institutions.

## 2. REGULATIONS FOR CONDUCT AND DISCIPLINE:

These regulations are applicable to any student who engages in conduct that violates the rules and regulations of the university, specific instructions issued by a university official or any other person authorized to ensure the implementation of these regulations. A student is subject to discipline for prohibited conduct that occurs on or off campus including field trips, survey camps, internships etc.

### 2.1. Students General Discipline

The students are expected to conduct themselves in a disciplined manner, and to acquire that nature and responsible outlook about life, which is expected of them when they enter their professional careers. Any violation of the rules of discipline can render a student liable to disciplinary action. In this regard they are required to abide by rules of discipline as well as codes of discipline, excerpts from which are reproduced below:

Every student must observe the following code of honor:

- a) he / she must be loyal, faithful in his / her religious duties and respect the convictions of others in matters of religion and custom.
- b) he / she must be loyal to his / her country and refrain from doing anything, which might lower its honor and prestige.
- c) he / she must be truthful and honest in dealings with all people.
- d) he / she must respect the elders and be polite to everyone.
- e) he / she must respect his / her teachers and others in authority of the university.
- f) he / she must keep himself / herself neat and clean.
- g) he / she must help his / her fellow-beings, especially those in distress.
- h) he / she must devote himself / herself faithfully to his / her studies.
- j) he / she must observe thrift and protect public and private property.
- k) he / she must obey and respect all the laws of the country.

### 2.2. Code of conduct

The following acts are prohibited for the students:

- a) possession, use or inducement of any kind of drugs, liquor or any other kind of contrabands or intoxicants.
- b) carrying any kind of weapons within or near the university premises.
- c) possession or use of any type of explosive, firearm, ammunition or hazardous chemicals.
- d) smoking inside the premises of campus.
- e) using indecent/ immoral/filthy language, passing undesirable remarks and disorderly behavior.
- f) inciting violence, use of force or destruction/damage to university property.
- g) misbehavior with management, teaching faculty, office and support staff.
- h) indulging in any political, ethnic, sectarian or immoral activity (including strikes, protests, demonstrations, speeches, slogans and distribution of printed material) in or around the campus.
- i) harassment of any student or staff member, including sexual harassment.
- j) any activity within or outside the premises, which may bring bad repute to the institution or its management / faculty.
- k) impersonation / suppression of information, cheating and use of any kind of unfair means in the examinations.
- l) bringing mobile phone inside the examination hall
- m) bringing any food items and eatables inside the classroom, library or laboratory.
- n) entertaining outsiders, friends and relatives during study hours without prior permission of the competent authority.
- o) breaching any of the rules / regulations ordained by the university.
- p) breaching secrecy and sanctity of the examination process.

# STUDENTS' CONDUCT AND DISCIPLINE REGULATIONS

- q) rendering or causing loss to any property or assets of the university.
- r) conduct that endangers the health or safety of any person.
- s) unauthorized use of property, equipment, supplies, buildings, or facilities of the university.
- t) altering or assisting in the altering or forging of any official record of the university.

## Apart from the above, students are required to:

- a) display university identity cards prominently on their chests while entering the premises, attending the classes, library or laboratories. They should keep their ID cards neat, clean and in proper order.
- b) come to the university / institute in a properly presentable, neat and clean dress.
- c) behave in a decent and disciplined manner on all social, academic and sports events in or outside the campus.
- d) avoid any act of omission or commission bringing disrepute to the university directly or indirectly.
- e) Use of any type of cameras (still or video), audio / video gadgets in the university premises (unless & until authorized).

## 3. ACTS OF INDISCIPLINE

A student will be liable to disciplinary action who:

- a) commits a breach of any of the rules / regulations of conduct specified in paras above or disobeys the lawful order of a teacher or other person in authority in the college / institute.
- b) habitually neglects his / her work or habitually absents himself / herself from classes without reasonable cause.
- c) willfully damages college / institute property or the property of a fellow student or any teacher or employee of the university.
- d) does not pay the required fees, fines or other dues by the specified date(s).
- e) does not comply with the regulations relating to residence in the hostels or halls of residence or the rules relating wearing of uniform or academic dress.
- f) uses indecent language, wears immodest dress, makes indecent remarks or gestures.
- g) interacts with opposite / similar sex openly or separately in indecent or objectionable manner or behaves in a disorderly manner
- h) does not comply with the standing / current orders, notifications or instructions of the proctors / director / head of department / vice chancellor / president / management.
- i) commits any criminal, immoral, or dishonorable act whether within the university campus or outside which is prejudicial to the interest of the college / institute.

