

UNIVERSITY  
OF GWADAR



2023

# PROSPECTUS

Bachelore's Degree  
Programs

# Gwadar: A Picturesque City

Gwadar is a breathtakingly beautiful port city on the southwestern coast of Balochistan, with its astonishing location and significant strategic value. The city is located on the shores of the Arabian Sea opposite Oman. Gwadar was an overseas possession of Oman from 1783 to 1958. The sister port city of Chabahar in Iran's Sistan and Balochistan Province is about 170 km (110 mi) to the west of Gwadar. The word "Gwadar" is a combination of two Balochi words gwad meaning wind and dar meaning gateway or door, thus Gwadar means "the gate of wind". The population of the city has risen to approximately 85,000 as of 2014. Currently in 2020 and it is estimated to be 138,000. The population of Gwadar is predominantly Baloch. In Gwadar city the main spoken language is Balochi since it is the language of majority of population and true inhabitants of this land. However, there is a fair number of Urdu, Bengali, Brahvi, Sindhi, as well as Pashto, etc. language speaking people residing in this region.

Gwadar with its own Baloch population, own culture and tradition has unique diversity and beauty at its core. The Arabic influence upon Gwadar is strong as a consequence of the Omani era and its close proximity to the Arabian Peninsula. Remnants of Oman era buildings can also be found in the city. Gwadar became part of the sultanate of Muscat and Oman in 1797, and it was not until 1958 that the town and adjoining hinterland were exchanged from Oman to Pakistan.

The main source of bread and butter of this region's people is fishing and most of the people are fishermen thus there are certain numbers of fish-processing factories. Apart from this, there are shops, private and government offices, markets and different small and mid-level firms and companies are being run in the city. The area's potential to be a major deep-water port remained untapped under successive Pakistani governments until 2001, when construction on the first phase of Gwadar Port was initiated.

In April 2015, Pakistan and China announced their desire to build the \$46 billion China-Pakistan Economic Corridor (CPEC), which is part of China's ambitious One Belt, One Road initiative. Gwadar plays an important role in the China-Pakistan Economic Corridor (CPEC), and it is also envisioned as the connection between the One Belt, One Road and Maritime Silk Road projects. As part of the China-Pakistan Economic Corridor (CPEC), \$1.153 billion in infrastructure projects would be invested in the city, with the goal of connecting northern Pakistan and western China via the deep-water seaport.



\*Omani Fort Gwadar (19<sup>th</sup> Century)



# Student Portfolio

## Welcome to University of Gwadar

04	Slogan, Vision and Mission
05	Chancellor Message
06	Chief Minister Message
07	Vice Chancellor Message
08	Pro-Vice Chancellor Message
09-12	University Statutory Bodies

## Campus Life

14	Genesis
15-16	Administration
17	Academic Calender
18-19	Examinations
20	IT Directorate
21-23	Facilities

## Faculty of Management Sciences, Commerce And Social Sciences

26	Dean Message
27-41	Department of Commerce
42-47	Department of Economics
48-61	Department of Education
62-68	Department of English
69-83	Department of Managment Sciences

## Faculty of Sciences, Engineering and Technology

85	Dean Message
91-120	Department of Chemistry
80-107	Department of Computer Science

## General Information

121	Student Affairs
122	Fiancial Aid
123	Accommodation
124-125	Quality Enhancement Cell
126	ORIC
127	Location



# UNIVERSITY OF GWADAR

## SLOGAN

**KNOWLEDG • WISDOM • SERVICE**

## VISION

Ensure the access of education to the farthest reaches of country with a state of the art education system and be the institute of choice for higher learning.

## MISSION

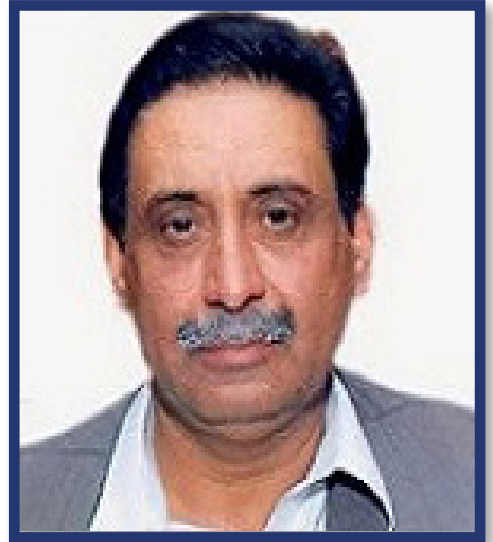
The mission of the University of Gwadar (UG) is to carve out an educational niche for itself through innovation in modern pedagogy. To be the first university in balochistan that reflects an international range in its courses and program design.





## From the Chancellor

I am delighted to observe that the recently established University of Gwadar has been turning into a change agent in the field of higher education in the Mekran region in general and in the port city of Gwadar in particular. I would like to avail myself of the opportunity to extend my heartiest greetings to the management, faculty, and students of the sub campus of University of Turbat at Gwadar on the transformation of the erstwhile campus into a full-fledged University of Gwadar. I am positive this young university will open new educational vistas for the youth in Mekran region, as well as equip students from across the province and country at large with equal opportunities for higher studies. My sincere support will always remain with the Vice Chancellor and his team for leaving no stone unturned in spreading the cause of higher education in the region to produce a vibrant human resource that is committed to meeting the challenges of a modern world. The graduates from the university can effectively contribute towards the ongoing leading projects of China Pakistan Economic Corridor (CPEC) at Gwadar and rest of the province and the country.



The establishment of the university owes much to consolidated efforts of the people in the region who saw their dream mature into reality. This also speaks volumes of their commitment to the cause of education and their immense confidence in the potential of institutes of higher learning as catalysts for lasting growth in the key indicators of development. If this passion for knowledge continues unabated, this university will soon chart a sustained course of progress in the annals of history. Furthermore, the strategic location of the university makes it an ideal hub of socio-economical uplift of Gwadar, the province of Balochistan and the entire country.

I am confident that University of Gwadar, under the leadership of its experienced Vice Chancellor, can easily achieve all its targets before long. Given the strategic location of the University at heart of CPEC and its viability as a key driver of socio-economic development, I am filled with great optimism that the university will make concerted efforts to excel in the field of higher education and inculcate our commonly cherished moral values in its students. It is heartening to note that the University is well poised to achieving its set milestones along with the establishment of more market-oriented teaching departments related to Gwadar port keeping abreast with the state-of-the-art innovations in the fields of science, technology, engineering and social sciences.

It is a proven fact that higher education is not only about the sharing of knowledge anymore; it is also about the creation of knowledge and its application for the socio-economic progress of the community in general, and areas adjacent to the university in particular. A major aim of the application of knowledge should be the creation of job opportunities for people of the region and we must realign our focus towards gradually shifting from being a consumer society towards a society that is more vested in production. We have to reach out to the community around us and think of newer ways to interact with them professionally. We also need to be cognizant of the changing dynamics of intracommunal relationships and must devise means to cultivate a productive liaison with the international community. We cannot accomplish our set goals without a close partnership with our professional and academic counterparts within the country and abroad.

As the chancellor of the public sector universities in the province, I proffer utmost support and patronage for the further growth of the University of Gwadar. Government of Balochistan is also committed to steering available resources towards the uplift of Universities in the province, including University of Gwadar and seeing them transform into modern institutions of international repute that are equipped with latest teaching techniques, training facilities and technology. I hope that the management and faculty of UG will continue their mission of educating minds and stirring individual creativity and will bring the university at par with the top institutions of

**Mir Jan Muhammad Khan Jamali**

Acting Governor Balochistan & Chancellor University of Gwadar



It gives me pleasure to say that University of Gwadar, a long-standing desire of the people of Gwadar has formally been established. Emerging of newly established University of Gwadar is a new and great opportunity with potential for the socio-economic growth in the region. God has bestowed Balochistan a very important geographical and geostrategic location. This peculiarity has increased its importance at national and international level for many purposes.

It is the priority of my government to facilitate the onset of an educational revolution in the province that will bring a meaningful change in the lives of people of the area. My government is always committed to extend

full cooperation in promotion and improvement of higher education in the province. The provincial government is positively admitted to enhancing more and more facilities in higher education institution. We are trying our level best to facilitate utmost universities of the province enabling them to bring at par with universities of the world.

I hope, the graduated students from this newly established university, will be well-equipped with their distinctive field of expertise to face every difficult and challenging situation of the beloved country by responding them with full of patriotic and national emotions and sacrifice. They will be enlightened and responsible to face challenging situations not only in Mekran but also throughout the country at large. Being one of the General Universities in the province of Balochistan, University of Gwadar will have to move ahead steadfastly to introduce a wide array of academic disciplines that cater to the unique talents of rapidly growing human resource in the country.

I am confident that the dedication of experienced Vice Chancellor University of Gwadar Prof. Dr. Abdul Razzaq Sabir (TI) has solid commitment with his dedicated team will explore uncharted ground for the development of the university and making a point of adhering to the highest standards of academic success. I also would like to wish best of luck to the students of University of Gwadar for their future endeavors and would like to see them at the forefronts of making significant contribution for the province and country.

**Mir Abdul Qaddus Bezanjo**  
Chief Minister Balochistan



## From the Vice Chancellor

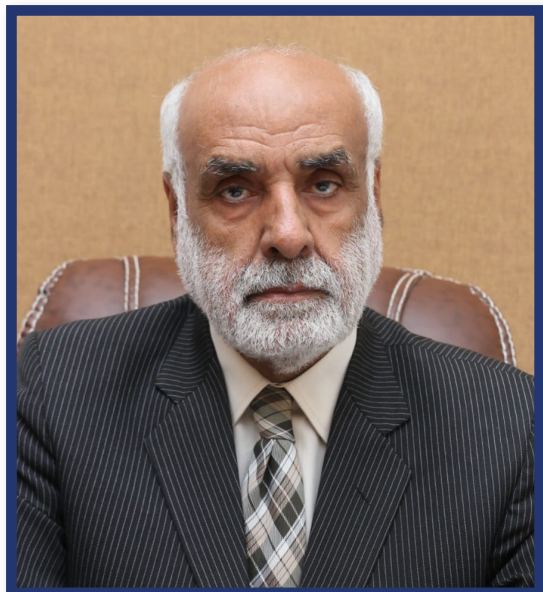
Thank you for choosing the University of Gwadar for your higher studies. In fact, in the modern era advanced knowledge is the most important contributor to professional and economic development. The University of Turbat was established through a charter issued by the Governor Balochistan on May 28th, 2012. UoT is the second general highest seat of learning in the public sector in Balochistan having noble task to provide higher education to the people of Mekran Division which is one-fifth of the entire area of the province.

The people of Gwadar are keen to achieve higher education; in the past, to seek higher education at their doorsteps has remained a dream of the people of Gwadar. The dream by the people of Gwadar to acquire higher education at their doorsteps was converted into veracity when University of Gwadar established. The University of Gwadar at Gwadar is in its preliminary phase of establishment

Being the first and founder Vice Chancellor of University of Gwadar I welcome the students from Gwadar and neighboring districts with the expectations that their stay would be worthwhile for the region and their own future career.

Education of the modern times hinges around creativity, skill-development and innovation. It is need of the hour that the academic degrees should be supplemented with the value addition of innovative approach, creative mindset and practical knowledge. This purpose can only be achieved when a university applies unconventional grounds and its students also accept them with desire. I desire to focus to initiate and flourish such academic atmosphere and culture at newly established University of Gwadar at Gwadar to make this University a center of excellence in teaching, research and innovation, and its services at local, national and international levels.

It is pertinent to mention here that University of Gwadar is among the newly established universities in the country establishing trends in online instructions. The efforts of all administrative staff, Heads of Departments, faculty members and students are hereby acknowledged for taking keen interest to bring University of Gwadar in the leading universities of the Country very soon Insha'Allah.



**Prof. Dr. Abdul Razaq Sabir (TI)**

Vice Chancellor

## From the Pro Vice Chancellor



Welcome to the prestigious University of Gwadar which is characterized by its excellent teaching-learning environment and diversity in its programs to prepare the students in response to recent technological advancements and global challenges. Our major objective is to create a platform for free and open exchange of a wide range of ideas in a culture of mutual respect, where our shining students can meaningfully contribute to provide innovative solutions to the public and private organizations within the country and abroad. Our competent faculty strives to impart the most advanced analytical and specialized skills in our students to contribute for the betterment of our nation. We believe that innovation requires an optimized blend

of engineering, technology, social sciences and business applications to be compiled together in an interdisciplinary fashion.

Advanced labs, innovative & interactive teaching methodologies, qualified & experienced faculty, conducive research opportunities, and academia-industry linkages have all been merged to place University of Gwadar among top emerging universities of Pakistan. University of Gwadar is distinguished for its progressive curriculum design that mainly focusses on problem-solving capabilities, industrial-specific objectives, creative design abilities, and interdisciplinary research methodologies. Our students really enjoy an interactive learning experience that goes beyond merely learning tools or knowledge, but development of critical thinking and provision of solutions to complex problems. University of Gwadar's academic prospects are balanced with campus lifestyle which provides numerous extracurricular activities such as sports, literary, debating, cultural adventurous and social events.

The University believes in constant improvement; therefore in this connection, each degree program is assessed periodically against its pre-defined outcomes. This gives the University a chance to know the quality of its graduates apropos the requirements of the industry or employers. Based on stake holder's feedback, appropriate remedial actions are taken, where necessary, to stay abreast with technological and industrial needs.

In this fast changing world, irreversible changes have occurred, and our University stands ready to meet the challenges of improving economic and social well-being. University of Gwadar is uniquely positioned to be innovative and capitalize on new ideas, approaches and technologies. We at UoG intend to provide our students with the key for unlocking the door to a prosperous and fulfilling future.

If you wish to become a successful professional or entrepreneur, then join us. I would like to welcome you at University of Gwadar to study the most demanding and challenging discipline of your choice.

**Prof. Dr. Syed Manzoor Ahmed**  
Pro-Vice Chancellor



# University Statutory Bodies

## Senate

**Hon'able Governor Balochistan** (Chairperson)  
Chancellor University of Gwadar  
Governor Balochistan

**Mr. Dostain Khan Jamaldini** (Member)  
Secretary Local Government  
Govt of Balochistan, Quetta

**Mir Naseebullah Marri** (Member)  
Minister Education Govt of Balochistan

**Engr. Prof. Dr. Mushtaq Ahmed Shah** (Member)  
Vice Chancellor  
Mir Chakar Khan Rind University

**Prof. Dr. Abdul Razzaq Sabir** (Member)  
Vice Chancellor University of Gwadar

**Prof. Dr. Akram Dost** (Member)  
Ex-Chairman Fine Arts  
University of Balochistan, Quetta

**Prof. Dr. S. Manzoor Ahmed** (Member)  
Pro Vice Chancellor University of Gwadar

**Dr. Yarjan Abdul Samad** (Member)  
Scientist

**Prof. Dr. Jan Muhammad** (Member)  
Acting Dean Faculty of Management Sciences,  
Commerce & Social Sciences  
University of Gwadar

**Prof. Dr. Dost Muhammad Baloch** (Member)  
Vice Chancellor LUWAMS Uthal

**Dr. Dhani Bux Talpur** (Member)  
Acting Dean Faculty of Sciences, Engineering &  
Technology University of Gwadar

**Ms. Gul Khalid Baloch** (Member)  
Principal Government Girls Degree College, Turbat

**Hon'able Mr. Justice Muhammad Hashim Khan Kakar** (Member)  
Judge of Balochistan High Court

**HEC Representative** (Member)  
Higher Education Commission Pakistan

**Dr. Kambar Farooq** (Member)  
Assistant Professor Management Sciences  
University of Gwadar

**Mr. Abdul Nasir Dotani** (Observer)  
Principal Secretary to Governor/ Chancellor PSUs

**Hafiz Abdul Majid** (Ex-Officio Member)  
Secretary College, Higher & Technical Education  
Govt. of Balochistan, Quetta

**Mr. Dolat Khan** (Secretary)  
Registrar  
University of Gwadar

**Mr. Kambar Dashti**  
(Ex-Officio Member)  
Secretary Finance Govt. of Balochista,

## Syndicate

**Pro. Dr. Abdul Razzaq Sabir (TI)**

Vice Chancellor University of Gwadar

Chairperson

**Hafiz Abdul Majid**

Secretary to Govt of Balochistan  
Colleges, Higher & Technical Education

Member  
Ex-Officio

**Pro. Dr. S. Manzoor Ahmed**

Pro Vice Chancellor  
University of Gwadar

Member

**Prof. Dr. Jan Muhammad**

Acting Faculty of Mmanagement sciences, Commerce and Social Science  
University of Gwadar

Member

**Dr. Dhani Bux Talpur**

Acting Faculty of Sciences, Engineering and Technology  
University of Gwadar

Member

**Prof. Dr. Jan Muhammad**

Professor Management Sciences Dept  
University of Gwadar

Member

**Mr. Dolat Khan**

Registrar  
University of Gwadar

Member/  
Secretary

**Mr. Shafi Muhammad**

Director Finance  
University of Gwadar

Member

**Mr. Mujahid Hussain**

Acting Controller of Examination,  
University of Gwadar

Member

**Mr. Abdul Nasir Dotani**

Principle Secretary to Governor Balochistan

Observer

**Dr. Kamber Farooq**

Director QEC  
University of Gwadar

Member



# University Statutory Bodies

## Finance and Planning Committee

**Prof. Dr. Abdul Razzaq Sabir (TI)**

Vice Chancellor  
University of Gwadar

Chairman

**Prof. Dr. Manzoor Ahmed Syed**

Pro Vice Chancellor  
University of Gwadar

Member

**Mr. Kambar Dashti**

Secretary Finance  
Govt. of Balochistan Quetta

Ex-Officio  
Member

**Mr. Mujahid Hussain**

Acting Controller/ Member Syndicate  
University of Gwadar

Member

**Prof. Dr. Jan Muhammad**

Acting Dean Faculty of Management Science Commerce & Social Science  
Member Academic Council University of Gwadar

Member

**Dr. Dhani Bux Talpur**

Acting Dean Faculty of Sciences Commerce & Social Science  
Member Academic Council University of Gwadar

Member

**Mr. Dostain Khan Jamaldini**

Secretary Local Government  
Govt. of Balochistan

Member

**Mr. Dolat Khan**

Registrar University of Gwadar

Member

**Mr. Shafi Muhammad**

Director Finance/ Treasurer  
University of Gwadar

Secretary

**Mr. Abdul Nasir Dotani**

PS to Governor Balochistan

Observer

**Dr. Kamber Farooq**

Deputy Director QEC  
University of Gwadar

Member Non-voting

# University Statutory Bodies

## Academic Council

<b>Prof. Dr. Abdul Razzaq Sabir (TI)</b> Vice Chancellor University of Gwadar	<b>Chairman</b>
<b>Prof. Dr. Manzoor Ahmed Syed</b> Pro Vice Chancellor University of Gwadar	
<b>Hafiz Abdul Majid</b> Secretary College, Higher & Technical Education Govt. of Balochistan, Quetta	Member Ex-Officio
<b>Prof. Dr. Jan Muhammad</b> Acting Dean Faculty of Management Science Commerce & Social Science Member Academic Council University of Gwadar	Member
<b>Dr. Dhani Bux Talpur</b> Acting Dean Faculty of Sciences Commerce & Social Science Member Academic Council University of Gwadar	Member
<b>Mr. Mujahid Hussain</b> Lecturer Department of Commerce	Member
<b>Miss Haim Gul</b> Lecturer Department of Computer Science	Member
<b>Mr. Mukhtar Bashir</b> Lecturer Department of Education	Member
<b>Ms. Shahnaz Noor</b> Lecturer Department of Management Sciences	Member
<b>Mr. Fida Hussain</b> Lecturer Department of Management Sciences	Member
<b>Prof. Dr. Jan Muhammad</b> Professor Management Sciences Dept University of Gwadar	Member
<b>Mr. Dolat Khan</b> Registrar University of Gwadar	Member/ Secretary
<b>Mr. Mujahid Hussain</b> Acting Controller University of Gwadar	Member
<b>Mr. Ghulam Sarwar</b> Incharge Library	Member
<b>Mr. Shafi Muhammad</b> Director Finance/ Treasurer University of Gwadar	Member
<b>Mr. Abdul Nasir Dotani</b> PS to Governor Balochistan	Observer
<b>Dr. Kamber Farooq</b> Deputy Director QEC University of Gwadar	Member





# Campus Life

## Establishment of University of Gwadar

The University of Gwadar was formally operationalized and started functioning as a full-fledged autonomous university as University of Gwadar soon after appointing a Vice Chancellor for University of Gwadar by Governor Balochistan on 25<sup>th</sup> October, 2021. Earlier it remained a Sub Campus of University of Turbat from September, 2016 to October, 2021 and then transformed into a full-fledged university as University of Gwadar on 25<sup>th</sup> October, 2021.

The Honorable Governor of Balochistan appointed Prof. Dr. Abdul Razzaq Sabir as the first Vice Chancellor of University of Gwadar on 25<sup>th</sup> October, 2021. The first Vice Chancellor of University of Gwadar assumed the charge on Friday 29<sup>th</sup> October, 2021. The University of Gwadar (formerly known as UoT's Gwadar Campus) started its academic activities from January 2017 in a portion of the building of Govt. Boys Degree College Gwadar. The University offers four BS programs in the fields of Management Sciences (BBA), Computer Science (BSIT), Education (B.Ed. Hons) and Commerce (BS Commerce).

## Background

After thorough deliberation and approval of the recommendations towards establishment of a Sub Campus of University of Turbat (UoT) at Gwadar from different meetings and statutory bodies, the proposal was finally presented in the UoT's apex statutory body (the Senate) during its first meeting chaired by the Honorable Governor Balochistan/Chancellor PSUs, held on March 30<sup>th</sup>, 2016 at University's Public Library at Turbat.

In pursuance of principle approval by the Honorable Governor Balochistan, the Higher Education Commission (HEC) of Pakistan issued a notification on July 4<sup>th</sup>, 2016 to set up a Sub Campus of University of Turbat at CPEC central city Gwadar.

## Establishment of UoT's Gwadar Campus

The Gwadar Campus of University of Turbat was established during September 2016, under the project "Establishment of Sub Campuses of Public Sector Universities at district Level Phase-I" initiated by HEC with a vision that the same campus will be upgraded in to a full-fledged university, as "University of Gwadar" of international standard in the near future.

And now the same campus has been upgraded as University of Gwadar in October, 2021.

## Existing Enrollment and Faculty

The first admissions in four BS Programs were announced on August 31<sup>st</sup>, 2016 while applications for the position of Lecturer were invited on October 18<sup>th</sup>, 2016. The number of regular faculty members is 15 while 28 are providing services as Visiting Faculty. At present around 400 students are enrolled in the University.

## Recognition of Campus by HEC

The HEC accorded formal recognition of Sub Campus of University of Turbat at Gwadar in September 2018. Here it's worth mentioning that among all sub-campuses (09) of different universities were set up in Balochistan under this project by the HEC; the UoT's Gwadar Campus was the first one which was issued NOC by the HEC and included it in the list of recognized Sub Campuses of Public Sector Universities of HEC.

## Aims and Objectives

The primary objective of the university is to give students with high-quality, comprehensive educational and training possibilities that are adaptable to their changing requirements. The university's academic programs aim to provide students with the skills they'll need to succeed in a quickly evolving world and prepare them with the challenges of the 21<sup>st</sup> century. To reach the aim, the Institute works to produce individuals with a solid foundation in education and research, as well as the capacity and vision to lead the way.

The university's environment and infrastructure support academics and students in reaching their full potential for scholarship, creative work, professional growth, and service. Among order to accomplish its objective, the University of Gwadar cultivates a sense of responsibility in its students.



## OFFICE OF THE REGISTRAR

### Mr. Dolat Khan

(Registrar)

#### Registrar Office Team

- **Mr. Abdul Majid**  
Assistant Director Admin
- **Mr. Aamir Imam**  
Personal Assistant
- **Mr. Dur Jan**  
Office Assistant

The Registrar's Office oversees official student academic records and is accountable for their accuracy, integrity, and security. Students, faculty, staff, and other stakeholders can get academic help and information from it. The Office of the Registrar is the primary service provider within the University's offices. It is the facilitator and custodian of all academic, statutory, and related matters at the University. In collaboration with other departments, we develop, implement, support, and enforce academic policies pertaining to registration services, enrollment and degree verification, class scheduling, grade processing, managing degree audit, processing degree applications, verifying student enrollment status to lenders, and coordinating/facilitating the University's campus-wide registration system.



## OFFICE OF THE DIRECTOR FIANACE

### Mr. SHAFI MUHAMMAD

(Director Finance)

#### Director Fianace Office Team

- **Mr. Rehmat Ullah**  
Assistant Director Finance
- **Mr. Muhammad Fahim**  
Office Assistant

The Treasurer's office manages the assets, liabilities, receipts, expenditures, funds, and investments of the University and prepare the annual and revised budget estimates of the University and present them to the Syndicate or a committee thereof for approval and incorporation in the budget to be presented to the Senate. The office will ensure that the funds of the University are expended on the purposes for which they are provided and have the accounts of the University audited annually to be available for submission to the Senate within six months of the close of the financial year.





## OFFICE OF THE CONTROLLER EXAMINATION

### **Mr. Mujahid Hussain**

(Acting Controller)

### Controller Examination Office Team

- **Mr. Arif**  
Assistant Examination Cell

The office of the Controller Examination, University of Gwadar is responsible for ensuring quality and conducting examination for undergraduate and graduate level. The semester policies, rules and regulation for degree programs, diploma and short certificate courses being offered by the different faculties are also decided and implemented by the office of the controller examination. Apart from examination, this office is also responsible for exam schedules, conducting and accountability of examination, collection and issuance of detailed mark sheet and other certificates.

The academic standing of a student is referred as grade point average (GPA), which is the ratio of the total number of grade points earned to the total number of credits attempted. The maximum possible GPA is 4.00, however the minimum semester GPA to remain in satisfactory academic standing is 2.00. Students are placed on academic probation at the end of any semester in which their semester GPA falls below 2.00.

A student whose semester GPA remains below 2.00 is given a warning for his/her poor performance. If any of student's CGPA remains below 2.00 for two consecutive semesters his/her name is removed from the roll of the Institute. A student can start as a fresher upon request with no credit transfer if two consecutive probations are experienced in first two semesters.

## Registration Schedule

Students have to register for their courses during the period specified for the purpose before the commencement of a semester. The office of the Examinations, before the start of every semester, will notify the registration deadline.

## Attendance Rule

Although the students are expected to attend all the lecture and laboratories work pertaining to their courses of study but are required to attend at least 75% of the total Lecture/Lab work for each course to qualify for appearance in the final examination.

## Repeating Courses

Courses in which students secure F grade are required to repeat the entire course. They may have an option for a substitute course only if there is an alternative in the curriculum. Students can repeat courses if they secure F, D+ or D grade, on the condition that they repeat the courses within 3 semesters after the semester in which they obtained these grades. In case of repeated courses, all grades achieved by students appear in their transcripts. However, only the latest grade in chronological order will be counted for the Cumulative Grade Point Average, even if it is lower than the earlier one.

# Academic Calendar

## Spring 2023

Activity	Date
Commencement of Classes	Thursday, January 16, 2023
Mid-Term Examinations	Monday, March 27, 2023 TO Saturday, April 1, 2023
Resumption of Classes after Mid-Term Examinations	Monday, April 3, 2023
End of Classes	Friday May 26, 2023
Final-Term Examinations	Monday, May 29, 2023 TO Tuesday, June 6, 2023
Final Result Submission	Monday, June 12, 2023
Result Declaration and Announcement	Monday, June 19, 2023

## Fall 2023

Activity	Date
Commencement of Classes	Tuesday, August 15, 2023
Mid-Term Examinations	Monday, September 25, 2023 TO Saturday, September 30, 2023
Resumption of Classes after Mid-Term Examinations	Monday, October 2, 2023
End of Classes	Friday, November 17, 2023
Final-Term Examinations	Monday, November 20, 2023 TO Saturday, November 25, 2023
Final Result Submission	Monday, December 4, 2023
Result Declaration and Announcement	Monday, December 11, 2023

## Public Holidays

Holidays	Date
Kashmir Day	Saturday, February 5, 2023
Pakistan Day	Thursday, March 23, 2023
*Eid-ul-Fitr	Friday, April 21, 2023 To April 25, 2023
Labor Day	Monday, May 1, 2023
Independence Day	Monday, August 14, 2023
Milad un-Nabi	Wednesday, October 27, 2023

### Note:

The University reserves the right to make any change in academic calendar as required.

\*Subject to the appearance of moon.

The announcement of aforementioned holidays is subject to the announcement of Federal Government.

# Examination

## Semester Freeze Policy

- Student can freeze a semester and will resume his/her studies from the same stage where froze.
- No freezing during the semester will be allowed. The maximum duration of the degree program shall remain the same.

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

## Examinations Office

The Examination Office works under the supervision of Director Admissions & Examinations. This office is responsible for preparing class and examination schedules, holding of semester's examinations, maintenance and compilation of results issuance of semester result reports, transcripts, certificates and degrees.

## Credit Hour System

The credit hours assigned to a theory or a laboratory courses are determined by the contact hours allocated to it per week throughout a semester. For a theory course one credit hour is equivalent to one contact hour of lecture per week, and for a laboratory course, three contact hours of practical work per week constitute one credit hour.

## Semester Credit Load

Students can normally register in accordance with his / her degree program, 15-18 credit hours in a semester. No exception to this upper limit is allowed to regular students. However, in later years this limit may be relaxed for those who are repeating courses, with the approval of the Department Chairperson. Under all cases the maximum limit remains 24 credit hours.

## Degree Requirements

For a Bachelor degree a student must earn a minimum of 124 to 136 credits, depending upon his / her Department. At the time of graduation, the Cumulative Grade Point Average (CGPA) should not be below 2.00.

## Course Codes

The courses are identified by the course numbers, which consist of two letters and three digits. The first two letters represent the major field; the first digit indicates the level of course; the last two digits represent the sequence number of course offered in the same area.

## Student Evaluation

Students are evaluated by mid-semester test, home assignments, quizzes, case studies, course project, laboratory reports, oral tests and with the final-term examination. The weight allocated to them depends upon the nature of the course. The marks distribution are represented below:

Nature of Examination	Percentage
Sessional Marks	30%
Mid Semester Exam	30%
Terminal Exam	40%



# Examination

## Grading System

Depending upon academic performance, students are awarded grades A, A-, B+, B-, C+, C, C-, D+, D, F, for each course. These grades indicate the following levels of performance:

Percentage of Marks	GPA	Grade
85 and above	4.00 - 4.00	A
80-84	3.70 - 3.90	A-
75-79	3.40 - 3.60	B+
70-74	3.00 - 3.30	B
65-69	2.50 - 2.90	C+
60-64	2.00 - 2.40	C
50-59	1.00 - 1.90	D
Less than 50	0.00	F

## Supporting documents for Admission Form Submission

1. Attested copy of Secondary School Certificate
2. Attested copy of Higher Secondary School Certificate
3. Attested copy of the Applicant's CNIC / B-form
4. Attested copy of Local/Domicile
5. Bank draft/pay order/receipt of cash payment (admission processing fee)
6. Six recent photographs (passport size)
7. Attested copy of CNIC of the applicant's father/guardian
8. Attested copy of Character Certificate from the last institute attended.





## DIRECTORATE OF INFORMATION TECHNOLOGY

### Mr. Hafeezullah

Director IT (Acting)

### Directorate of IT Team

- **Mr. Akram Rasheed**  
Network Assistant
- **Ms. Jawria Nabi Bakhsh**  
Lab Assistant
- **Mr. Uzair**  
Lab Assistant

Information Technology directorate is the backbone of any organization. Organizations are empowering their Information and Technology departments to meet the challenges of modern era. The Directorate of Information Technology at University of Gwadar has been established to support and strengthen quality higher education and Research in the institute. It is mandated to provide IT standards, guidelines and policy, strategic plan, and development in the University. The directorate maintains oversight for matters delegated under this jurisdiction, and acts authoritatively within the scope of established policies, procedures, and guidelines for its operations. Directorate of IT strives to provide dedicated Services to Students, Faculty, Administration. The Services being provided by IT Directorate Include:

### Internet Connectivity Through Pakistan Education Research Network (PERN 2)

PERN is a subsidiary organization of Higher Education Commission which connects and provides ICT services to Educational Institutes and R&D Organizations. The University of Gwadar is connected to PERN with @60 Mbps dedicated bandwidth. Internet Services are being provided to all the campuses/ building as well as hostels and other residential areas through ethernet cables and Wifi-hotspots, managed via Local Area Network (LAN) of UG.

### State of the Art Computer Labs:

Currently IT Directorate manages four computer labs which are equipped with high processing desktop computers. The labs are completely solarized with 24/7 electricity backup and complete LAN networking.

### Web Administration:

University of Gwadar has a fully functional up to date website. The website contains all the information and updates related to the structure and regular activities of the university. It will be embedded with student information portal in near future.

### Email Administration:

Official correspondence at UG is being done using official email Ids provided to the staff, maintained by IT Directorate. Furthermore, the students have also been assigned official email Ids for LMS services.

### Access to Licensed Software:

The staff and students are being provided licensed software services like Windows 10/11, Microsoft Office, Microsoft Office 365, Visual Studio, Turnitin and many other software products.



# Facilities

## Seminar Hall

A seminar hall is also situated in the main campus for conducting seminars, exhibitions, lecture sessions and other events. More than 100 participants can be seated in the seminar hall.



## Cafeteria

The University of Gwadar has a well-furnished and a self-service cafeteria serving delicious fast food and snacks for campus students and faculty members. The cafeteria has seating for more than 30 students at a time with separate section for male and female students.





# Facilities

## Transport Services

The University of Gwadar (UG) has its own large fleet of buses, minibuses and vans that provide pick and drop facility to its students around the city. The University also provides van services to its staff & faculty members. The University also provides transport facility to its students for field work and annual picnics once a year to each department on need basis. A detailed transport plan along with specified routes can be obtained from the transport office of UG. Transport facilities are also available to the adjacent cities of Gwadar.



## Study and Exposure Tour

The university organises study and exposure tours to other institutes, industries, and tourist destinations throughout the country. Students are encouraged to participate in intra-university competitions and to gain experience by visiting other universities. During these tours, students are encouraged to develop interpersonal skills with their classmates through shared learning.





# Facilities

## Sports Facilities

We are certain that a healthy body is necessary for a healthy mind. In this regard, the UG has invested in purpose-built sports and recreational facilities which include spaces for table tennis, cricket, and football. A football field is also being developed for students. Sports at the University are managed by a dedicated department of sports.



## Central Library

University of Gwadar has a central library that is open to all students and faculty members. The library has a large collection of books, reference materials, research journals, magazines, and periodicals. Furthermore, the library houses a wide range of specialised information, such as publications from international and national organisations and statistical data. Teachers and students have easy access to online research resources and the Internet. Downloading research materials is possible through the Pakistan Education & Research Network (PERN) facility on the HEC website.







# ACADEMICS



**Faculty of Management Sciences,  
Commerce and Social Sciences**





## **Prof . Dr. Jan Muhammad**

Dean (Acting)

PhD(University of Karachi, PK)

### **Departments:**

- **Commerce**
- **Economics**
- **Education**
- **English**
- **Management Sciences**

## **Dean Message:**

Welcome to the University of Gwadar!

As dean of the Faculty of Management Sciences, Commerce and Social Sciences, I am extremely proud of the rich tradition of providing practical, experiential-based education that our university has upheld since its founding. Our undergraduate and diploma programs prepare our students to become leaders with the moral depth and intellectual intensity necessary to meet the challenges of a time of critical transition in society.

Located in an economic and cultural hub, the University of Gwadar offers unique opportunities for our students to engage with different companies and communities. For example, through the Capstone Experience, our MBA students have completed different strategic consulting projects for local and national companies, entrepreneurial ventures and not-for-profit organizations. The Capstone Experience has not only benefited the business community, but has provided the perfect opportunity for our students to begin putting their education into action.

Central to the success of our students and University of Gwadar Business alumni, has been the decades of leadership and experience-based knowledge that our faculty bring into the classroom. As thought leaders in their industry, the knowledge and research contributions of our faculty continue to drive change and have a positive societal impact at the university, in the community, and across the globe.

I invite all of you who are interested in expanding your knowledge and enriching your careers to explore our university further either online or through a visit to campus. I hope that you will join our community of life-long learners.



# Department of Commerce

## Programs:

- BS Commerce (4 Years)
- Diploma in Accounting and Finance (1 Year)





## Mr. Mujahid Hussain

Chairperson (Acting)

M.Com (University of Balochistan Quetta, PK)

B.Com (University of Turbat Kech, PK)

### Faculty

- Mr. Mujahid Hussain  
M.Com ( University of Balochistan Quetta, PK)
- Mr. Zain ul Abideen  
MS in Finance ( IoBM Karachi, PK) In-Progress

### Teaching Fellows

- Ms. Shenila  
MBA (Ilma University Karachi, PK)
- Mr. Shehzad  
BS in Commerce ( Benazir Bhutto Shaheed University Liyari , PK)

# Introduction

The academic activities for all four departments including commerce were formally started from 16th January 2017 and Department of Commerce has successfully passed out its first batch of two years B.Com session 2017-18. After successfully passing out a two year program, the Department of Commerce has announced its BS-Commerce (4 Years) program from 2018 as Higher Education Commission (HEC) Pakistan instructed to phase out all two years bachelor programs. From 2018 onward, Commerce is currently running its BS-Commerce (4 years) and its 4th batch in the same.

After a successful journey of four (4) years as a campus, the Gwadar Campus has formally converted into a Full-fledged University as University of Gwadar on 25th October 2021 by appointing its first Vice Chancellor. Luckily, Prof. Dr. Abdul Razzaq Sabir, as first Vice Chancellor University of Gwadar took over the charge on 29th October 2021.

Department of Commerce in all Universities within a country plays a pivotal role in the promotion of commerce related activities like trade and logistic, import export, auditing and taxation, accounting and finance with all other relevant fields that are the key contributing areas of social and economic development of a nation. With the same perspective and vision, the department of



commerce along with its core team, is providing its utmost capacity to work for the region by engaging the energetic youth of society and making them to be enrolled in different programs which are running under the renowned stream known as Commerce.

The programs that we have, are designed with theoretical, conceptual and practical knowledge including Business, Economics, Finance, Banking, Auditing, Taxation, Accounting, Management, Business Law and many other fascinating subjects necessary to understand commerce stream and their implementation in real life. It also introduces practical knowledge including Industrial and Banking sector visits, capital market like Stock Exchange, Internship and report writing, projects and group works on different organization which are the biggest sources of imparting practical wisdom and understanding the real life situations while working in regional, national and international level organization around the world.

Our academic and extra-curricular activities are not limited here but the department has a vast vision and planning to include new course that best fit with the current market trend as well as to cover the future market demand. We are also committed to work with chamber of commerce which will be the biggest platform for the entire region by providing countless opportunities to the students as well as to our alumnae for representing themselves with the youth of entire country that will certainly help the society, region and economy as whole.

## Vision Statement

To provide market oriented, research based Knowledge with optimal commitment and excellence in order to produce skilled youth for a sustained socio-economic development.

## Objective of the department

- To create a very competitive learning environment in which students can get maximum benefit by sharing their knowledge, wisdom and experiences from two way communication regarding business organizations in the region.
- To work with the youth of region and provide countless opportunities in corporate sector by introducing wide-ranging subjects along with practical knowledge.
- To prepare the energetic youth of the region and make them capable to meet the demand of skilled, professional and experienced human resource market for future.
- To identify and fill the gap of corporate as well as public and private sector organizations in terms of professional including Accountant, Finance Analyst, Auditors, Banking Executives, Economic Analyst, Trade and Logistic Managers and so other exciting job opportunities waiting to be filled by the competent professionals.