## 4. Proctorial board

### 4.1 Constitution of proctorial board

There shall be a proctorial board in the university which shall comprise of:

- a) Chief Proctor from faculty of university or otherwise so nominated by the president / vice chancellor.
- b) One male staff proctor from each department.
- c) Female staff proctor as per need of the board.
- d) Two senior proctors (senior students from each department).
- e) Student proctors from different classes as per need of the board.

The nomination of a proctor shall always vest in management of the university.

### 4.2 Character of the proctors:

A student proctor shall be:

- a) a person of good reputation, shall be unbiased, courageous and helpful.
- b) he/she was never found indulge in politics or anti-state activities.

### 4.3 Duties and responsibilities of proctorial board

The proctorial board so constituted will carry out such duties to derive the objectives set in the code of conduct as stated above, enabling to reform a student for shouldering responsibility towards the society as well as to the country with noble objectives in a befitting manner. The duties and responsibilities of proctorial board will be as under:

- a) ensuring strict implementation of conduct and disciplines regulations.
- b) support the management of the university in implementing law & order in the university premises.
- c) resolving minor issues, disputes and indiscipline cases at their own, wherever possible.
- d) processing the cases of serious violation of the rules and report the same to the management of the university.
- e) visiting campuses, periodically, to assess the compliance of discipline.
- f) ensuring and maintaining discipline during curricular and co-curricular activities; i.e. orientation sessions, functions, seminars and conferences, sports competitions, convocation etc.
- g) to remain on duty in all functions and sports events.
- h) conducting awareness sessions with the student proctors regarding the conduct and discipline regulations.
- i) keep the management updated on all the important matters related to the conduct and discipline and other related activities
- j) Any other task assigned by management.

#### 4.4 Removal of Proctor

The president / vice chancellor or any other authorized officer shall have the right to change or remove any member of the proctorial board at any time without assigning any reason. The President / Vice Chancellor will also have the right to dissolve the proctorial board at any time.

### 5. Dress Code

- 5.1 Students are required to come to university in proper, presentable, neat and clean dress.
- 5.2 Male students are required to wear shalwar and kameez with waist coat (optional) or Trouser and Shirt with jacket or coat & tie (optional).
- 5.3 Wearing T-shirts or any clothes carrying emblems, letters, art, or slogans and pictures printed on them are not allowed.
- 5.4 Sleeveless shirts and shorts are not allowed.
- 5.5 Male students are not allowed to wear any type of shawl.
- 5.6 Female students must wear shalwar and kameez with proper chaddar.
- 5.7 No makeup and Jewelry is allowed.
- 5.8 No skin tight, flashy or see through dress is allowed.

### 6. Disciplinary action

#### 6.1 Penalties

- a) The university reserves the right to suspend, dismiss or impose any other pecuniary or physical penalties on students for any violation of its rules and regulations, any type of misconduct or any undesirable activity mentioned above.
- b) Punishment or penalty for act(s) or omission(s) to the above disciplinary regulations shall be according to the gravity and consequences of the case and will include any one or more of the following:
  - i) a written warning, maximum two, after which he/she will render himself/herself liable for dismissal / rustication / expulsion from university / class.
  - ii) imposition of fine.
  - iii) expulsion from the classes for a specified period by the head of department on recommendations of the chief proctor.
  - iv) expulsion from a specific course or rustication from the university for an indefinite period by the vice chancellor on the recommendation of discipline committee, without any warning.
  - v) permanent expulsion from the university when no sign of recovery appears after a reasonable chance was given to improve. The student(s) will have the right of appeal to the president.
  - vi) When a case against a student is referred to the discipline committee, the committee may, if it deems fit, suspend the student from the university rolls and if boarder, direct him to vacate the hostel till it has taken a decision in the case.
  - vii) Any other penalty as recommended by discipline committee.