# Introduction

- To build the capacity of youth of the region in terms of critical thinking, analytical skills, problem solving abilities and practical aspects by introducing with real life situations, role playing activities, teamwork challenges as part of their academic career in different degree programs.

The Department Offer Following Programs:

## (Bachelor of Science in Commerce)

The program is combined with variety of subjects which are related to daily life situations being practiced by the every individual of the society. The courses of BS (Commerce) includes Management, Economics, Accounting, Finance, Marketing, Banking, Auditing, and Taxation as core competencies. Apart from these core courses, students will also have various supporting courses knowledge which includes, Business Communication, Sociology, Self-Management Skills, Psychology, Business Ethics, Organizational Behavior, Business Research and Business Law as to know the social and ethical values for doing a business or working at any level of public and private organization at any level of hierarchy. In this program, students will also need to be involve in different practical tasks, projects as course requirement to visit Banks, Project Management Units (PMUs), Industries, Internships in Public and Private sector organizations and different level of entrepreneurial challenges in different Universities of the country. Students will also need to prepare an internship report, or research on a business issue and a comprehensive project at the final semester of BS(Commerce) required for degree completion of the program successfully.

## Program Learning Outcome (PLO)

Commerce Program is primarily designed for corporate world which aims to prepare the youth of the region to convert their dreams into the reality especially in the field of business and to contribute in different levels of corporate world so the social and economic objectives are attained. The program has several objectives which are briefly discussed below:

## Academic Education

To produce business graduates, Professional and experts youth and to prepare to fill the future demand of market.

## Knowledge for Solving Business Issues

To apply the basic theories, concept and practical knowledge to identify the current business related issues existing in the market and making them capable to understand the real market situations as well as to analyze the available options for solving those challenges.

## Problem Analysis

Identify and collect the facts and figures regarding issues with the help of conducting different research methods, mathematical formulas, statistical representation and financial cost and benefit analysis for solving those issues and coming up with better and effective results.

## Individual and Team Work

Perform, coordinate and function as team on different task to boost their team work skills, leadership qualities, role playing characters and be as an effective individuals for the tasks assigned to them during the academic career as well as in their real lives.

## Language and Communication Skills

Communicate with any person, colleagues, managers, client and other hierarchical setup in an organization effective and efficient manner with the help of concept and philosophies and basics of communication.

## Business Ethics

Know the limitation of organizational system, ethics for doing business or being part of any sort of private, public business organization and ignoring the practices which are illegal as well as against the ethics of business organization.

## Life-long Learning

Diagnose the need and requirement of the society and have to be equipped with practical knowledge and experienced to offer the services to the society and be engaged with organization as an independent professional.

## Research and Internship Report

Practically work as internee within a national level public or private sector organization in accordance with the specialized subject with a period of 6 weeks to understand the real life implementation of program subject within the organizational setup. A report after the internship is to be prepared and submitted by the internee to the Head of The Department discussing the organizational hierarchy, working environment, management, practical learning, critical thinking and recommending the organization for their weakness so the organization could get the benefit from research based and updated student of current era.

# Requirements

## Admission Criteria

At least 45% marks in intermediate / I.Com / D.Com or equivalent certificate.

## Fee Structure

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	1,500
2	Tuition Fee	6,500
3	Security Money Refundable (Onetime fee)	2,000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	2,000
7	Sports Fee	250
8	Transport Fee per semester	250
9	Library Fee	250
10	Total (First Semester Fee)	13,200
	Fee per semester from 2nd to 8th	9,200

## Degree Requirement for the BS Commerce

For obtaining Bachelor of Science degree in Commerce, a student has to complete Minimum 138 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (Commerce) degree offered by Department of Commerce are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Compulsory Course	ENG-301	Functional English	3	39
	MAT-301	Business Mathematics	3	
	ENG-302	Business Communication	3	
	ENG-303	Oral Communication	3	
	MAT-302	Business Statistics	3	
	ITC-301	Introduction to Computer	3	
General Courses	COM-301	Islamic & Pak Studies	3	
	COM-303	Introduction to Sociology	3	
	MAN-305	Business Ethics & Corporate Social Responsibilities	3	
	ECO-303	Economy of Pakistan	3	
	COM-302	Introduction to Psychology & Critical Thinking	3	
	MAN-306	Organizational Behavior	3	
	MAN-309	International Business	3	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Foundation Courses	ACT-302	Financial Accounting-I	3	39
	MAN-301	Introduction to Business	3	
	ECO-301	Microeconomics	3	
	ECO-302	Macroeconomics	3	
	MAN-303	Principles of Management	3	
	MAN-304	Principles of Marketing	3	
	LAW-301	Business Law	3	
	FIN-301	Introduction to Business Finance	3	
	ACT-304	Cost Accounting	3	
	AUD-301	Principles of Auditing	3	
	TEX-301	Business Taxation	3	
	BAN-301	Money and Banking	3	
	MAN-302	Self-Management Skills	3	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Core Courses	ACT-302	Financial Accounting-II	3	42
	ACT-303	Advanced Accounting-I	3	
	ACT-305	Advanced Accounting-II	3	
	FIN-302	Financial Management	3	
	MAT-303	Inferential Statistics	3	
	Man-311	Business Research Methods	3	
	ACT-306	Managerial Accounting	3	
	ECO-304	Managerial Economics	3	
	MAN-307	Human Resource Management	3	
	Law-302	Corporate Law	3	
	MAN-308	Entrepreneurship	3	
	MAN-312	Strategic Management	3	
	ITC-302	E-commerce	3	
	Man-310	Corporate Governance	3	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Elective Courses	Accounting			
	ACT-501	Company Accounting	3	
	ACT-502	International Financial Reporting Standards-I	3	
	ACT-503	International Financial Reporting Standards-II	3	
	ACT-504	International Financial Reporting Standards-III	3	



# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Elective Courses	ACT-505	Public Sector Accounting	3	12
	ACT-506	Analysis of Financial Statements	3	
	ACT-507	Environmental Accounting	3	
	ECO-501	Econometrics	3	
	ACT-508	International Accounting	3	
	Finance			
	FIN-501	Financial Markets & institutions	3	
	FIN-502	Analysis of Financial Statements	3	
	FIN-503	Investment and portfolio Management	3	
	FIN-504	International finance	3	
	FIN-505	Islamic finance	3	
	FIN-506	Treasury and Fund Management	3	
	FIN-507	Project finance and Evaluation	3	
	ECO-501	Econometrics	3	
	FIN-509	Risk Management	3	
	FIN-508	Financial Derivation	3	
	Audit & Taxation			
	AUD-501	Auditing and Assurance	3	
	AUD-502	Forensic and Investigation Auditing	3	
	AUD-503	Internal control system and compliance	3	
	AUD-504	Performance audit and Evaluation	3	
	TAX-501	Income tax law	3	
	TAX-502	Sales tax laws	3	
	TAX-503	Custom duty laws	3	
	TAX-504	Excises duty laws	3	
	Banking			
	BAN-501	Commercial Banking Operations	3	
	BAN-502	SME Banking	3	
	BAN-503	Consumer Banking	3	
	BAN-504	Islamic Finance	3	
	BAN-505	Credit and Risk Management	3	
	BAN-506	E-Banking	3	
	BAN-507	International Banking	3	
	BAN-508	Anti-Money Laundering	3	
	ECO-501	Econometrics	3	

# Semester Wise Study Plan

## Semester Wise Study Plan of BS (Commerce)

Tentative course offering plan for BS (Commerce) degree offered for Spring 2023 is given below in a semester wise format.

	Course Code	Course Title	Pre-requisite	Credit Hours
1 <sup>st</sup> Semester (Credit Hours-18)	COM-301	Islamic & Pak Studies	None	3
	ENG-301	Functional English	None	3
	ITC-301	Introduction To Computer	None	3
	MAT-301	Business Math	None	3
	MAN-301	Introduction To Business	None	3
	ACT-301	Financial Accounting I	None	3

	Course Code	Course Title	Pre-requisite	Credit Hours
2 <sup>nd</sup> Semester (Credit Hours-18)	MAN-302	Self-Management Skill	None	3
	ENG-302	Business Communication	ENG-301	3
	MAN-303	Principle Of Management	MAN-301	3
	MAT-302	Business Statistic	None	3
	ECO-301	Micro Economic	None	3
	ACT-302	Financial Accounting II	ACT-301	3

	Course Code	Course Title	Pre-requisite	Credit Hours
3 <sup>rd</sup> Semester (Credit Hours-18)	COM-302	Introduction To Psychology	None	3
	ENG-303	Oral Communication	ENG-302	3
	MAN-304	Principles of Marketing	MAN-303	3
	LAW-301	Business Law	None	3
	ECO-302	Macro-Economic	ECO-301	3
	ACT-303	Advance Accounting – I	ACT-302	3

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
4 <sup>th</sup> Semester (Credit Hours-18)	COM-303 Introduction To Sociology	None	3
	BAN-301 Money And Banking	None	3
	FIN-301 Intro. To Business Finance	None	3
	AUD-301 Principles Of Auditing	ACT-301	3
	ECO-303 Economy Of Pakistan	ECO-302	3
	ACT-304 Cost Accounting	ACT-301	3

Course Code	Course Title	Pre-requisite	Credit Hours
5 <sup>th</sup> Semester (Credit Hours-18)	MAN-305 Business Ethics	None	3
	MAN-306 Organizational Behavior	None	3
	FIN-302 Financial Management	ACT-301	3
	TEX-301 Business Taxation	FIN-301	3
	MAN-307 Human Resource Mgt.	ACT-301	3
	ACT-305 Advance Accounting – II	MAN-303	3

Course Code	Course Title	Pre-requisite	Credit Hours
6 <sup>th</sup> Semester (Credit Hours-18)	MAN-308 Entrepreneurship	MAN-301	3
	LAW-302 Corporate Law	LAW-301	3
	MAN-311 Business Research Methods	NONE	3
	MAT-303 Inferential Statistics	MAT-302	3
	MAN-309 International Business	MAN-309	3
	ACT-306 Managerial Accounting	ACT-304	3



# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
7 <sup>th</sup> Semester (Credit Hours-15)	MAN-310 Corporate Governance	MAN-301	3
	ECO-304 Managerial Economics	MAN-303	3
	ITC-302 E-Commerce	ECO-301	3
	Elective-1		3
	Elective-2		3

Course Code	Course Title	Pre-requisite	Credit Hours
8 <sup>th</sup> Semester (Credit Hours-15)	MAN-312 Strategic Management	None	3
	Elective-3	None	3
	Elective-4	None	3
	Elective-5 (Internship/Research Project)	None	6



# Diploma in Accounting and Finance

**Program Name:** Diploma in Accounting and Finance

**Duration:** 1 Year (2 Semesters)

**Eligibility Criteria:** Intermediate with 45% Marks

Diploma in Accounting & Finance has been designed to cater the ever-increasing demand in the industry for accounting and finance professionals who are more conceptually equipped and academically sound to take the challenges of day to day organizational tasks. Today's finance world demands more competitive, specific, innovative and tailor-made skills for survival in a globalized business environment. The diploma will also provide a way-in to those having no prior knowledge but intend to join a higher study program.

## Program Objectives

- This diploma aims to deliver the students conceptual understanding of key areas in accounting & finance backed by strong theoretical knowledge in both the disciplines.
- This program enables them to equip with analytical & critical thinking, and problem solving skills required by the contemporary business world.

## First Semester - Spring (Credit Hours-17)

Course Code	Course Title	Pre-requisite	Credit Hours
ACT-301	Fiancial Accounting I	None	3
MAN-303	Principle of Management	Intro. to Business	3
ITC-301	Introduction to Computer	None	3
ENG-302	Business Communication	Functional English	3
MAN-301	Introduction to Business	None	3
FIN-301	Introduction to Business Fianance	None	3
Total Credit Hours			18

## Second Semester - Fall (Credit Hours-16)

Course Code	Course Title	Pre-requisite	Credit Hours
ACT-302	Fiancial Accounting II	Fiancial Accounting I	3
ACT-304	Cost Accounting	Fiancial Accounting I	3
BAN-301	Money and Banking	None	3
FIN-302	Financial Management	Fiancial Accounting I	3
FIN-501	Financial Market and Institution	Financial Management	3
Total Credit Hours			15

# Course Description



## **COM-301 Islamic & Pak Studies**

The course aims to provide the basics of Islamic belief and knowledge and role of Islamic concepts in business as well as the introduction and history of Pakistan to the students.

## **ENG-301 Functional English**

The purpose of this course is to introduce the basics of English grammar, concept and theory for writing, reading and speaking as well as the ability to communicate while studying in the BS Program.

## **ITC-301 Introduction to Computer**

In this course, the student will be learning with the basics of MS office in order to prepare their report, make a presentation and do calculation works with the help of Information technology.

## **MAT-301 Business Math**

The purpose of business mathematics in this program is the students must learn the basic arithmetic and implement it into their study for analyzing the business report, shareholders wealth and profit sharing with the help of ration, proportions and percentage.

## **MAN-301 Introduction to Business**

This course is fundamental and most important basic subject in which students will learn the function of business organization, commercial and manufacturing industries, and forms of business that are the key elements for being a businessman nationally and internationally.

## **ACT-301 Financial Accounting I**

Financial Accounting is key subject which aims to provide the basics of business transactions, theory and concept of information and making best economic decisions by the stakeholders of a business organization.

## **MAN-302 Self-Management Skill**

Learning and knowing about oneself is also the most important in an era where competition and market structures are too tough, this course enables the business

students to know the strength, weakness, opportunities and threat that are most needed factor for managers and employee.

## **ENG-302 Business Communication**

After English, this course help and make the students learn the ways of effective communication within organization as well as educational and professional lives of the current students through effective writing skills and techniques.

## **MAN-303 Principle of Management**

This course introduces the managerial functions for business students for their professional and personal lives by implementing the philosophy of Planning, Organizing, Leading and controlling into their business setup as well as personal lives as whole.

## **MAT-302 Business Statistic**

In this course, students will know the tools and techniques of statistical data, representation and analyzing the situation and learn how solve them in accordance with collected numbers and data.

## **ECO-301 Micro Economic**

As a business student, they must be learning the economy and its basic factors for rational decision making among the set of alternate opportunities. This course introduces with the market, its structure and fulfilling the needs and want within limited resources.

## **ACT-302 Financial Accounting II**

This part of financial accounting deals with the principals and concept being used by the public and private sectors worldwide. It introduces with cash management, accounts receivables and inventory management of the organization and recording them for preparation of statements so the stakeholders make effective economic decision.

## **COM-302 Introduction to Psychology and Critical Thinking**

To understand the Psyche of human and functions of senses, this course best fit with the business students as to deal with different minds in workplace as well as in market. The course improve the logical reasoning of students.

## **ENG-303 Oral Communication and Technical Writing**

The objective of oral communication is to improve presentation skills, verbal and non-verbal communication of students as he/she has to present himself/herself in-front of different level of employee, social classes, market and nations while doing business as well as working in any sector and organization.



# Course Description

## **MAN-304 Principles of Marketing**

This course aims for introducing the concept, theories and philosophy of marketing as it is the core component for any sort of business organization as well as other sectors. In this course, students will be learning market research, need and requirement of customers, product, price, place and promotional strategies for a product to meet the demand of society.

## **LAW-301 Business Law**

Business Law is total introduction of a legal system of Pakistan for doing a business either it is a sole business, partnership or joint stock company. The students will be learning about forms of agreement, contract, partnership deed and other legal documents needed for public and private sector organization.

## **ECO-302 Macro-Economic**

Macroeconomics discuss with major economic indicators like National Income, Inflation, Flow of Money in economy, Aggregate demand and supply, employment and working of exchange system in order to make rational economic decision for the business as well as stakeholders.

## **ACT-303 Advance Accounting – I**

Advance Accounting is continuity of financial accounting in which student will be reading the accounting for installment sales, hire purchase system, corporate accounting system and other techniques for business and effective decision making.

## **COM-303 Introduction to Sociology**

This course aims for students to understand the importance of social study into the business, dealing with social classes, community and other social aspects that need to be understood before doing a business as well as starting any sort of economic activity.

## **BAN-301 Money and Banking**

In this course, students will learn the evolution of money, nature and need of money, commercial and banking system, operation of banking within or without country, monetary policy and role of banking institution for a country especially for a business-oriented community.

## **FIN-301 Introduction to Business Finance**

The main objective of this course is to introduce the basics of finance in business organization, forms and sources of finances, financial operations, role and responsibilities of finance manager for an organization. Students in this subject will learn the key theories and concepts that are most needed experiences for a finance manager or business owners.

## **AUD-301 Principles of Auditing**

This course intends to introduce with students the checking and analyzing the financial reports and making them free from error and omission. The main purpose of the course is to enable students how they check and internally control the organization from fraud and other threats.

## **ECO-303 Economy of Pakistan**

As a student as well as an employee in Pakistan context, the knowledge of Pakistan economy must be read, for this purpose, the course will make the students to understand the major contributors of Pakistan economy like agriculture, industries, human resources and service sector and learn how these sectors can be improved for a better and effective production optimization.

## **ACT-304 Cost Accounting**

This course aims for understanding the students' ability about cost concept, flow of costs in organization, types of cost in business, cost minimization in different levels of production in manufacturing industry.

## **MAN-305 Business Ethics and Corporate Social Responsibility**

The core objective of this course is to introduce with basic norms and ethics of business organization, working on social wellbeing by helping society in different ways, following the roles and framework for a good business and having ethical values for operating an organization.

## **MAN-306 Organizational Behavior**

Different groups, culture, race and gender are working for a specific organization under a roof and workplace then it must be for all to follow the organizational behavior. This course helps the students to learn individual and group reaction with each other while working at same workplace.

## **FIN-302 Financial Management**

This part of finance helps the students to understand the wealth maximization related decision making for business, investing and analyzing the return, acquisition and utilization of fund of business organization for better result and minimum risk.



# Course Description

## Alumna Message



### Noor Jahan (Batch-2017)

I am pleased to have an opportunity to express my opinions on the department that has been the biggest source of my career development. I am proud to be an alumna of the Department of Commerce at Gwadar campus. This institution, in my entire journey, taught me how to be strong enough to compete in real-life situations and deal with the difficulties. Today, I can cope with all challenges with a positive attitude. Behind this confidence, capability, and positive approach, are the tireless efforts of my teachers who always kept motivating, counseling, and mentoring us. It is a pride for me to introduce myself as an alumna of the Department of Commerce that provided path to raise my skills and compete with society independently. I am currently serving at Government Girls School in Gwadar as a Junior Elementary Teacher, appointed through CTSP and also running a small online setup by utilising the knowledge and skills gained from my educational career. At last, I encourage all girls of Gwadar, the Commerce discipline is not limited to boys only, there are countless opportunities for girls as well.

### TEX-301 Business Taxation

The taxation system and tax law is mandatory to be studied for a business student. With this objective, this course intends to describe the taxation law, tax policy and rates, types of taxes and calculation of different taxes and tax liability for business and other public sector organization.

### MAN-307 Human Resource Management

This course aims to make student learn about the management of human resources at a workplace. In this course, all human resource related issues, recruitment and selection, motivation, training and development and other human issues will be learnt by the students so they could effectively manage human at work.

### ACT-305 Advance-Accounting - II

This part of accounting will deal with the branch accounting, departmental accounting, analysis of financial statement and other daily based accounting information will be learnt by the students conceptually, theoretically and practically.

### MAN-308 Entrepreneurship

The objective of this course is to develop the critical thinking of students for new business idea, creative opportunities, developing business plan and its execution and other profitable entrepreneurial opportunities to start new venture for social and economic growth.

### Law-302 Corporate Law

This part of Law course aims for students to understand the company ordinance 1984, 2017, Securities and Exchange Committee of Pakistan Act and other relevant legal forums which are established for providing rule and regulation for corporate sector in Pakistan.

### Man-311 Business Research Methods

This course intends to introduce the basic of research and its concept in business. In this course students will learn the method of conducting a correct, valid, and viable research regarding a particular issue whenever is faced by the managers, employees and business organization and providing the best solution from different analysis and hypothesis testing.

### MAT-303 Inferential Statistics

The inferential statistics is another part of statistics in which the students will learn the different statistical models uses for various situations, implementation of statistical tools for solving a real life issues as well as business problems by analyzing the represented data for better decision.

### MAN-309 International Business

In this course, students will be learning the concept and theories of business in international environment. The students will be able to learn the issues and challenges of import and export, globalization, language barriers and currency value of one to another country as well as knowing the external and internal factors while being involve in an international business.

# Course Description

## **Act -306 Managerial Accounting**

Managerial accounting deal with the accounting information and making decision at management level. The decision includes, cost and benefit analysis, best costing method for production, budgeting and cost allocation for different project being run by the organization.

## **Man-310 Corporate Governance**

In this course, students will learn the corporate governance. The students will be learning roles and function of top managers, corporate structure, principles and agent theory, board of directors and their due role for the corporate sector.

## **Eco-304 Managerial Economics**

This course aims to understand the student about the theory of a firm, optimization of production and profit, wealth maximization and scope of a manager while making economic decision by using mathematical tools and techniques.

## **ITC-302 E-Commerce**

This course provide basic tools for doing a business using information technology. Electronic commerce as being the most utilized way for selling and purchasing for customer worldwide must be read and understand by the commerce students so they could best use the tools for making a profitable business virtually.

## **MAN-312 Strategic Management**

This course introduces the top management vision, thinking and solving problems, decision making for long term for achieving the organizational goals. The students will learn the philosophy of managers, executives, and business expert for facing the challenges raise in business world.



## **Alumna Message**



**Amber Bakhtiar  
(Batch-2018)**

Being enrolled in University of Gwadar was the best decision of my life & until now. This institute didn't just shape me in new ways but also through its experienced staff and lecturers. I now vision opportunities from a different prospective. In University of Gwadar, I spent a worth living life through which I discovered my real strength and worked on those features that have always helped me to be unique in my academic career. The diverse team of faculties have always influenced to think differently and identify what differences I can make by utilizing my potentials that can lead me to focus on the objectives which I dream to be in near Future.

University of Gwadar is not just an institution but a home for me because I met everyone like a family in terms of caring team of faculty members and a group of cooperative students during my entire educational life. The courses were not just taught but practically implemented by the teachers in terms of different academic and extracurricular activates the polished as well as enhanced the qualities of students.

I am currently working as an Auditor in Civil Aviation Authority (CAA) Gwadar Airport and It feels me proud of being an alumnus of this prestigious institute and pray this institute keeps enlighten students with bright future and reshaping our coming generation to meet the challenging future.





# Department of Economics

## Programs:

- BS Economics (4 Years)

# Requirements

## Admission Criteria

At least 45% marks in intermediate / I.Com / D.Com or equivalent certificate.

## Fee Structure

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	1,500
2	Tuition Fee	6,500
3	Security Money Refundable (Onetime fee)	2,000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	2,000
7	Sports Fee	250
8	Transport Fee per semester	250
9	Library Fee	250
10	Total (First Semester Fee)	<b>13,200</b>
	Fee per semester from 2nd to 8th	<b>9,200</b>

## Degree Requirement for the BS Economics

For obtaining Bachelor of Science degree in Economics, a student has to complete Minimum 138 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (Economics) degree offered by Department of Economics are given below;

DIVISION OF COURSES		
1. For All Disciplines of BS (4 Years Degree Program):	Courses	Credit Hours
Compulsory Courses (with no choice):	9*	25
General Courses (diversification courses):	8	24
Common Courses For all BS Disciplines:	17	49
2. Specific Courses for BS. Economics (4 Years Degree Program):	Courses	Credit Hours
Foundation Courses :	8	24
Major Courses :	11 - 15	33 - 45
Optional Courses :	4 - 8	12 - 24
Discipline Specific Courses For BS Economics:	27	81
Total Courses for BS Economics (4 Years Degree Program):	44	130

# Requirements

## Compulsory Courses (with no choice): 9

1. For All Disciplines of BS (4 Years Degree Program):	Courses	Credit Hours
Compulsory Courses (with no choice):	9*	25
General Courses (diversification courses):	8	24

\* In lieu of English IV and Intermediate Mathematics university has option to offer any other (non - economics) courses such as Non-English language course, Citizenship Education and Community Engagement, Entrepreneur or any other course.

\*\* Each course worth 3 credit hours, except Islamic Studies/Ethics and Pakistan Studies. The two courses are of two credit hours each.

## General Courses (Diversification): 8

International Relations	Introduction to Geography
General Science	Introduction to Law
Introduction to Sociology	Introduction to Mass Communication
Principles of Political Science	Principles of Psychology
Principles of Accounting	Introduction to Anthropology
Introduction to Philosophy	Principles of Management
Introduction to Logic	Introduction to Education
Introduction to Commerce	One Non-English Language Course such as Arabic, Chinese, etc.

University has option to offer any diversification course depending upon the availability of teacher. Moreover university can expand the list of diversification courses.

## Foundation Courses: 8

Principles of Microeconomics	Intermediate Microeconomics
Principles of Macroeconomics	Intermediate Macroeconomics
Statistics – I	Statistics – II
Mathematical Economics	Econometrics

# Requirements

## General Courses (Diversification): 8

Microeconomic Analysis	Macroeconomic Analysis
International Economics	Financial Economics
Development Economics	Monetary Economics
Islamic Economics	Public Finance
Research Methodology	Issues in Pakistan Economy
Overview of World Economy	Dynamic Optimization***
Time Series and Panel Data Econometrics***	Economic Growth***
General Equilibrium & Welfare Economics***	

\*\*\* University has option to offer any other course(s) in lieu of these, from the list of approved optional courses.

## Optional Courses: 4 – 8

<b>Microeconomics</b> Game Theory Industrial Organization Behavioral Economics Experimental Economics	<b>Macroeconomics and Public Sector Economics</b> Monetary Policy Fiscal Policy Cost-Benefit Analysis Economics of Regulations and Competitive Economy
<b>Labour and Population</b> Labour Economics Population Economics Human Resource Development	<b>Islamic Economics</b> Islamic Banking: Theory and Practice Islamic Finance Divine Economics
<b>International Economics and Finance</b> Trade and Development International Finance	<b>Resource Economics</b> Natural Resource Economics Environmental Economics Energy Economics Economics of Climate Change
<b>Development Studies</b> Development Policy Poverty and Income Distribution Political Economy History of Economic Thought World Economic History Economics of Happiness and Wellbeing	<b>Other Courses</b> Economics of Education Urban Economics Transport Economics Health Economics Institutional Economics Real Analysis Real Estate Economics Economics of Terrorism, War and Conflict

**Note:** University has option to expand the list of optional courses



# Semester Wise Study Plan

## Semester Wise Study Plan of BS (Economics)

Tentative course offering plan for BS (Economics) degree offered for Spring 2023 is given below in a semester wise format.

Semester	Subject	Credit Hours
<b>First Semester (Credit Hours:17)</b>	English - I	3
	Principles of Microeconomics	3
	Islamic Studies / Ethics	2
	Basic Mathematics	3
	Diversification - I	3
	Diversification - II	3
<b>Second Semester (Credit Hours:17)</b>	English - II	3
	Pakistan Studies	2
	Principles of Macroeconomics	3
	Statistics - I	3
	Diversification - 3	3
	Diversification - 4	3
<b>Third Semester (Credit Hours:18)</b>	English - III	3
	Intermediate Microeconomics	3
	Introduction to Computer	3
	Intermediate Mathematics *	3
	Diversification - 5	3
	Diversification - 6	3
<b>Fourth Semester (Credit Hours:18)</b>	English - IV*	3
	Intermediate Macroeconomics	3
	Statistics - II	3
	Issues in World Economy	3
	Diversification - 7	3
	Diversification - 8	3
<b>Fifth Semester (Credit Hours:15)</b>	Microeconomic Analysis	3
	Monetary Economics	3
	Public Finance	3
	Mathematical Economics	3
	Econometrics	3

# Semester Wise Study Plan

Semester	Subject	Credit Hours
<b>Sixth Semester (Credit Hours:15)</b>	Macroeconomic Analysis	3
	International Economics	3
	Development Economics	3
	Financial Economics	3
	Research Methodology	3
<b>Seventh Semester (Credit Hours:15)</b>	Time Series and Panel Data Econometrics**	3
	Dynamic Optimization**	2
	Islamic Economics	3
	Optional - 1***	3
	Optional - 2	3
<b>Eighth Semester (Credit Hours:15)</b>	General Equilibrium & Welfare Economics **	3
	Economic Growth**	3
	Issues in Pakistan Economy	3
	Optional - 3***	3
	Optional - 4	3
<b>Total Credit Hours: 130</b>		





# **Department of Education**

## **Programs:**

- **B.Ed (Hons 4 Years)**
- **B.Ed (2.5 Years)**
- **B.Ed (1.5 Years)**





## **Mr. Mukhtar Bashir**

Chairperson (Acting)

M.Phil Education (Iqra University Karachi, PK)

M.Ed (Allama Iqbal Open University Islamabad, PK)

### **Faculty**

- **Mr. Mukhtar Bashir**  
M.Phil in Education ( Iqra University Karachi, PK)
- **Ms. Sadia Naseer**  
M.Phil in Education (AKUED Karachi, PK)
- **Ms. Dur Jan**  
M.Phil (Iqra University Karachi, PK)
- **Ms. Shah Naz Noor**  
Ph.D in Education (Iqra University Karachi, PK) In-Progress

### **Teaching Fellows**

- **Ms. Banul**  
B.Ed (University of Turbat, PK)

# Introduction

The Department of Education emerged to offer the quality of Education in the Region of Gwadar, Balochistan. It initiated monitoring necessary changes in teaching methodology in the educational field. It promotes excellence in graduate through academic and research and creating a conducive learning environment. It also conducts, encourages and disseminates research in teaching and learning contexts. The Department aims to provide strategic directions to the educational landscape in the country with a long-term vision to develop robust networks across the region. The degree also offers contemporary coursework, exposure to the latest learning technologies, and the integration of theory and practices. It develops a passion for teaching in young minds with plenty of hands-on teaching opportunities and exposes lived experiences of a teacher both inside and outside the classrooms. The Department believes in different assessment strategies to enrich diverse leadership skills in teaching to become educational leaders and transform the education system.

Currently, the Department total number of enrollment is 107 in four batches of B.Ed(Hons) And we see a great intake of students from Gwadar and surrounding locals who take an interest in the Department due to its standard and scope. The Department of Education started its journey in 2017, and from 1st batch, 14 students passed out. The Department of Education is always pleased to provide the best of its input and create healthy outcomes as human resources.



## Department Mission

The Education Department's mission is to foster a culture and a learning community that fosters the following:

- A shared understanding and commitment to our core values among all those involved in education.
- The values, skills, knowledge, and understanding are necessary to be an effective agent of change.
- An unwavering dedication to personal and professional growth.
- Intellectual straight forwardness.
- This will be accomplished through Improving one's ability to think critically and reflectively.
- Establishing processes that are both empowering and efficient in their support inventive, creative, and inspiring teaching and learning cooperation and collaboration

## Objective of the department

The main objectives of the program are to:

- Upgrade and advance content knowledge of the practicing teachers.
- Facilitate practicing teachers to be in a competitive position for career progression.
- Enhance pedagogical skills and knowledge of the practicing teachers at elementary level.
- Equip practicing teachers with essential professional skills and competencies.

The Department Offer Following Programs:

## Bachelor in Education(Hons)

Professional education needs life time commitment and intensive training of four years' education such as the engineering, medical and law professions in keeping with the tradition of professional education, a new four-year program B.Ed. (Hons) is presented in the following pages.

In order to make teaching a profession of choice through implementing B.Ed (hons) program developed in 2006, it is imperative to revise the current curriculum to improve the teacher development program further. A teacher in the classroom needs to be competent in the content areas as well as in teaching strategies in order to ensure expected student learning outcomes. As in any profession teachers should be provided the opportunity to practice teaching through interacting with the school and community. In the clinical model of developing teachers as professionals, it is important for that prospective teacher to gain adequate insight into the ground realities of school and classrooms through their attachments in schools and communities. This rich experience of practice enables prospective teachers to bring a positive attitude in classroom teaching and understanding a plurality of cultures. Practice teaching is a major and joint responsibility of teacher training institutions, schools involving teacher educators, prospective teachers and school teachers. Inclusion of short term training with long term teaching practice will provide an opportunity to prospective teachers to extend their role in the school situation other than classroom teaching.

# Introduction

During their short term teaching practice, prospective teachers can be engaged in administrative activities under supervision such as maintenance of school records and registers, management of laboratories and library, preparation of tests and assignments, admission and selection of students and classroom management, etc. Planning and carrying out an action research activity, engaging in courses like critical thinking and reflective practices, studying contemporary issues and trends in education and involvement of prospective teachers in practical/field work would greatly reduce isolation of the teacher and will develop the habit of inquiry into practice. This breakthrough is expected to facilitate the process of multiculturalism and pluralism in our education system to bring about social transformation in the society. Hence, a blend of content and pedagogical courses has been provided in the scheme of studies – the two years of graduate courses and two years long professional courses to prepare prospective teachers as professionals in education.

## Program Learning Outcome (PLO)

- A teacher in the classroom needs to be competent in the content areas as well as in teaching strategies in order to ensure expected student learning outcomes.
- As in any profession teachers should be provided the opportunity to practice teaching through interacting with the school and community.
- In the clinical model of developing teachers as professionals, it is important for that prospective teacher to gain adequate insight into the ground realities of school and classrooms through their attachments in schools and communities.
- This rich experience of practice enables prospective teachers to bring a positive attitude in classroom teaching and understanding a plurality of cultures.

## Admission Criteria

At least 45% marks in intermediate or equivalent.

## Fees Structure

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	2000
2	Tuition Fee	7500
3	Security Money Refundable(One time fee)	2000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	500
7	Sports Fee	500
8	Transport Fee	250
9	Library Fee	250
10	Total (First Semester Fee)	13,200
	Fee per semester from 2nd to 8th	9,200



# Requirements

## Degree Requirement for the B.Ed (Hons)

For obtaining Bachelor of Education (Hons) degree, a student has to complete Minimum 135 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining B.Ed (Hons) degree offered by Department of Education are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Compulsory Courses	ENG-101	Functional English-I	3	19
	IS-103	Islamic Studies/ Ethics	2	
	ENG-102	English-II (Communication Skills)	3	
	CL-104	Computer Literacy	3	
	GM-108	General Mathematics	3	
	PS-110	Pakistan Studies	2	
	ENG-301	English – III (Technical Writing & Presentation Skills)	3	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Professional Courses	MTIS-112	Methods of Teaching Islamic Studies	3	43
	TLS-201	Teaching Literacy Skills	3	
	TURL-205	Teaching of Urdu/ Regional Languages	3	
	TGS-207	Teaching of General Science	3	
	ICT-209	Instructional and Communication Technology in Education	2	
	TENG-204	Teaching of English	3	
	TM-206	Teaching of Mathematics	3	
	TSS-210	Teaching of Social Studies	2	
	CITE-302	Contemporary Issues and Trends in Education	3	
	CEDU-308	Comparative Education	3	
	IGC-310	Introduction to Guidance and Counseling	3	
	SM-402	School Management	3	
	RME-409	Research Methods in Education	3	
	TDE-404	Test Development and Evaluation	3	
	RP-408	Research Project	3	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Foundation Courses	CD-105	Child Development	3	33
	GMT-111	General Methods of Teaching	3	
	CM-106	Classroom Management	3	
	CA-202	Classroom Assessment	3	
	SCT-208	School, community and Teacher	3	
	FEDU-303	Foundations of Education	3	
	CRD-309	Curriculum Development	3	
	EDUP-311	Educational Psychology	3	
	PEDA-405	Pedagogy – I (Specialization – I)	3	
	PEDA-407	Pedagogy – II (Specialization – II)	3	
	URD-107	Urdu / Regional Languages	3	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Content Courses	GS-109	General Science	3	24
	ACC-203	Art, Crafts and Calligraphy	3	
	CC-305	Content Course – I (Discipline – I)	3	
	CC-307	Content Course – I (Discipline – II)	3	
	CC-304	Content Course – II (Discipline – I)	3	
	CC-306	Content Course – II (Discipline – II)	3	
	CC-401	Content Course – III (Discipline – I)	3	
	CC-403	Content Course – III (Discipline – II)	3	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Teaching Practice Courses	TP-211	Teaching Practice - 1 (Short Term)	3	15
	TP-212	Teaching Practice	3	
	TP-411	Teaching Practice – 2 (Short Term)	3	
	TP-406	Teaching Practice (Long Term)	6	

# Semester Wise Study Plan

## Semester Wise Study Plan of B.Ed (Hons)

Tentative course offering plan for B.Ed (Hons) degree offered for Spring 2022 is given below in a semester wise format.

Course Code	Course Title	Pre-requisite	Credit Hours
1 <sup>st</sup> Semester (Credit Hours-17)	ENG-101 Functional English-I	None	3
	IS-103 Islamic Studies/Ethics	None	2
	CD-105 Child Development	None	3
	URD-107 Urdu/Regional languages	None	3
	GS-109 General Science	None	3
	GMT-111 General Methods of Teaching	None	3

Course Code	Course Title	Pre-requisite	Credit Hours
2 <sup>nd</sup> Semester (Credit Hours-17)	ENG-102 English-II (Communication Skills)	None	3
	CL-104 Computer Literacy	None	2
	CM-106 Class Room Management	None	3
	GM-108 General Mathematics	None	3
	PS-110 Pakistan Studies	None	2
	MTIS-112 Methods of Teaching Islamic Studies	None	3

Course Code	Course Title	Pre-requisite	Credit Hours
3 <sup>rd</sup> Semester (Credit Hours-17)	TLS-201 Teaching Literacy Skills	None	3
	ACC-203 Art, Crafts and Calligraphy	None	2
	TURL-205 Teaching of Urdu/Regional languages	None	3
	TGS-207 Teaching of General Science	None	3
	ICT-209 Instructional and Communication Technology in Education	None	2
	TP-211 Teaching Practice (Short Term)	None	3



# Semester Wise Study Plan

	Course Code	Course Title	Pre-requisite	Credit Hours
4 <sup>th</sup> Semester (Credit Hours-17)	CA-202	Class Room Assessment	None	3
	TENG-204	Teaching of English	None	3
	TM-206	Teaching of Mathematics	None	3
	SCT-208	School, Community & Teacher	None	3
	TSS-210	Teaching of Social Studies	None	2
	TP-212	Teaching Practice	None	3

	Course Code	Course Title	Pre-requisite	Credit Hours
5 <sup>th</sup> Semester (Credit Hours-18)	ENG-301	English-III (Technical Writing & Presentation Skills)	None	3
	FEDU-303	Foundation of Education	None	3
	CC-305	Contented Course-I (Discipline-I)	None	3
	CC-307	Content Course-I (Discipline-II)	None	3
	CRD-309	Curriculum Development	None	3
	EDUP-311	Educational Psychology	None	3

	Course Code	Course Title	Pre-requisite	Credit Hours
6 <sup>th</sup> Semester (Credit Hours-15)	CITE-302	Contemporary issues & Trends in Education	None	3
	CC-304	Content Course-II (Discipline-I)	None	3
	CC-306	Content Course-II (Discipline-II)	None	3
	CEDU-308	Comparative Education	None	3
	IGC-310	Introduction to Guidance and Counselling	None	3

# Semester Wise Study Plan

Course Code		Course Title	Pre-requisite	Credit Hours
7 <sup>th</sup> Semester (Credit Hours-18)	CC-401	Content Course-III (Discipline-I)	None	3
	CC-403	Content Course-III (Discipline-II)	None	3
	PEDA-405	Pedagogy-I (Specialization-I)	None	3
	PEDA-407	Pedagogy-II (Specialization-II)	None	3
	RME-409	Research Methods in Education	None	3
	TP-411	Teaching Practice (Short Term)	None	3

Course Code		Course Title	Pre-requisite	Credit Hours
8 <sup>th</sup> Semester (Credit Hours-15)	SM-402	School Management	None	3
	TDE-404	Test Development and Evaluation	None	3
	TP-406	Teaching Practice (Long Term)	None	6
	RP-408	Research Project	None	3



# Courses Description

## **CD-105 Child Development**

The primary focus of this course is learning about children in order to become an effective teacher. It provides Student Teachers with an overview of child development and growth as a holistic process. The latest research and thinking about the conditions that affect children's learning and development will be addressed across developmental domains and stages of development. Development of language and cognition as well as emotional, social, and physical characteristics of children will be explored. Student Teachers will form their own child development theories. Implications of child development theory for schools, teachers, and society will be considered.