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## 6.2 Authorities competent for imposition of penalties

The authorities competent to impose each kind of penalty, are specified below:

S.No	Penalty	Authority competent to impose Penalty
6.2.1	Removal from classroom laboratory, workshop or fieldwork for not more than two such consecutive periods/events.	Concerned faculty member
6.2.2	Withdrawal from games or field for not more than one week.	Sports incharge
6.2.3	Withdrawal from educational or sports tour or survey camp.	Head of the department
6.2.4	Suspension from the department / classes for a period not exceeding two weeks.	Head of the department
6.2.5	Withdrawal from library for not more than two weeks.	Librarian
6.2.6	Removal from hostel for a period not exceeding four weeks.	Hostel warden
6.2.7	Removal from hostel for a period not exceeding four months.	Manager Admin & Works
6.2.8	Fine not exceeding Rs: 500/-	Concerned faculty member, warden, supervisor workshop / lab, sports incharge or librarian
6.2.9	Fine not exceeding Rs: 1000/-	Chief proctor, staff Proctor
6.2.10	Fine not exceeding Rs: 2000/-	Head of the department or director of the institute
6.2.11	Fine amounting to Rs. 10000/- for bringing mobile phone in examination hall	Controller of Examinations
6.2.12	Cancellation of remission of fees or University Scholarships.	Director Welfare
6.2.13	Removal from a position of authority in Students' Society.	Vice chancellor/ Registrar
6.2.14	Suspension / Rustication	Head of concerned department / director of the institute / discipline committee with the approval of the Vice Chancellor
6.2.15	Expulsion	Discipline committee with the approval of the Vice Chancellor and President

## 6.3 Suspension / Rustication:

- The vice chancellor on the recommendations of concerned head of department / director of the institute or university discipline committee can suspend or rusticate a student. Suspension would mean suspension of student till completion of the inquiry on the risk and cost of the student concerned. During the suspension the student accused of misconduct shall be deprived of all his rights and entitlements / benefits as the student of the university and shall not be allowed to attend classes or take examination.
- Rustication whenever imposed on a student shall always mean the loss of at least one academic year. The period of absence from the university will, however, depend upon the time of the year when the penalty is imposed.
- During rustication the name of the student shall not be mentioned on the rolls of the university.
- No fee will be charged from a rusticated student for the period of rustications, however, he / she shall pay all his/her dues normally during suspension. The period of suspension shall not exceed four weeks.
- A rusticated student shall not claim a refund / reimbursement of fees for remaining period of his course / semester, wherefrom he/she is rusticated. He / She shall be required to pay fee afresh for the semester, when he/she is re-admitted.
- No relaxation will be given in attendance to the student in case of suspension and he/she will be responsible for shortage of attendance.

## 6.4 Expulsion

- If a student commits such an offence which in the opinion of the authority concerned demands his / her expulsion from the university his / her name will be reported to the president through vice chancellor. The president will have powers to sanction expulsion.
- The vice chancellor may expel a student for misconduct or gross breach of discipline either himself or on the report and recommendations of the discipline committee or any officer of the university for a period not exceeding six months duly informing the committee and the President thereabout.
- The period of expulsion will be counted from the date of issue of such a notice by the authority who shall have powers to enforce its orders subject to informing all concerned as the case may be.
- Name of the expelled student will immediately be removed from the rolls of the university and no fee refund shall be permissible in that case.

- e) A student expelled from university may be readmitted after the expiry of the period of expulsion.
- f) Cases of expulsion will be registered in registrar office of the university and notified to all departments/ authorities concerned.

### 6.5 Examination Offences

Cases of indiscipline in examination halls or around, or use of unfair means, shall be dealt with by the unfair means committee constituted for the purpose. However, the committee concerned may send the case to the university discipline committee for appropriate action if deemed necessary along with its recommendations through registrar. The university discipline committee shall give due weightage to the recommendation/report of the unfair means committee and forward its recommendations to the registrar.

- 6.6 Every member of the teaching staff and / or managerial staff has the powers as well as his/her duty to check disorderly or improper conduct or any breach of the rules / regulations by student(s) occurring in any precincts of rules/regulation of university or its constituent institutions. Should such misconduct occur the matter should be reported to the concerned head of the department.
- 6.7 The librarian shall be responsible for maintenance of order in the library. In case of disorderly conduct of student(s) or any breach of rules, he/she may require the student(s) so offending to withdraw from the library for the remainder of the day and shall immediately report the offence to the concerned head of department.
- 6.8 The warden shall be responsible for maintenance of order among the students in hostels.
- 6.9 The sports incharges or his/her officiate shall be responsible for the maintenance of order among the students on or near the playgrounds or while otherwise under his/her charge.