## **GMT-111 General Methods of Teaching**

This course is an introduction to teaching methods used in primary schools. Because you have been a primary school student, you will recognize some of these methods. However, you know them from a student's perspective rather than from a teacher's perspective. Because teaching and learning interact, a course about teaching must also be about learning.

## **ENG-101 Functional English**

The purpose of this course is to develop the English-language proficiency of prospective elementary school teachers and to help them become confident in reading, writing, speaking, and listening to the English language. Instead of teaching grammar in isolation and only at sentence level, this course is based on developing the language abilities of Student Teachers through an integrated approach that provides opportunities to develop their listening, speaking, reading, and writing skills. With a focus on social interaction, the course draws specific attention to the accurate use of structures, improvement of pronunciation, and development of active vocabulary in descriptive, narrative, and instructional texts.

## **GS-109 General Science**

This course will refresh and strengthen Student Teachers' subject-matter knowledge. It lays a foundation for the pedagogical content knowledge also required to effectively teach general science in primary school. The course covers core concepts in physical science, life science, and earth science. Also covered are the teaching strategies and instructional approaches that best support the development of conceptual understanding of science.

## **GM-108 General Mathematics**

This course is designed to prepare Student Teachers for teaching mathematics in elementary grades. It provides opportunities for Student Teachers to strengthen their mathematical knowledge and skills and to gain confidence in their understanding of mathematics. An important outcome of this course is for Student Teachers to be able to teach mathematics successfully in the primary, elementary, and middle grades.

## **CM-106 Classroom Management**

In this course, prospective teachers will be encouraged to explore their own beliefs about teaching and learning to arrive at a philosophy of classroom management that places learning as an ultimate goal. Prospective teachers will be given the chance to explore curricular concerns of what to teach and how to teach it and to view lesson planning as the consequence of these decisions. They will also study research and best practices on differentiation of instruction, classroom structures, routines, procedures, and community building.

## **CL-104 Computer Literacy**

Information and Communications Technology (ICT) is significantly enhancing and altering human activity and enabling us to live, work, and think in ways that most of us never thought possible. Prospective teachers will actively explore the fundamental concepts, knowledge, skills, and attitudes for applying technology in educational settings. They will also learn to develop skills like collaboration, higher-order thinking, problem solving, and self-direction through effective use of technology tools and resources, thus enabling them to be lifelong learners in the twenty-first century.

## **ENG-102 Communication Skills**

The course comprises five units that focus on developing effective communication strategies, making oral presentations, understanding intonation patterns and their role in determining the meaning of a message or text, and how to present information in speech and writing. The first five weeks are devoted to developing the Student Teachers' language confidence and interpersonal skills. This is followed by task-based projects that incorporate all four language skills in order to develop the Student Teachers' proficiency in English language.

## **ACC-203 Art, Crafts and Calligraphy**

The Art, Crafts, and Calligraphy course will help prepare Student Teachers to teach these subjects in the elementary grades. It provides Student Teachers with an opportunity to develop their knowledge and understanding of art, crafts, and calligraphy (with a focus on Pakistani artists, calligraphers, and craftsmen and women) and to practice making their own works using a variety of techniques.

## **ICT-209 Instructional and Communication Technologies in Education**

The focus of this course is to provide you with the knowledge and skills regarding how ICTs can be used to engage students in the learning process, improve understanding of content as well as instructional and assessment practices, and enhance communication and collaboration in the classroom. By 'student', we mean here children in primary or lower secondary grades.

# Courses Description

## **TGS-207 Teaching of General Science**

This course will strengthen prospective Student Teachers' subject-matter knowledge. It provides further opportunity to deepen the pedagogical science content knowledge required to effectively teach general science in elementary school. The course covers core concepts in physical science, life science, and earth science. It also covers teaching strategies and instructional approaches that best support the development of a conceptual understanding of science.

## **TLS-201 Teaching Literacy Skills**

The purpose of this course is to help Student Teachers understand the theory and practice of teaching early reading and writing. Reading and writing are seen as related, integrated meaning-making processes that are reciprocal with the oral language processes of listening and speaking.

The course will provide Student Teachers with an understanding of what it means to be a reader and the significance of early reading development, which is the foundation for the continuation of literacy development.

## **CA-202 Classroom Assessment**

Classroom assessment is the process of collecting and interpreting information about learning and teaching as it occurs in a classroom for the purpose of making decisions that improve opportunities for learning.

## **TM-206 Teaching Of Mathematics**

This course will equip Student Teachers with the knowledge and skills to teach maths in elementary grades. They will become familiar with the mathematics content in Pakistan's National Curriculum and expected student learning outcomes. Student Teachers will learn to use a variety of instructional methods that promote active learning of maths, including making and using teaching and learning materials. They will plan mathematics lessons and activities, and engage in practice teaching of maths.

## **SCT-208 School, Community, and Teacher**

The purpose of this course is to provide Student Teachers with a strong foundation for understanding the relationship between and among teachers, the school, and the families and community that support the school. Basic conceptualizations of educational institutions and the role of the teacher in relating to these institutions will be considered. The course will explore the social context of schooling and examine how the work of teachers is nested within school and community.

## **TENG-204 Teaching of English**

The course focuses on ways to teach young learners the four language skills—listening, reading, speaking, and writing—to enable them to reach a basic level of communicative competence in both spoken and written English.

## **The Developmental Practicum**

This course includes two important parts:

- A school placement in an elementary school
- A seminar that meets regularly

**School placement:** Opportunities to work with children at two different grade levels, an upper and lower elementary school classroom, are provided.

As a Student Teacher, you will work with children from a variety of backgrounds and with different capabilities.

**Seminar:** The seminar that accompanies your fieldwork will be facilitated by your College/ University Practicum Supervisor and is designed to link pre-service program content to classroom practice. You will have an opportunity to clarify and revise your teaching goals and beliefs about a wide range of educational issues. The primary focus of this seminar is inducting Student Teachers into professional practice.

## **TSS-210 Teaching Social Studies**

This course will help you, as a Student Teacher, to reflect on the purpose of teaching social studies and to shape your approach to teaching the subject. It will prepare you to teach the knowledge, skills, values, and attitudes essential for democratic citizenship. As a social studies teacher, you will have the opportunity to encourage informed and responsible civic action.

## **CRD-309 Curriculum Development**

This course gives Student Teachers the opportunity to develop an in-depth understanding of the central idea of curriculum. Furthermore, it will enable Student Teachers to plan and develop curricula to meet the needs of their students.

## **EDUP-311 Educational Psychology**

This course is an introduction to educational psychology that covers the basic concepts, theories, and principles of human development, learning, motivation, individual differences, intelligence, and assessment. Additionally, it relates how these concepts are applied to classroom teaching. In an educational setting, it is essential for teachers to know about human development and how students learn. Students learn according to their own pace and ability, so concepts about individual differences and different types of learners are also covered.

## **FEDU-303 Foundations of Education**

The purpose of this course is to help Student Teachers recognize the worth of the foundations of education, and examine their role and significance in the whole process of education in Pakistan. Student Teachers will develop a comprehensive understanding of the terms foundations and education in light of the various ideological, philosophical, psychological, sociological, and historical perspectives that



# Courses Description

have influenced education. Foundations are essentially basic ways of thinking about schooling and the formal processes of education. The course will inform them about the influence of social forces, such as politics, social structure, culture, history, and economics, on the selection of content, the methods of teaching, and the aims of education.

## **\IGC-310 Introduction to Guidance and Counselling**

This course has been designed to introduce the concept, scope, and theories that govern the process of guidance and counselling in education. It will enable Student Teachers to identify areas of guidance and counselling at the elementary level. The course will include both theoretical knowledge of guidance and counselling and the development of Student Teachers' counselling skills. It will strengthen their ability to exercise active listening skills, reflect on students' problems, and help them choose potential solutions to their problems.

## **CEDU-308 Comparative Education**

The Comparative Education course is divided into five units. The course provides an overview of methods, major concepts, and current trends in the field. Notions of comparative education will be introduced in Unit 1, focusing on purposes, methods, and approaches. Further, the scope of comparative education will be discussed, together with determinants of a national education system, in Unit 2. The remaining units cover topics such as a comparative view of education in Pakistan and comparative education in selected developing as well as developed countries.

## **CITE-302 Contemporary Issues and Trends in Education**

The Contemporary Issues and Trends in Education course will assist Student Teachers in appreciating the strengths, challenges, innovations, and reforms in education at both national and international levels. They will be empowered not only to adopt viable strategies and approaches in their professional practice but also to implement prescribed educational policies and programmes.



## Alumnus Message



### Waleed Wafa (Batch-2018)

Hi, I am Waleed Wafa, alumnus of Gwadar University from Education department batch 2018 formerly known as University of Turbat Gwadar Campus. Now I am doing my M.phil in educational leadership in management from Iqra University of Karachi. I spent my golden 4 years of life in the domain of Knowledge, Wisdom, Service. I am honoured to be a part of University of Gwadar. I had learned many great ideas from my scholars and now I am able to communicate the scholarly world because of my teachers. University of Gwadar played a key role in transforming me into a professional realm of knowledge to face the competitive world and has given me memories to cherish forever. I believe in one thing: a true seeker's light is more magnificent than sunset or sunlight. So, my humble request to all the seekers of knowledge and learners of Gwadar & Makuran is to come and join University of Gwadar and be the part of change. Thank you.

### IGC-310 Introduction to Guidance and Counselling

This course has been designed to introduce the concept, scope, and theories that govern the process of guidance and counselling in education. It will enable Student Teachers to identify areas of guidance and counselling at the elementary level. Through the knowledge and skills acquired from this course, they will be well equipped to explore the talents and potential of their students, while preparing them for life in the 21st century. The course will include both theoretical knowledge of guidance and counselling and the development of Student Teachers' counselling skills.

### Teaching Social Studies II

Social studies is concerned with human beings and their relation to society, and a social studies curriculum should address the totality of human experience over time and space. This course will mainly focus on the teaching of history and geography. The purpose of this course will be to integrate the elements and concepts of history and geography, such as change, continuity, and chronology.

### Teaching English II

The basic aim of the course is to enable Student Teachers to master the pedagogies related to teaching and assessment in the English language. Student Teachers will also be able to integrate the practical activities meant for the development of the four skills with the pedagogies. They will also gain practical experience in the teaching of grammatical as well as lexical aspects of the English language. This course aims to enable Student Teachers to put their knowledge of different English language teaching approaches learned in the previous course into practice most suitably according to their own specific needs.

### PEDA-407 Teaching of Science - III

Science education needs reform in the philosophical, instructional, and pedagogical dimensions of current practice. Learning does not occur by passive absorption of scientific facts; rather, it involves learners in constructing their own meaning and assimilating new information to develop new understandings. In Science III, the overall thrust of the course is on the development of scientific knowledge, skills, and attitudes in Student Teachers in the areas of life science, physical science, and Earth and space science. Therefore, this course emphasizes developing inquiry, problem-solving, and decision-making abilities in Student Teachers so they may maintain a sense of wonder and curiosity about the world around them.

### RME-409 Research Methods in Education

The course Research Methods in Education is designed to orient Student Teachers to the concept and methods of research in education. In particular, the course focuses on action research, and it aims to equip Student Teachers with the necessary skills to plan and conduct action research in an educational setting.

### PEDA-405 Teaching of Mathematics

In this course we are more focused on the transmission of knowledge by engaging students in memorizing mathematical rules and formulae, rather than on engaging them in constructing mathematical knowledge and understanding mathematical

# Courses Description

concepts. Mathematics learning can inculcate problem-solving, logical-thinking, and reasoning skills in students only when they are taught in such a way that they learn conceptually instead of by drill and practice.

## **TDE-404 Test Development and Evaluation**

The Test Development and Evaluation course will focus on knowledge, understanding, and skills in the development of valid, reliable, and adequate tests and evaluation procedures as a means to improve learning. Major topics covered include theories of test development, characteristics of a good test, steps in test construction, alternative assessment strategies, and evaluation and accountability based on value addition.

## **The Developmental Practicum**

Opportunities to work with children at two different grade levels, an upper and lower elementary school classroom, are provided. As a Student Teacher, you will work with children from a variety of backgrounds and with different capabilities. Initially you will conduct formal observations and complete a variety of school-based assignments, but you are expected to gradually take a more active role, with increased responsibilities in each classroom.

## **RP-408 Research Project**

The Research Projects in Education course is a practical course in which Student Teachers will be involved in the action research process. The course will enable them to plan, act, observe, and reflect during action research. As the action research process entails an ongoing analysis of data, Student Teachers will be engaged in the same process for their individual projects and will receive guidance from their supervisors. Student Teachers will disseminate their findings in the form of reports.

## **SM-402 School Management**

School today is experiencing a paradigm shift in conceptions and operations related to school management. Systems thinking has become the major paradigm for school improvement efforts. The main goal of this course is to develop the capacity of Student Teachers to understand school as a system and to view school management through a systems approach. This will enable them to identify and examine their role in the school system and its significance in improving the learning outcomes of students.

## **Alumna Message**



## **Shaista Abdul Samad (Batch-2018)**

Hi! I am Shaista Abdul Samad remained a student of Turbat University Gwadar campus recently known as Gwadar University, from education department Batch 2018-2021. I spent my precious four years of bachelor's degree being part of University with acquiring knowledge, wisdom and skills which I consider the sweat fruits of my patience and hardwork of my teachers. The university not only nourished my inner talents but also prepared me to fight against the challenges of real world. Now I am working as an internee in social welfare department literacy office on behalf of Balochistan women internship programme. I believe it may take some time to achieve your goals, but eventually you will. So, be patient and work hard for your dreams, and they will come to you. Therefore I invite the people of Makran specially the students of Gwadar to become the part of Gwadar University to make your dreams come true.

Thank you.





# Department of English

## Programs:

- BS English (4 Years)



# Requirements

## Degree Requirement for the BS English

For obtaining Bachelor of Science English degree, a student has to complete Minimum 136 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS English degree offered by Department of English are given below;

Course Category	Course Title	Credit hours	Total Credits
Compulsory Courses	Study Skills	3	28
	Paistan Studies	2	
	Islamic Studeies	2	
	Human Rights & Citizenship	3	
	Introduction to environmental studies	3	
	English -I Reading and Writing Skills	3	
	English-II Composition Writing	3	
	Introuction to Information & Computer Technology (ICT)	2+1	
	English-III Communication and Presentation Skills	3	
	English -IV Academic Reading & Writing	3	
Course Category	Course Title	Credit hours	Total Credits
University Elective Courses	Introduction to Geography	3	18
	Introduction to International Relations	3	
	Islamic History & Culture	3	
	Global Poetry	3	
	Introduction to Philosophy	3	
	Mass Communication	3	
	Psychology	3	
	Sociology	3	
	Political Science	3	
	Education History	3	
	Social Work	3	
	Human Rights	3	
	Gender Studies	3	

# Requirements

Course Category	Course Title	Credit hours	Total Credits
University Elective Courses	Anthropology	3	
	Entrepreneurship	3	
	Intoduction to Statistics	3	
	Health & Physical Education	3	
	Elementary Mathematics & Stats	3	
Course Category	Course Title	Credit hours	Total Credits
Foundation Courses	Introduction Literary Studies	3	12
	Introduction to Language Studies	3	
	Introduction to Phonetics & Phonology	3	
	Literary Forms and Movements	3	
Course Category	Course Title	Credit hours	Total Credits
Major Courses	Short Fictional Narratives	3	66
	Introduction to Morphology	3	
	Classical and Renaissance Drama	3	
	Classical Poetry	3	
	Semantics	3	
	Rise of the Novel (18th to 19th Century)	3	
	Romantics and Victorian Poetry	3	
	Foundations of Literary Theory & Criticism	3	
	Sociolinguistics	3	
	Popular Fiction	3	
	Modern Poetry	3	
	Modern Drama	3	
	Modern Novel	3	
	Grammar & Syntax	3	
	Discourse Studies	3	

# Requirements

Course Category	Course Title	Credit hours	Total Credits
Major Courses	Creative Nonfiction	3	
	Research Method and Term Paper Writing	3	
	Introduction to Applied Linguistics	3	
	Literary Theory and Practice	3	
	Introduction to Translation Studies	3	
	Introduction to Women's Writing	3	
	World Englishes	3	
Course Category	Course Title	Credit hours	Total Credits
Elective Courses	Introduction to Stylistics	3	12
	Pakistani Literature in English	3	
	Postcolonial Literature	3	
	American Literature	3	
	African Literature	3	
	Postcolonial women's Writing	3	
	Postmodern Fiction	3	
	Islam and Western Literature	3	
	Pakistani Folk Literature	3	
	Emerging Trends in Sociolinguistics	3	
	ESP	3	
	Introduction to Critical Pedagogy	3	
	Pakistani English	3	
	Second Language acquisition	3	
	Introduction to Syntax	3	
	Introduction to Forensic Linguistics	3	
	Clinical Linguistics	3	
	Language and education	3	
	Language and gender	3	
	Corpus Linguistics	3	



# Semester Wise Study Plan

## FIRST SEMESTER

Course Code	Course Title	Course Type	Credit Hours
GC101	Study Skills	Compulsory General	3
GC102	Introduction to Geography	General	3
GC103	Pakistan Studies	Compulsory	2
ELL101	English I: Reading and Writing Skills	Foundational	3
ELL102	Introduction to Literary Studies	Subject-specific Foundational	3
ELL103	Introduction to Language Studies	Subject-specific Foundational	3
<b>Total</b>			<b>17</b>

## SECOND SEMESTER

Course Code	Course Title	Course Type	Credit Hours
GC104	Islamic Studies	Compulsory	2
GC105	Elementary Mathematics & Stats	General	3
GC106	Introduction to Philosophy	General	3
ELL104	English II: Composition Writing	Foundational	3
ELL105	Introduction to Phonetics & Phonology	Subject-specific Foundational	3
ELL106	Literary Forms and Movements	Subject-specific Foundational	3
<b>Total</b>			<b>17</b>

## THIRD SEMESTER

Course Code	Course Title	Course Type	Credit Hours
GC201	Introduction to Information & Computer Technology Skill	Foundational	2+1
GC202	Islamic History & Culture	General	3
GC203	Global Poetry	General	3
ELL201	English III: Communication and Presentation Skills	Foundational	3
ELL202	Short Fictional Narratives	Subject-specific Foundational	3
ELL203	Introduction to Morphology	Subject-specific Foundational	3
<b>Total</b>			<b>18</b>

# Semester Wise Study Plan

## FOURTH SEMESTER

Course Code	Course Title	Course Type	Credit Hours
GC204	Human Rights & Citizenship	Compulsory General	3
ELL204	English IV: Academic Reading & Writing	Foundational	3
ELL205	Classical and Renaissance Drama	Subject-specific Foundational	3
ELL206	Classical Poetry	Subject-specific Foundational	3
ELL207	Semantics	Subject-specific Foundational	3
ELL208	Rise of the Novel (18 <sup>th</sup> to 19 <sup>th</sup> century)	Subject-specific Foundational	3
<b>Total</b>			<b>18</b>

## FIFTH SEMESTER

Course Code	Course Title	Course Type	Credit Hours
GC301	Introduction to International Relations	General	3
GC302	Introduction to Environmental Studies	Compulsory General	3
ELL301	Romantic and Victorian Poetry	Subject-specific Foundational	3
ELL302	Foundations of Literary Theory & Criticism	Subject-specific Foundational	3
ELL303	Sociolinguistics	Subject-specific Foundational	3
ELL304	Popular Fiction	Subject-specific Foundational	3
<b>Total</b>			<b>18</b>

## SIXTH SEMESTER

Course Code	Course Title	Course Type	Credit Hours
ELL305	Modern Poetry	Subject-specific	2+1
ELL306	Modern Drama	Subject-specific	3
ELL307	Modern Novel	Subject-specific	3
ELL308	Grammar & Syntax	Subject-specific	3
ELL309	Discourse Studies	Subject-specific	3
ELL310	Creative Nonfiction	Subject-specific	3
<b>Total</b>			<b>18</b>

# Semester Wise Study Plan

## SEVENTH SEMESTER

Course Code	Course Title	Course Type	Credit Hours
ELL401	Research Methods and Term Paper Writing	Subject-specific	3
ELL402	Introduction to Applied Linguistics	Subject-specific	3
ELL403	Introduction to Stylistics	Subject-specific	2
ELL404	Literary Theory and Practice	Subject-specific	3
ELL405	Pakistani Literature in English	Subject-specific	3
<b>Total</b>			<b>15</b>

## EIGHTH SEMESTER

Course Code	Course Title	Course Type	Credit Hours
ELL406	Postcolonial Literature	Subject-specific	3
ELL407	American Literature	Subject-specific	3
ELL408	Introduction to Translation Studies	Subject-specific	2
ELL409	Introduction to Women's Writing	Subject-specific	3
ELL410	World Englishes	Subject-specific	3
<b>Total</b>			<b>15</b>

1. The given courses in the seventh and eighth semesters may be replaced with courses from the list of electives given , provided the required expertise is available in the department. However, the ratio of the literature and linguistics courses should remain the same as the aim of undergrad degree is to impart general education in humanities.

2. The choice of general courses may also be determined by the availability of expertise in the institution.



# Department of Management Sciences

## Programs:

- Bachelor of Business Administration (BBA 4 Years)
- Diploma in Hotel Management (1 Year)
- Diploma in Maritime & Port Management (1 Year)





## Mr. Fida Hussain

Chairperson (Acting)

BS Management Science (UoT Turbat, PK)

MBA (Bahria University Karachi, PK)

### Faculty

- **Mr. Saghir Naseem**  
MS in Management Science ( ZBIST Karachi, PK)
- **Mr. Irshad Ahmed**  
Ph.D in Management Science ( IoBM Karachi, PK) In-Progress
- **Mr. Ubaid Ali**  
MS in Management Sceince (MAJU Karachi, PK) In-Progress

### Teaching Fellows

- **Mr. Zulfuqar**  
MBA (University of Turbat, PK)
- **Mr. Mutasam Iqbal**  
BBA (University of Management & Technolgy Lahore, PK)
-

# Introduction

The department of Management Sciences was established with the inception of the University of Turbat, Gwadar Campus. The academic activities were started from 16th January, 2017 with four year BBA program.

The department offers specialization in Finance, Human Resource Management, and Marketing with its specialist and qualified faculty members who have completed their education from top universities of Pakistan and foreign countries. The department of management sciences not only relies on academic activities but also guides and assists the student in organizing different events and workshops like business gala and taking participation in entrepreneurship challenges for gaining practical experience of doing their own business before completing their studies. The students are also sent to different organizations, banks for completing their internship. The main objective of this department is to produce entrepreneurs, skilled human resources in the field of Management, Marketing, Finance, Human Resource Management who could work for the betterment of the society, where they live and to prepare themselves to meet the future opportunities and challenges like CPEC.

## Department Mission

The mission of the Department of Management Science is to provide an environment for creating innovative and excellence human resource by developing their entrepreneurial skills with the adaptation of the latest technological methodology of teaching, learning and research.

## Objective of the department

- The department of management sciences focuses on producing skilled human resources in the field of management sciences in order to prepare them for the future opportunities and make them suitable for market needs.
- To provide high quality academic support to strengthen the management science and related business areas in the region.
- To give a brief career counselling to the students and show them the right path toward best future.
- Establishing an incubation centre for young entrepreneurs with the collaboration and support from fund raising agencies.

## Bachelor of Business Administration

BBA program is comprised of eight semesters. Students take a total of 45 courses during the degree, in addition to a six-week internship. There are 40 core courses and four specialised courses among the offered courses. The student's academic progress for each course is assessed through two exams of 2 hours in the semester and a 3 hours comprehensive exam at the end of the semester.

## Program Learning Outcomes (PLO's)

- Understanding of Basic Finance, Banking, Financial problems, and their solution and Management Concepts.
- Improving the Analytical, theoretical and communication Skills of Students to evaluate the Business Situation and Financial Health of a Firm.
- Increase depth and breadth of understanding in the chosen area of specialization in Finance and HRM.
- Enable students to rise to the challenges and find opportunities in the given area of specialization.
- Demonstrate and improve effective written & oral communication skills.
- Be able to effectively promote organization's products and services to the final consumers.
- Be able to deal with contemporary issues in the different working environments.
- Be able to keep abreast with the latest information technology used in various industries.
- To work with a collaborative and creative approach in task-oriented goals.
- To develop their creative, innovative, and management skills.
- To produce skilled graduates having knowledge of business.
- To develop creative, innovative and management skills in students and prepare them for future opportunities and challenges.
- To arouse exploration in the mind of the students, to know trends and issues of business as a manager.
- To keep students aware about business norms, ethical and social values.
- Developing entrepreneurial skills in students.
- To equip the students with problem solving skills by identifying and solving business issues.
- Preparation of the students for either advanced studies in the field of business, management or other related programs or career in industry.

# Requirements

## Admission Criteria

Students with F.A/F.Sc or Equivalent degree with at least 45% marks is eligible to apply.

## Fee Structure

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	2000
2	Tuition Fee	7,500
3	Security Money (Refundable (Onetime fee)	2,000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	500
7	Sports Fee	250
8	Transport Fee	250
9	Library Fee	250
10	Total (First Semester Fee)	13, 200
	Fee per semester from 2 <sup>nd</sup> to 8 <sup>th</sup>	9,200

## Degree Requirement for the Business Administration

For obtaining Bachelor of Business Administration, a student has to complete Minimum 135 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BBA degree offered by Department of Management Sciences are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Compulsory Courses	ENG-301	Functional English	3	21
	BC-301	Business Communication (written)	3	
	BS-302	Business Communication (oral)	3	
	PIS-301	Pakistan & Islamic Studies	3	
	MAT-301	Business Mathematics	3	
	ECO-401	Macro Economics	3	
General Courses	BS-302	Business Statistics	3	6
	SOC-302	Introduction to Sociology	3	
	CSRB-401	Corporate Social Responsibility and Business Ethics	3	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Foundation Courses	ITB-301	Introduction to business	3	33
	ACT-301	Introduction to Accounting	3	
	MKT-301	Principles of Marketing	3	
	BSF-301	Business Finance	3	
	MGT-301	Principles of Management	3	
	ICT-301	Introduction to Computer	3	
	HRM-302	Human Resource Management	3	
	LAW-301	Business & Corporate Law	3	
	BRM-501	Business Research Methods	3	
	ECO-301	Micro Economics	3	
	MGT-303	Self-Management Skills	3	
	ACC-302	Financial Accounting	3	
	FIN-401	Financial Management	3	
	MKT-401	Marketing management	3	
Core Courses	MGT-502	Production & Operations Management	3	63
	MIS-401	Management Information System	3	
	ECO-403	Economies of Developing Countries	3	
	MGT-401	Total Quality Management	3	
	IB-402	International Business	3	
	MGT-605	Strategic Management	3	
	ENT-501	Entrepreneurship	3	
	MKT-501	Consumer Behavior	3	
	ORB-301	Organizational Behavior	3	
	BAN-301	Money & Banking	3	
	BIN-501	Islamic Banking & Finance	3	
	ACT-401	Cost Accounting	3	



# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Core Courses	ACT-502	Auditing & Taxations	3	63
	MIS-402	Electronic Commerce	3	
	ACT-501	Managerial Accounting	3	
	STI-401	Statistical Inferential	3	
	FIN-501	Financial Markets & Institutions	3	
	BRM-601	Research Project/Internship	3	
	Marketing			
	MKT-601	Supply chain management	3	
	MKT-602	Advertising and Promotional strategies	3	
	MKT-603	Brand Management	3	
Elective Courses	MKT-604	Sales Management	3	12
	MKT-605	International Marketing	3	
	Fianance			
	FIN-601	International Financial Management	3	
	FIN-602	Investment & Portfolio Management	3	
	FIN-603	Financial Statement Analysis	3	
	FIN-604	Treasury & Fund Management	3	
	FIN-605	Project financing & Evaluation	3	
	Human Resource Management			
	HRM-601	Training & Development	3	
	HRM-602	Change Management	3	
	HRM-603	Industrial Relation and Labor Law	3	
	HRM-604	Conflict management	3	
	HRM-605	Organizational Development	3	
	HRM-606	Performance Management System	3	

# Semester Wise Study Plan

## Semester Wise Study Plan of BBA

Tentative course offering plan for BBA degree offered for Spring 2022 is given below in a semester wise format.

Course Code		Course Title	Pre-requisite	Credit Hours
1 <sup>st</sup> Semester (Credit Hours-18)	ENG-301	Functional English	None	3
	ICT-301	Introduction to Computer	None	3
	MAT-301	Business Mathematics	None	3
	ACT-301	Introduction to Accounting	None	3
	ITB-301	Introduction to Business	None	3
	MGT-301	Principle of Management	None	3

Course Code		Course Title	Pre-requisite	Credit Hours
2 <sup>nd</sup> Semester (Credit Hours-18)	PIS-S301	Pak & Islamic Studies	None	3
	ACC-302	Financial Accounting	ACT-301	3
	MGT-303	Self-Management Skills	None	3
	ECO-301	Microeconomics	None	3
	BC-301	Business Communication (Written)	None	3
	BS-302	Business Statistics	None	3

Course Code		Course Title	Pre-requisite	Credit Hours
3rd Semester (Credit Hours-18)	ECO-401	Macroeconomics	ECO-301	3
	BS-302	Business Communication (Oral)	None	3
	SOC-302	Introduction to Sociology	None	3
	MKT-301	Principle of Marketing	None	3
	BSF-301	Business Finance	None	3
	STI-401	Statistical Inference	BS-302	3

# Semester Wise Study Plan

Course Code		Course Title	Pre-requisite	Credit Hours
4 <sup>th</sup> Semester (Credit Hours-18)	ACT-401	Cost Accounting	ACT-301	3
	BAN-301	Money and Banking	None	3
	LAW-301	Business & Corporate Law	None	3
	FIN-401	Financial Management	BSF-301	3
	MKT-401	Marketing Management	MKT-301	3
	ORB-301	Organizational Behavior	None	3

Course Code	Course Title	Pre-requisite	Credit Hours	
5 <sup>th</sup> Semester (Credit Hours-18)	BRM-501	Business Research Methods	None	3
	HRM-302	Human Resource	MGT-301	3
	ACT-501	Managerial Accounting	ACT-401	3
	ECO-403	Economies of Developing Countries	ECO-401	3
	CSRB-401	Corporate Social	None	3
	MIS-401	Management Information System	ICT-301	3

Course Code		Course Title	Pre-requisite	Credit Hours
6 <sup>th</sup> Semester (Credit Hours-15)	MGT-401	Total Quality Management	None	3
	ACT-502	Auditing and Taxation	None	3
	FIN-501	Financial Markets and Institutions	FIN-401	3
	MKT-501	Consumer Behavior	MKT-301	3
	IB-402	International Business	None	3

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
7 <sup>th</sup> Semester (Credit Hours-15)	MIS-402	Electronic Commerce	3
	ENT-501	Entrepreneurship	3
	MGT-502	Production and Operation Management	3
		Elective I	3
		Elective II	3

Course Code	Course Title	Pre-requisite	Credit Hours
8 <sup>th</sup> Semester (Credit Hours-15)	MGT-605	Strategic Management	3
	BIN-501	Islamic Banking and Finance	3
	BRM-601	Research Project/ Internship	3
		Elective III	3
		Elective IV	3





# Course Description

## ENG-301 Functional English

The main objective of this course is to give students a better knowledge of English grammar, language, and composition, enabling them to write, speak, listen and read effectively.

## ICT-301 Introduction to Computer

The course covers the introduction, concept of ICT- Information and Communication Technologies, computer hardware, software, operating systems, and MS- Office productivity tools. The main objective of this course is to teach computing concepts to students as end-users to get hands-on experience on computers for day-to-day applications. The primary approach is to strike a proper balance between the WHY and the HOW of the computer.

## MAT-301 Business Mathematics

The main objectives of the course are to enhance students' competency in application of mathematics to solve business management problems and to improve their level of quantitative sophistication for further advanced business analysis.

## ACT-301 Introduction to Accounting

Accounting has often been called the language of business but now it has become everyone's need. Accounting is a language that communicates economic information to people who have an interest in an organization—managers, shareholders and potential investors, employees, creditors and the governments. Managers require information that will assist them in their decision-making and control activities, for example, information is needed on the estimated selling prices, costs, demand, competitive position and profitability of various products that are made by the organization.

## ITB-301 Introduction to Business

The course aims to provide students with the basic knowledge of business and business functions of human resource management, accounting and finance, and marketing. It enables them to discuss issues of diversity in business and understand methods of financing business ventures.

## MGT-301 Principles of Management

The course intends to acquaint the students with the basic concepts of the management. The main focus remains upon the management process, with elementary treatment of the course contents.

## ACC-302 Financial Accounting

The primary aim of Financial Accounting is to provide students with an introduction to the process and function of financial reporting. Whilst a large proportion of the course is aimed at understanding accounting as a process, taking a preparers perspective, we will also seek to develop an understanding of the importance of the role of accounting in today's society.

## PIS-301 Pakistan Studies

This course provides in-depth detail knowledge related to background and current scenario of Pakistan. Students will learn about the events that created the sense of awareness among the Muslims of India. At the end of the course students will be able to relate all major development for the creation of Pakistan and its constitutional developments in the relationship with neighbor and other develop countries

## MGT-303 Self Management Skills

It is a course designed in such a way that after completing this course a student will be able to, practice the art of positive thinking. Display problem-solving and decision-making skills at a personal level. Learn the art of effective negotiation. Understand the art of persuasion. Gain awareness of the leadership skills required for embarking on a managerial career. Despite promises of "fast and easy" results from professional marketers, real personal growth is neither fast nor easy. The truth is that hard work, courage, and self-discipline are required to achieve meaningful results—results that are not attained by those who cling to the fantasy of achievement without effort. This course reveals the unvarnished truth about what it takes to consciously grow as a successful human being. The course is fully equipped with practical, insightful methods for improving health, career, finances, and more. management problems and to improve their level of quantitative sophistication for further advanced business analysis.

## FIN-604 Treasury & Fund Management

The treasury in a financial institution or a company is responsible for the availability and economic management of funds. This course aims to provide students with an understanding of treasury functions in a multi-service Financial Institution, the practice, and procedures of various financial markets. It also aims to give students an understanding of the multiple types of risk and controls required for a bank that is active in trading treasury products and providing tailored treasury products for non-bank customers.

## BC-301 Business Communication (Written)

This course is designed to enhance the written and oral communication skills of the students. It provides different



# Course Description

techniques of communicating effectively by giving knowledge of Seven C's, drafting internal and external messages, Presentations. It examines the theoretical and practical concepts of public speaking. The course will also help you prepare formal and informal reports.

## **BS-302 Business Statistics**

The course is designed to give non-intimidating presentation of statistical concepts, principals and techniques most useful for students in business management. The main objectives of the course are to enhance students' competency in application of statistics to solve business management problems and to improve their level of quantitative sophistication for further advanced business analysis.

## **ECO-301 Microeconomics**

The course attempts to demonstrate the relevance and usefulness of economic analysis to real world business situations. Emphasis is placed on optimal decisions making within the firm and the strategic relationship with other businesses.

## **BS-302 ORAL Communication**

In this rapidly changing world communication has become very vital and important. Everyone has to contact each other for many reasons and without communication either for ourselves or on the behalf of the organization we cannot make progress in any sphere of life. "The persons we seek must have strong oral and written communication skills". From Chief Financial Officer to Product Manager, from Senior Economist to Personnel Analyst, from Senior Sales Representative to Petroleum Buyer – these positions will be filled by people who can communicate well. Focus will be on oral communication and presentation of students in the class in developing communication skills. As we all know, every message, whether verbal or nonverbal, communicates something about our values & ethics. skills.

## **SOC-302 Introduction to Sociology**

This course basically tends to equip the students with such sociological concepts that will be fruitful for them while operating the businesses keeping in view the dimensions of the society.

## **MKT-301 Principles of Marketing**

This course is designed to introduce foundations of marketing as they relate to the whole business enterprise. This course will focus on developing an understanding of key marketing concepts. The objective of this course, specifically, is to enhance the conceptual knowledge of marketing, as applicable to decision making process with a focus on tactical marketing mix decisions. Further it will provide the student with a comprehensive framework to evaluate marketing decisions and to create successful marketing initiatives. The course, will therefore, provide an understanding of the principles of marketing in relation to the product and services including the planning process, organizing the marketing functions, implementing



the marketing decisions keeping in mind the ethical, legal and societal consideration.

## **STI-401 Statistical Inference**

The main objective of the course is to provide students with clear understanding of application of statistical inference in business management situations.

## **BSF-301 Business Finance**

Business Finance course aims at imparting knowledge about the very basic concepts and tools of Business Finance. It emphasizes the importance of Business Finance skills to individuals and enterprises. It deals with the finance function in an organization, the role of the finance manager. This course develops an insight into financing and current assets management issues.

## **BS-302 Business Statistics**

The course is designed to give non-intimidating presentation of statistical concepts, principals and techniques most useful for students in business management. The main objectives of the course are to enhance students' competency in application of statistics to solve business management problems and to improve their level of quantitative sophistication for further advanced business analysis.

## **ECO-401 Macro Economics**

The basic theme of the course is to explore the operational functions of macro components of an economy within a business society.

## **HRM-601 Training and Development**

The course outline focuses on the theory and practice of training and development and its implications as a strategic reserve in learning organizations. It provides a broader overview of the planned processes, design, and methodologies for training and development in learning organizations. It also covers the contemporary approaches of knowledge management, diverse perspectives on career management systems of human capital for change in the organizational environment.

# Course Description

## **MKT-401 Marketing Management**

The objective of the course is to develop a critical appreciation of the basic concepts and techniques of marketing management and strategy with an emphasis on creating customer value and building customer relationships. The course develops concepts and skills necessary for marketing decision-making and illustrates how various decision-making tools apply to actual business situations. The goal of this course is to develop a disciplined process for addressing marketing issues and problems in a variety of settings, and to give students the tools and background necessary to think through marketing problems.

## **ORB-301 Organizational Behavior**

Organizational behavior (OB) is an interdisciplinary field drawing from numerous disciplines including psychology, sociology, anthropology, economics, organization theory, statistics, and many others. Effective management of human resources within organizations requires an understanding of various behavior and processes. Managers need to know why people behave as they do in relation to their jobs, their work groups and their organizations. This knowledge of individuals' perceptions, motivational attitudes and behavior will enable managers to not only understand themselves better, but also to adopt appropriate managerial policies and leadership styles to increase their effectiveness.

## **BRM-501 Business Research Methods**

Students should be able to gain familiarity with data collection procedures, data analysis and interpretation methods using latest computer software.

## **HRM-302 Human Resource Management**

The modern business and not-for-profit organizations demand high caliber of human resource leaders and planners equipped with sound knowledge of personnel policies and procedures to motivate the workforce for higher efficiency and maximum productivity. In considering the demand, this course is designed to give an overview of current ideas and issues in human resource development. The core objective of the course is to provide students with clear thinking and understanding of how to plan, recruit, train, develop, appraise, compensate and lead human resource.

## **ACT-401 Cost Accounting**

Cost control is an important managerial function. The course gives an idea of various classifications of costs and cost accumulation systems. The course intends to acquaint the students with techniques of establishing cost-standards and analyzing cost-variances. The course provides a base for studying managerial accounting.