## 7. Procedure in case of breach of discipline

- 7.1 A teacher or officer in whose presence or in relation to whom an act of indiscipline has been committed or who obtains knowledge of such act, on report, written or otherwise, may report the case to the chief proctor, who will forward the same to concerned head of department for further necessary action.
- 7.2 The head of department will take necessary discipline action as per his authority. In other case, he /she can refer the case of departmental discipline committee. In case of serious indiscipline, he/she can refer the case to university discipline committee through registrar office.
- 7.3 The departmental discipline committee/university discipline committee will submit its recommendations to the registrar office for seeking approval of competent authority.
- 7.4 In cases of serious indiscipline, if deemed necessary, the opportunity of personal hearing can be provided to the concerned students and other witnesses.
- 7.5 In all cases, the evidence or report of the initiating authority shall provide the substantive basis for all appropriate actions unless it is otherwise not implicitly and forcefully rebutted by the accused.

## 8. Discipline / Unfair means Committees

The constitution of departmental discipline committee, university discipline committee and unfair means committee will be as under:

### 8.1 Departmental discipline committee

- |      |  |                    |
|------|--|--------------------|
| i)   | Director / HoD of Concerned Department       | Convener           |
| ii)  | Chief Proctor                                | Member             |
| iii) | Departmental Proctor(s)                      | Member(s)          |
| iv)  | Academic Coordinator of Concerned Department | Member / Secretary |

### 8.2 University discipline committee

The University discipline committee will be constituted by the Vice Chancellor with the approval of President.

# STUDENTS' CONDUCT AND DISCIPLINE REGULATIONS

## 8.3 Unfair means committee

i)	Dean Faculty of Engineering	Convene
ii)	Dean of concerned faculty	Member
iii)	HoD of Concerned Department	Member
iv)	Controller of Examinations	Member / Secretary

## 9. Pecuniary penalty / Compensation for loss

The Discipline Committee or any teacher, member of proctorial board or a university officer to whom the competent authority may delegate the powers, may direct the accused to pay compensation for any loss or damage to property belonging to the university, public / private authority or to a fellow student, caused by willful act or gross negligence of the student. In case the student does not pay such compensation within a definite period, the Vice Chancellor may expel him/her from the University and may also sanction recovery of such compensation so adjudged by other lawful means.

## 10. Appeals

- 10.1 An appeal against the punishment of rustication, expulsion or pecuniary penalty shall lie to the appellate committee comprising of the vice chancellor, registrar and one member nominated by the president.
- 10.2 No appeal shall lie against the decision of an authority imposing a penalty other than rustication, expulsion or pecuniary penalty except on the ground that such authority has imposed a penalty, which it was not competent to impose.
- 10.3 An appeal on the ground that an authority has imposed a penalty, which it was not competent to impose, shall lie to the appellate committee.
- 10.4 A student, if not satisfied with the review decision of the appellate committee can submit representation / review appeal to the president, whose decision shall be final.
- 10.5 No appeal by a student against rustication, expulsion or pecuniary penalty shall be entertained unless it is presented within one week from the date on which the decision is communicated to him/her; however, the Vice Chancellor may for valid reasons extend this period for further one week.

## 11. EMERGENCY POWERS

The Vice Chancellor, in case of an emergency to be recorded in writing, may take an emergency action against a student or students pending reference to the discipline committee in form of rustication or expulsion and order the removal of a student from the University or ban his / her entry in whole or any part of the campus or other facilities offered by the University.

## 12. GENERAL

- 12.1 The president may revise the notification of penalty on the recommendations or concurrence of the case- initiating authority as the case may be.
- 12.2 No student shall be rusticated, expelled from university or made liable to pay damages unless he/she has been allowed reasonable chance of personal hearing against the accusations leveled against him/her.
- 12.3 Such orders made and announced by the appropriate authority in case of suspension shall be effective immediately without any hindrance. However, in the case of rustication or expulsion when in the opinion of the discipline committee, the penalty of rustication, expulsion or pecuniary penalty is not called for in a case referred, it may impose any other penalty or penalties mentioned above.
- 12.4 The president may, at his discretion, revise / amend these rules or relax the same in any special case.
- 12.5 The president, on the recommendations of the discipline committee or suo moto may impose or waive any of the penalties listed above or refer any case to the special committee constituted for the purpose to review the decision.



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