## **BAN-301 Money and Banking**

The course is designed to introduce the student's financial and banking aspects of the business. The course gives an overview of monetary, the central reserve and commercial banking systems.

## **LAW-301 Business & Corporate Law**

The course basically deals with the introduction of those commercial laws which are directly or indirectly related to Business. It includes a short study of contract law, partnership Act, companies' ordinance and Negotiable instrument. The emphasis in this course is to introduce the students with the basic concepts of conventional business law and its implementation in the contemporary financial institutions. The course is outlined in such a way to show the basic philosophy of conventional Business Law along with some examples from case study.

## **FIN-401 Financial Management II**

This course aims at imparting knowledge about the fundamental concepts and tools of managerial finance. It emphasizes the importance of managerial finance skills to individuals and enterprises. You are expected to gain an initial understanding of the finance function in an organization, the role of the finance manager and the financial environment in which the firm operates. The financial environment covers the understanding of financial and capital markets along with the broad orientation of macroeconomic factors affecting the business. The emphasis will remain on developing the skills for planning, appraising and evaluating the investment, financing and operating decisions.

## **ECO-403 Economies of Developing Countries**

This course introduces the analysis of economic issues in development. It overviews the major topics in current economic policy discussions and furnishes general economic development framework. This course, in addition to acquainting a variety of major issues in contemporary economic development of fundamental importance to the developing countries, familiarizes the students with the concepts of economic growth and development, and its determinants, so that upon completion of this course the students may understand the process of business decision-making in the light of overall economic and development environment.

## **HRM-604 Conflict Management**

This course helps the students to understand the nature and different approaches to conflict management in modern business organizations. It enables them to be aware of the impact of conflict on the performance and productivity of human resources in organizations. It equips them with various conflict management styles and skills to cope with conflicting situations at work.



# Course Description

## **ACT-501 Managerial Accounting**

The course aims to provide students with an understanding of the core concepts, principals and tools of management accounting and their application in managing business undertakings for decision-making, planning and controlling. Emphasis is placed on the applicability of these principles and techniques to develop plans and to control systems through accounting information systems.

## **MIS-401 Management Information Systems**

The course will establish the concept of Information Technology and MIS in organizational structures. The major objective of this course is to present the "core" of system knowledge that all business school students should study. The major theme of the course is Information Systems for business purposes and the implications of computer technology for the management processes. This course would enable the students to interpret new information technology developments as these occur and anticipate and shape the structure of an organization's information system in recognition of the technology.

## **MGT-401 Total Quality Management**

This course will give basic knowledge to the students about fundamental concepts of statistical process control, total quality management and the application of these concepts, philosophies, and strategies to issues arising in government and industry. It will enhance the student's understanding of the complexities of statistical analysis and control-chart interpretation and their work-place application and will provide skills in diagnosing and analyzing problems causing variation in manufacturing and service industry processes. It will also provide a basic understanding of "widely-used" quality analysis tools and techniques and create an awareness of the quality management problem solving techniques currently in use.

## **ACT-502 Auditing and Taxation**

The course intends to enable the students to comprehend basic principles, procedures and techniques, and latest knowledge of auditing. To develop awareness of International Auditing Standards, to equip the students with latest tools and techniques in internal & external auditing. Introduces students to the concepts, principles, and practical applications of auditing in the business world. The course serves the needs of students planning to enter the accounting profession, particularly those who plan to pursue auditing careers. The study of basic auditing principles, including professional standards, basic auditing concepts, planning an audit, internal controls, sampling tools, fraud, auditing of financial statements and due diligence. By the end of the course the student should have developed a feel for the basic concepts of auditing. Moreover, the course emphasizes on understanding of the salient features of income tax, wealth tax capital value tax and general sales tax, procedures, laws and fundamental working in practice.





## Alumnus Message



### Sahiyaan Hussain (Batch-2017)

I am Sayyan Hussain. A graduate in Finance & Topper of BBA batch 2017-2020 from Gwadar Campus. Currently I am serving as Teaching Fellow in the Department of Management Sciences. During my education I never considered university as an institute but a home, which supported me in every stage and helped me grow and explore my potential. We have qualified teachers who are very supportive and dedicated towards student's development and creating excellent human resource for future opportunities. Furthermore, there are many scholarships for students to avail, in addition to that laptop schemes and study tours. I believe that university education is important for each individual so I urge the students to join University of Gwadar for bright future.

### FIN-501 Financial Markets & Institutions

The course aims at providing insight into functioning of financial markets. The students are required to study the operations in policies and practices of national development financial institutions and international financial agencies.

### MKT- 501 Consumer Behavior

Consumer Behaviour (CB) is a course designed to enhance students understanding of how and why consumers purchase (or do not purchase) goods and services. It will combine both the theoretical concepts of consumer behaviour and its application for marketing strategies related to private, public and non-profit sections. At the conceptual level it will seek to present and integrated framework around which major areas of consumer behaviour can be understood and applied. This course will explore and identify market identities and various sources of influence with the way consumers think and learn from market related information. The knowledge and understanding gained from this course can be utilized in the market place to make rational decisions to satisfy consumer needs and wants and remain loyal to products.

### IB-402 International Business

This course provides the manager's perspective in the fields of international payments, international trade, and the analysis of investments. Emphasis is given to the materials and concepts that illuminate the strategies, structure, practices, and effects of multinational enterprises. The topics to be covered are: The Nature of International Business Management; Marketing to Customers with Diverse Cultural Backgrounds; operations in Diverse Political and Legal Environments; Finance in the International Marketplace; Human Resources and Employees of Diverse Cultural Backgrounds; and Strategy and Structure of International or Global Enterprises

### MIS-402 Electronic Commerce

The course enables the students to know the concept of E – Commerce, the nature of virtual market space, and the use of Internet in business. It elaborated the various E – Commerce models that a company can embrace, the important security issues and the processes involved in E – Commerce.

### ENT-501 Entrepreneurship

With more than half of the new jobs being created in the world economy by small businesses, the particular problems and experiences encountered in starting and developing new enterprises are clearly worth studying. This course of Entrepreneurship has been designed to provide the participants with an overall understanding of the concept of entrepreneurship and small business management. Participants will be prepared to start, survive, and succeed in their own businesses. This course is about learning of risk and failure and growing from it. It is about learning to forge one's ideas into workable business concepts, commit them to paper, and flesh them out into a reasonable form that can be tested to see if it could stand up to the demands of the market. The students must write at a top level, argue the potential of their ideas, and convince investors that their ideas are worth being born in the marketplace.

# Course Description

## **MGT-502 Production & Operation Management**

The objectives of this course are to give deep knowledge to the students about excellence in management of operation / production system. Rapid changes in technology demand enhancement of production capabilities through new materials, facilities, support system, techniques and procedures. The course will also let them know about the considerations of customers, organization and society at large and how managing production system involves taking and implementing various decisions about organizational excellence at both strategic and operational levels.

## **BIN-501 Islamic Banking & Finance**

The main emphasis of the course is to explain procedures and operations related to Islamic modes of lending and investment of financing.

## **FIN-601 International Financial Management**

Students taking this course will learn the nature and purposes of financial management in the international context. They will gain skills in international investment and financing techniques and in exchange risk management. They will learn how to judge the riskiness of a currency from a firm's perspective, and how to measure and manage the company's exposure to exchange rate and international interest rate risks. They will discover how companies use banks, markets such as the Eurobond and currency option markets, and techniques such as currency swaps and hybrid bond structures. In the end, the goal is to apply state-of-the-art techniques to the international firm's investment, financing and risk management decisions.

## **MGT-502 Production & Operation Management**

This course examines the functional area of production and operations management in the manufacturing industry. Topics include decision-making, capacity planning, aggregate planning, forecasting, inventory management, distribution planning, materials requirements planning (MRP), project management and quality control.

## **MGT-605 Strategic Management**

This course, Strategic Management, is about the management of a firm's strategy. It is regarded as the capstone course in the MBA curriculum at business schools around the world. It is aimed at inculcating a strategic and visionary thinking among managers and executives, making themselves and their organizations successful. The course integrates students' knowledge and skills gained from other courses they have done in MBA. It requires them develop conceptual foundations of strategic management around formulation, implementation and evaluation of strategy. Using and applying the subject knowledge, they analyze integrated strategic management cases and offer solutions to the problems identified therein. For living, studying and managing in Pakistan, they study a public limited company (listed at Karachi Stock Exchange), identify its existing strategic direction, evaluate its current strategic performance, analyze its internal and external environments and develop a strategic plan for it. If done with true involvement, effort and passion, this course may redefine the learning experience of the students and pave way for their future success.

## Alumnus Message

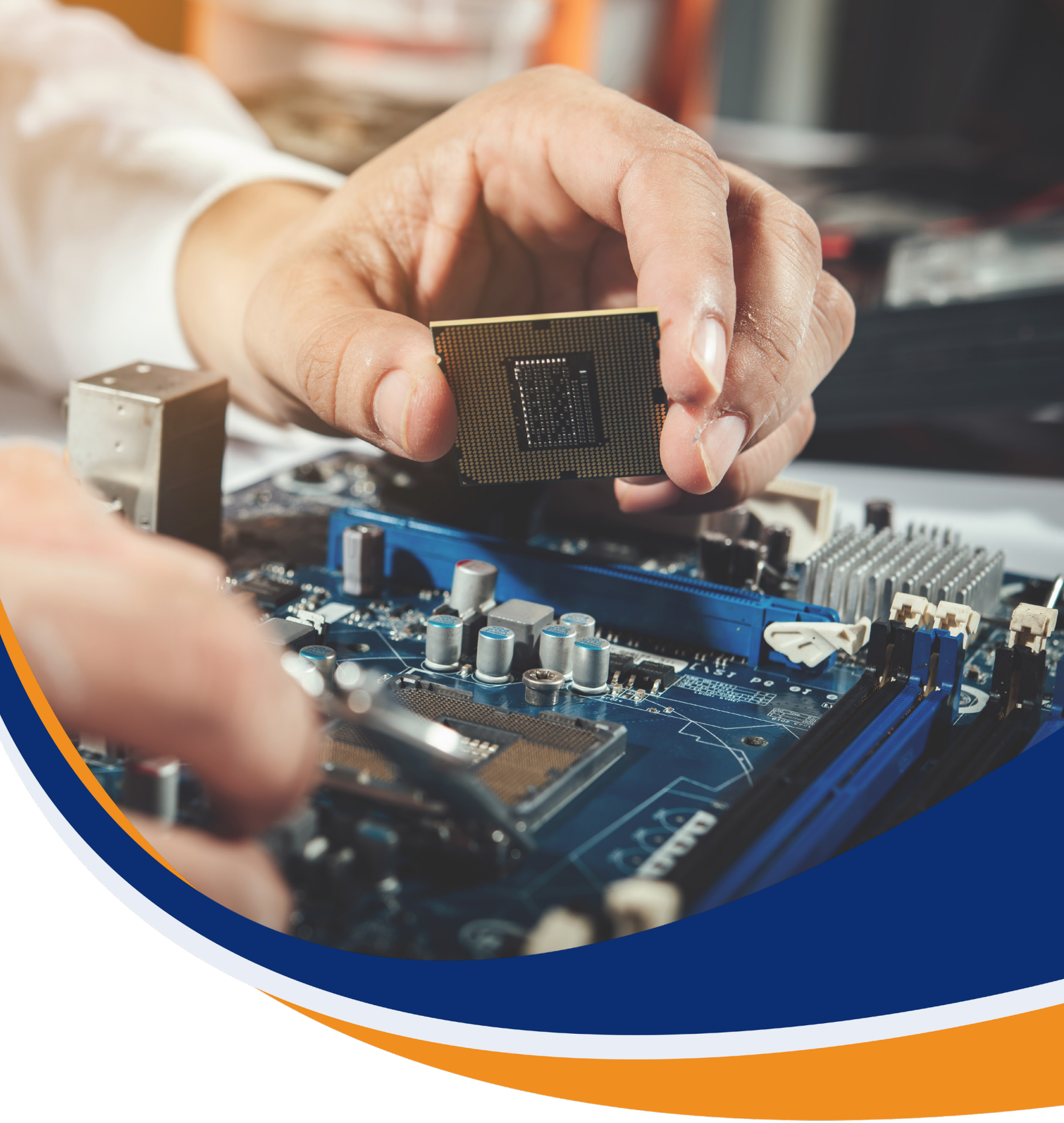


### **Tanveer Hussain (Batch-2017)**

My name is Tanveer Hussain and I have completed my BBA from the Gwadar campus. It is an honour for me to be in the first batch of institution that is now the University of Gwadar. In those four years, I learnt a lot from my teachers. Being a student of Management Sciences was a dream for me, which was accomplished by the institution. The courage and friendly demeanour of the faculty motivated me a lot and boosted my creative and entrepreneurial skills, which would help me achieve my goals. As Nelson Mandela said,

" Education is the most powerful weapon which you can use to change the world."

I urge my friends to get admission to the University of Gwadar to pursue their dream.



**Faculty of Sciences,  
Engineering & Technology**





## **Dr. Dhani Bux**

Dean (Acting)

PhD (Guilin University of Electronic technology, Guilin China)

### **Departments:**

- **Chemistry**
- **Computer Science**

### **Dean Message:**

Welcome to the Faculty of Sciences, Engineering and Technology at University of Gwadar. Since the industrial revolution, engineers and scientists have been at the forefront of innovation and change in the world. Today, we face a dynamic, challenging world that calls for urgent solutions to balance both human needs and natural concerns. The demand for problem solving leaders with engineering and computational proficiencies has never been greater.

At the University of Gwadar we are educating today's engineers and computational professionals to be tomorrow's problem solving leaders through innovative curricula and research activities. Our distinguished faculty engage students in a unique, interactive learning environment that facilitates academic excellence and prepares our students for their future careers while they earn a B.S., M.S., or Ph.D degree. All programs enable working professionals to earn the M.S., or Ph.D. without interrupting their careers. Companies seeking new sources of talent are looking at our Univeristy because of our commitment to our students and quality programs.

Please explore our website and visit our campus to seek ways in which we can help you fulfill your educational goals. Thank you for visiting our dynamic learning community and best wishes in your educational and professional endeavors.





# Department of Chemistry

Programs:

- BS Chemistry (4 Years)

# Requirements

## Fee Structure of BS Chemistry

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	2,000
2	Tuition Fee	9,000
3	Security Money Refundable (Onetime fee)	2,000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	2,000
7	Sports Fee	250
8	Transport Fee per semester	250
9	Library Fee	250
10	Total (First Semester Fee)	<b>16,200</b>
11	Fee per semester from 2 <sup>nd</sup> to 8 <sup>th</sup>	<b>12,200</b>

## Degree Requirement for BS Chemistry

For obtaining Bachelor of Science in Chemistry degree, a student has to complete Minimum 131 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (Chemistry) degree offered by Department of Chemistry are given below;

Compulsory Requirements (The Student Has No Choice)		General Courses to Be Chosen from Other Dept.	
9 Courses		7- 8 Courses	
25 Credit hours		21- 24 Credit hours	
Subject	Cr. hr	Subject	Cr. hr
ENGLISH I	3	GEN-100	3
ENGLISH II	3	GEN-101	3
ENGLISH III	3	GEN-201	3
ENGLISH IV/ UNIVERSITY OPTIONAL *	3	GEN-301	3
PAKISTAN STUDIES	2	GEN-302	3
ISLAMIC STUDIES / ETHICS	2	GEN-400	3
MATHEMATICS-I	3	GEN-401	3
MATHEMATICS-II / UNIVERSITY OPTIONAL**	3		
INTRODUCTION TO COMPUTER	3		
TOTAL 25		TOTAL 21	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Discipline specific foundation courses	CHEM-151	Inorganic Chemistry	3+1	23
	CHEM-161	Organic Chemistry	3+1	
	STAT-100	Statistics	3	
	CHEM-111	Analytical Chemistry	2	
	CHEM-131	Biochemistry	2	
	CHEM-121	Industrial Chemistry	2	
	CHEM-171	Physical Chemistry	3+1	
	CHEM-141	Environmental Chemistry	2	
Major courses including research project/internship	CHEM-251	Inorganic Chemistry	3+1	52
	CHEM-261	Organic Chemistry	3+1	
	CHEM-271	Physical Chemistry	3+1	
	CHEM-211/231	Analytical-/ Bio- Chemistry	3+1	
	CHEM-351	Inorganic Chemistry	3+1	
	CHEM-361	Organic Chemistry	3+1	
	CHEM-371	Physical Chemistry	3+1	
	CHEM-311/331	Analytical-/ Bio- Chemistry	3+1	
		CHEM-PAPER-I	3	
		CHEM- PAPER-II	3	
		CHEM- PAPER-III	3	
		PRACTICAL.-I	1	
		CHEM-PAPER-IV	3	
		CHEM-PAPER-V	3	
		CHEM-PEPER-VI	3	
		PRACTICAL-II	1	
Elective courses within the major		ELECTIVE COURSE – I	3	
		ELECTIVE COURSE – II	3	
		RESEARCH PROJECT / ADVANCED PRACTICAL-I/ POSITION PAPER	2	
		RESEARCH PROJECT / ADVANCED PRACTICAL-I/ POSITION PAPER	2	

# Semester Wise Study Plan

Course Title		Credit hours	
<b>Semester - I</b>		Theory	Practical
ENG-100	English-I (Functional)	3	0
GEN-100	General-I	3	0
GEN-101	General-II	3	0
MATH-100	Mathematics-I / Functional Biology	3	0
COMP-100	Computer and Its Applications in Chemistry	3	0
CHEM-151	Inorganic Chemistry	3	1
<b>Total</b>		<b>18</b>	<b>1</b>
Course Title		Credit hours	
<b>Semester - II</b>		Theory	Practical
ENG-200	English-II (Functional)	3	0
GEN-200	Islamic Studies / Ethics	2	0
GEN-201	General-III	3	0
MATH-200	Mathematics-II/ Functional Biology/University Optional	3	0
STAT-100	Statistics	3	0
CHEM-161	Organic Chemistry	3	1
<b>Total</b>		<b>17</b>	<b>1</b>
Course Title		Credit hours	
<b>Semester - III</b>		Theory	Practical
ENG-300	English-III (Report Writing)	3	0
GEN-300	Pakistan Studies	2	0
GEN-301	General-IV	3	0
GEN-302	General-V	3	0
CHEM-141	Environmental Chemistry	1	0
CHEM-171	Physical Chemistry	3	1
<b>Total</b>		<b>16</b>	<b>1</b>
Course Title		Credit hours	
<b>Semester - IV</b>		Theory	Practical
ENG-400	English-IV / University Optional	3	0
GEN-400	General-VI	3	0
GEN-401	General-VII	3	0
CHEM-111	Analytical Chemistry	2	0
CHEM-121	Industrial Chemistry	2	0
CHEM-131	Biochemistry	2	0
<b>Total</b>		<b>15</b>	<b>0</b>



# Semester Wise Study Plan

Course Title	Credit hours	
Semester - V	Theory	Practical
CHEM-251 Inorganic Chemistry	3	1
CHEM-261 Organic Chemistry	3	1
CHEM-271 Physical Chemistry	3	1
CHEM-211 Analytical-/ CHEM-231 Bio-Chemistry	3	1
<b>Total</b>	<b>12</b>	<b>4</b>

Course Title	Credit hours	
Semester - VI	Theory	Practical
CHEM-351 Inorganic Chemistry	3	1
CHEM-361 Organic Chemistry	3	1
CHEM-371 Physical Chemistry	3	1
CHEM-311 Analytical-/ CHEM-331 Bio- Chemistry	3	1
<b>Total</b>	<b>12</b>	<b>4</b>

Course Title	Credit hours	
Semester - VII Specialization (Inorganic/Organic/Physical/Applied/ Analytical/Bio Chemistry)	Theory	Practical
Paper-I	3	0
Paper-II	3	0
Paper-III	3	0
Practical-I	0	1
Elective Course-I (other than the field of specialization)	3	0
Research Project / Advanced Practical / Position Paper (literature survey)	0	2
<b>Total</b>	<b>12</b>	<b>3</b>

Course Title	Credit hours	
Semester - VIII Specialization (Inorganic/Organic/Physical/Applied/ Analytical/Bio Chemistry)	Theory	Practical
Paper-IV	3	0
Paper-V	3	0
Paper-VI	3	0
Practical-II	0	1
Elective Course-II (other than the field of specialization)	3	0
Research Project / Advanced Practical / Position Paper (write-up)	0	2
<b>Total</b>	<b>12</b>	<b>3</b>



## Department of Computer Science

### Programs:

- BS Computer Science (4 Years)
- BS Data Science (4 Years)
- BS Information Technology (4 Years)
- Diploma in Information Technology (1 Year)





## Mr. Hafeez Ullah

Chairperson (Acting)

MS Computer Science (MAJU Karachi, PK)

BS Information Technology (BUITEMS Quetta, PK)

### Faculty

Mr. Muhammad Akram (on Study Leave)

MS in Information Technology ( Hamdard University Karachi, PK)

- **Ms. Haim Gul**

MS in Computer Science ( Comsat University Islamabad, PK)

- **Mr. Mir Bilal Khan**

MS in Data Science ( University of Hertfordshire , UK)

- **Mr. Shayhaq Ali**

MS in Computer Science (MAJU Karachi, PK)

### Teaching Fellows

- **Ms. Naeema Gul**

BS Computer Science ( LUAWMS, PK)

- **Ms. Naeema Karim**

M.phil in English linguistic ( LUAWMS, PK) In-Progress

# Introduction

The University of Gwadar's Department of Computer Science is one of the predecessor departments, have been established in 2017 as an undergraduate program in conjunction with the campus's opening. Computers and digital communication have become a fundamental component of the infrastructure of business, government, research, and even regular social contact as a result of the digital era.

Scientists hold the keys to the next generation's routine wonders, as the speed of innovation and technological growth accelerates.

The University of Gwadar's Department of Computer Science (CS) is well positioned to help those future intellectual leaders, entrepreneurs, thinkers, and innovators to succeed.

The University of Gwadar, as an institution, ensures that its students have a life-changing experience.

At the University of Gwadar, you can study computer science in a variety of ways to suit your needs. Whether you want an in-depth education in computer science's conceptual foundations and complex software and hardware systems, an informed understanding of the aesthetic aspects of digital media design, expertise in the design and analysis of the complex networks that are reshaping our society, or to learn more about artificial intelligence, computer vision, control systems, dynamics, machine learning, or the programming that will produce tomorrow's inn.

At our departmental events, presentations by outstanding leaders in their fields add rigour, breadth, and relevance to the research and education experience.

The University of Gwadar fosters an academic environment in which research and education are informed by one another.

We invite you to join us at the Department of Computer Science, which is an exciting place to be.

## Department Mission

The Computer Science Department aspires to excellence in the creation, application, and transmission of knowledge in computer science, as well as the establishment of an exceptional community of students and teachers dedicated to innovative scientific and knowledge research and education for the benefit of participants, Gwadar, Pakistan, and the rest of the globe.

## Objective of the department

- To offer high-quality, all-encompassing educational programs and services, as well as educational and training opportunities that may be tailored to meet changing demands.
- To give a solid foundation of information, skills, and critical thinking abilities as well as to understand and respect variety and differences.
- To connect basic principles to practical applications and to prepare students for work in a variety of settings or for further study and a profession requiring knowledge and skills in information technology.

The department offer following programs:

## Bachelor of Science in (Computer Science)

Computer science is the study of the theory, experimentation, and engineering that form the basis for the design and use of computers. It is the scientific and practical approach to computation and its applications and the systematic study of the feasibility, structure, expression, and mechanization of the methodical procedures (or algorithms) that underlie the acquisition, representation, processing, storage, communication of, and access to information. Computer Science is the application of a systematic, disciplined and quantifiable approach to the design, development, operation, and maintenance of software systems. It is in fact the practice of designing and implementing large, reliable, efficient and economical software by applying the principles and practices of engineering. The program aims to train students in all aspects of software life cycle from specification through analysis and design to testing, maintenance and evaluation of software.

## Bachelor of Science in (Information Technology)

The program develops well-rounded scientific and educational workforce in the field of information technology, with a depth of knowledge and research capability. The course work is a good blend of theoretical and practical work that helps students acquire the capacity to critically examine an issue in terms of how to solve it in the most practical way. Students may improve their abilities by adopting new computer technologies via self-directed professional growth and training, as well as the capacity to communicate information effectively. On the basis of their learning and research, the program is created in such a manner that students are capable of applying their abilities to certain specialist areas after completing their studies and research.

## Bachelor of Science in (Data Science)

BS (Data Science) has a dual emphasis on basic principles of statistics and computer science, with foundational training in statistical and mathematical aspects of data analysis. This program develops foundation on broad computer science principles, including algorithms, data structures, data management and machine learning. This program will prepare graduates for a career in data analysis, combining foundational statistical concepts with computational principles from computer science.

## Program Educational Objectives (PEO's) BS(CS), BS(DS) & BS(IT)

The goal of the program is to produce entrepreneurs with great character, competence, vision, and drive who are equipped with up-to-date knowledge, marketable skills, valuable competencies, unique expertise, globally compatible dispositions, and culturally and professionally acceptable values to take on appropriate professional roles in the information technology domain or proceed to further or higher education or training.



# Introduction

One of the program's primary goals is to provide students with the skills and knowledge necessary to take on appropriate professional positions in IT and advance to leadership positions.

- Apply computing and mathematics knowledge appropriate to the discipline.
- Analyze a problem and identify and define the computing requirements needed to solve it.
- Create, implement, and test a computer-based system, process, component, or programme to meet specific requirements.
- Work effectively in groups to achieve a common goal.
- Understand the professional, ethical, legal, security, and social issues and responsibilities.
- Communicate effectively with a variety of audiences.
- Examine the local and global impact of computing on individuals, organizations, and society.
- Recognize the importance of, and ability to engage in, continuing professional development.
- Apply current techniques, skills, and tools for computing practice.
- Utilize and apply cutting-edge technical concepts and practices in core information technologies.
- Identify and analyze user needs and incorporate them into the design, development, testing, and administration of computer-based systems.
- Integrate information technology-based solutions into the user environment.
- Understand best practices and standards, as well as how to apply them.
- Assist in the development of an efficient project plan.

## Program Learning Outcomes (PLO's) BS(CS), BS(DS) & BS(IT)

Computing programs prepare students to attain educational objectives by ensuring that students demonstrate achievement of the following outcomes.

(derived from Graduate Attributes define by Seoul Accord ). Source: [www.seoulaccord.org](http://www.seoulaccord.org)

## Academic Education

To prepare graduates as computing professionals.

### Knowledge for Solving Computing Problems

Apply knowledge of computing fundamentals, specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.

### Problem Analysis

Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

## Design/Development of Solutions

Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.

## Individual and Team Work

Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.

## Communication

Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

## Computing Professionalism and Society

Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

## Ethics

Understand and commit to professional ethics, responsibilities, and norms of professional computing practice.

## Life-long Learning

Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

## Facilities for Computer Science Department

### System Lab

The System laboratory is used mainly by seniors of Information Technology (IT) Data Science (DS) and Computer Science (CS) programs for developing their final year projects. This lab is equipped with 30 Core-i7 workstations running on Windows operating systems, network simulation software tools, Visual Studio 2020, and other simulation and development software. Students are allowed to add hardware and accessories according to their project requirements.

## Admission Criteria

- At least 50% marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC.

**OR**

- At least 50% marks in Intermediate (HSSC) examination with pre-Medical or equivalent qualification, certified by IBCC.

## Deficiency

Students with pre-medical, must have to pass deficiency course of Mathematics of 3 credit hours in second semester.

# Requirements

## Fee Structure of BS(CS), BS(DS) & BS(IT)

Sr. No	Detail of Charges	Amount
1	Admission Fee (One-time fee)	2,000
2	Tuition Fee	9,000
3	Security Money Refundable (Onetime fee)	2,000
4	Examination fee	250
5	Identity Card	200
6	Lab fee	2,000
7	Sports Fee	250
8	Transport Fee per semester	250
9	Library Fee	250
10	Total (First Semester Fee)	<b>16,200</b>
11	Fee per semester from 2 <sup>nd</sup> to 8 <sup>th</sup>	<b>12,200</b>



# Requirements

## Degree Requirement for BS in (Computer Science)

For obtaining Bachelor of Science in Computer Science degree, a student has to complete Minimum 133-136 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (CS) degree offered by Department of Computer Science are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Computing Core Courses	CS-221-221L	Programming Fundamentals	3+1	39
	CS-321-321L	Data Structures & Algorithms	3+1	
	CS-322-321L	Object Oriented Programming	3+1	
	CS-311	Discrete Structures	3+0	
	CS-312	Software Engineering	3+0	
	CS-323-323L	Computer Networks	3+1	
	CS-324-324L	Database Systems	3+1	
	CS-313	Information Security	3+0	
	CS-325-325L	Operating Systems	3+1	
	CS-471-472	Final Year Project	0+6	
Computer Science Core Courses	CS-342	Compiler Construction	3	24
	CS-425-425L	Comp. Organization & Assembly Language	3+1	
	CS-327-327L	Digital Logic Design	3+1	
	CS-343	Design & Analysis of Algorithms	3+0	
	CS-414	Parallel & Distributed Computing	3+0	
	CS-426-426L	Artificial Intelligence	3+1	
	CS-315	Theory of Automata	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Computer Science Supporting Courses	MT-311	Differential Equations	3+0	09
	MT-312	Multi-variate Calculus	3+0	
	CS-415	Graph Theory	3+0	
	CS-416	Theory of Programming Languages	3+0	
	CS-417	Numerical Computing	3+0	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
University Elective- Courses	SS-211	Introduction to Sociology	3+0	12
	SS-212	Introduction to Logic	3+0	
	SS-21X	Foreign Languages	3+0	
	ACT-211	Principles of Accounting	3+0	
	MG-212	Organizational Behavior	3+0	
	MG-213	Entrepreneurship	3+0	
	MG-214	Principles of Management	3+0	
	MG-341	Human Resource Management	3+0	
	MT-211	Basic Mathematics -I	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Science & Mathematics Foundation Course	PHY-211-211L	Applied Physics	2+1	12
	MT-212	Calculus & Analytical Geometry	3+0	
	MT-213	Linear Algebra	3+0	
	ST-211	Probability & Statistics	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
General Education Courses	ICT-221-221L	Introduction to ICT	2+1	09
	EG-211	English Composition & Comprehension	3+0	
	HM-211	Islamic Studies/ Ethics	2+0	
	EG-311	Communication & Presentation Skills	3+0	
	HM-212	Pakistan Studies	2+0	
	EG-312	Technical & Business Writing	3+0	
	HM-341	Professional Practices	3+0	



# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
CS Electives (Choose any five courses)	SE-345	Software Engineering Economics	3	15
	SE-346	Human Computer Interaction	3	
	CS-353-353L	Mobile Application Development	2+1	
	CS-354-354L	Computer Game Development	2+1	
	CS-355-355L	Visual Programming	2+1	
	CS-356-356L	Multimedia Technologies	2+1	
	CS-357-357L	Web Engineering	2+1	
	CS-421-421L	Enterprise Application Development	2+1	
	CS-422-422L	Systems Programming	2+1	
	SE-411	Software Quality Engineering	3	
	SE-412	Software Design and Architecture	3	
	SE-413	Software Project Management	3	
	SE-441	Data Warehousing	3	
	SE-442	Data Mining	3	
	CS-423-423L	Digital Forensics	2+1	
	CS-441	Cryptography	3	
	CS-451	Network Security	3	
	CS-424	Wireless Networks	3	
	CS-442-442L	Computer Vision	2+1	
	CS-358	Artificial Intelligence	3	
	CS-453-453L	Digital Image Processing	2+1	
	CS-454	Machine Learning	3	
	CS-341	Cloud Computing	3	
	CS-359	Network Design and Management	3	
	CS-431	Parallel & Distributed Computing	3	
	CS-411	Introduction to Data Science	3	
	CS-412	Blockchain Technology	3	
	CS-413-413L	Internet of Things	2+1	
	CS-414-414L	System And Network Administration	2+1	
	CS-425-425L	Advanced Databases	2+1	
Deficiency Course For Pre-Medical Students				
	MT-111	Basic Mathematics-II	3+0	3

# Semester Wise Study Plan

## Proposed Semester Wise Study Plan of BS in (Computer Science)

Tentative course offering plan for BS in (Computer Science) degree offered for Spring 2022 in given below in a semester wise format.

	Course Code	Course Title	Pre-requisite	Credit Hours
1 <sup>st</sup> Semester (Credit Hours-18)	MT-211	Basic Mathematics -I	None	3
	ICT-221	Introduction to ICT	None	2
	ICT-221L	Introduction to ICT Lab	None	1
	SS-212	Introduction to Logic (University Elective – I )	None	3
	EG-211	English Composition & Comprehension	None	3
	PHY-211	Applied Physics	None	3
	PHY-211L	Applied Physics Lab	None	1
	HM-211	Islamic Studies/ Ethics	None	2

	Course Code	Course Title	Pre-requisite	Credit Hours
2 <sup>nd</sup> Semester (Credit Hours-18)	MT-111	Basic Mathematics -II*	None	3
	CS-221	Programming Fundamentals	None	3
	CS-221L	Programming Fundamentals Lab	None	1
	CS-311	Discrete Structures	None	3
	EG-311	Communication & Presentation Skills	None	3
	MT-212	Calculus & Analytical Geometry	None	3
	HM-212	Pakistan Studies	None	2

	Course Code	Course Title	Pre-requisite	Credit Hours
3 <sup>rd</sup> Semester (Credit Hours-18)	CS-322	Object Oriented Programming	Programming Fundamentals	3
	CS-321L	Object Oriented Programming Lab	Programming Fundamentals	1
	CS-323	Computer Networks	None	3
	CS-323L	Computer Networks Lab	None	1
	ST-211	Probability & Statistics	None	3
	CS-327	Digital Logic Design	Applied Physics	3
	CS-327	Digital Logic Design Lab	Applied Physics	1
	MT-213	Linear Algebra	None	3

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
4th Semester (Credit Hours-17)	CS-425 Comp Organization & Assembly Language	None	3
	CS-425 Comp Organization & Assembly Language Lab	None	1
	MT-312 Multi-variate Calculus	None	3
	CS-321 Data Structures & Algorithms	Programming Fundamentals	3
	CS-321L Data Structures & Algorithms Lab	Programming Fundamentals	3
	CS-312 Software Engineering	None	3
	SS-211 Introduction to Sociology (University Elective – II)	None	3
Course Code	Course Title	Pre-requisite	Credit Hours
5th Semester (Credit Hours-17)	CS-324 Database Systems	None	3
	CS-324L Database Systems Lab	None	1
	EG-312 Technical & Business Writing	None	3
	CS-325 Operating Systems	None	3
	CS-325L Operating Systems Lab	None	1
	CS-417 Numerical Computing	None	3
	CS-315 Theory of Automata	None	3
Course Code	Course Title	Pre-requisite	Credit Hours
6th Semester (Credit Hours-16)	CS-426 Artificial Intelligence	Discrete Structure	3
	CS-426L Artificial Intelligence Lab	Discrete Structure	1
	MT-311 Differential Equations	Calculus & Analytical Geometry	3
	CS-343 Design and Analysis of Algorithms	Data structure and Algorithm	3
	CS-313 Information Security	None	3
	CS Elective – I		3
Course Code	Course Title	Pre-requisite	Credit Hours
7th Semester (Credit Hours-18)	CS-471 Final Year Project – I	None	3
	CS-414 Parallel & Distributed Computing	Operating Systems	3
	CS-342 Compiler Construction	Theory of Automata	3
	ACT-211 Principles of Accounting (University Elective-III)	None	3
	CS Elective – II		3
	CS Elective – III		3

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
8 <sup>th</sup> Semester (Credit Hours-18)	CS-472 Final Year Project – II	None	3
	MG-213 Entrepreneurship (University Elective IV)	None	3
	HM-341 Professional Practices	None	3
	CS Elective – IV		3
	CS Elective-V		3

\* Fsc (Pre-Medical) deficiency courses will not be counted toward the CGPA.





# Requirements

## Degree Requirement for BS in (Data Science)

For obtaining Bachelor of Science in Data Science degree, a student has to complete Minimum 133-136 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (DS) degree offered by Department of Computer Science are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Computing Core Courses	CS-221-221L	Programming Fundamentals	3+1	39
	CS-321-321L	Data Structures & Algorithms	3+1	
	CS-322-322L	Object Oriented Programming	3+1	
	CS-311	Discrete Structures	3+0	
	CS-312	Software Engineering	3+0	
	CS-323-323L	Computer Networks	3+1	
	CS-324-324L	Database Systems	3+1	
	CS-313	Information Security	3+0	
	CS-325-325L	Operating Systems	3+1	
	IT-471-472	Final Year Project	0+6	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Data Science Core Courses	ST-311	Advance Statistics	3+0	18
	CS-411	Introduction to Data Science	2+1	
	SE-442	Data Mining	3+0	
	DS-411	Data Visualization	2+1	
	DS-412	Data Warehousing & Business Intelligence	3+0	
	DS-413	Big Data Analytics	2+1	
Course Category	Course Code	Course Title	Credit hours	Total Credits
University Elective Courses	SS-211	Introduction to Sociology	3+0	15
	SS-212	Introduction to Logic	3+0	
	SS-21X	Foreign Language (Chinese, Persian, Arabic)	3+0	
	ACT-211	Principles of Accounting	3+0	
	MG-212	Organizational Behavior	3+0	
	MG-213	Entrepreneurship	3+0	
	MG-214	Principles of Management	3+0	
	MG-341	Human Resource Management	3+0	
	MT-211	Basic Mathematics -I	3+0	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
Science & Mathematics Foundation Course	MT-212	Calculus & Analytical Geometry	3+0	12
	MT-213	Linear Algebra	3+0	
	ST-211	Probability & Statistics	3+0	
	MT-311	Differential Equations	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
General Education Courses	ICT-221-221L	Introduction to ICT	3+0	19
	EG-211	English Composition & Comprehension	2+1	
	HM-211	Islamic Studies/ Ethics	3+0	
	EG-311	Communication & Presentation Skills	2+1	
	HM-212	Pakistan Studies	3+0	
	EG-312	Technical & Business Writing	2+1	
	HM-341	Professional Practices	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Data Science Elective Courses	SE-346	Human Computer Interaction	3+0	12
	CS-422-422L	Systems Programming	2+1	
	SE-441	Data Warehousing	3+0	
	CS-442-442L	Computer Vision	2+1	
	CS-454	Machine Learning	2+1	
	CS-341	Cloud Computing	3+0	
	CS-412	Blockchain Technology	3+0	
	DS-311	Deep Learning	2+1	
	CS-315	Theory of Automata & Formal Languages	3+0	
	DS-416	Natural Language Processing	2+1	
	CS-357-357L	Artificial Neural Networks	2+1	
	CS-359	Speech Processing	3+0	
	CS-358	Agent Based Modeling	3+0	
	DS-316	Text Mining	3+0	
	DS-312	Topics in Data Science	3+0	
	CS-457	Advance Database Management Systems	3+0	
Deficiency Course For Pre-Medical Students				
	MT-111	Basic Mathematics-II	3+0	3

# Semester Wise Study Plan

## Semester Wise Study Plan of BS in (Data Science)

Tentative course offering plan for BS in (Data Science) degree offered for Spring 2022 is given below in a semester wise format.

Course Code	Course Title	Pre-requisite	Credit Hours
MT-211	Basic Mathematics -I	None	3
ICT-221	Introduction to ICT	None	2
ICT-221L	Introduction to ICT Lab	None	1
SS-212	Introduction to Logic	None	3
EG-211	English Composition & Comprehension	None	3
PHY-211	Applied Physics	None	3
PHY-211L	Applied Physics Lab	None	1
HM-211	Islamic Studies/ Ethics	None	2

Course Code	Course Title	Pre-requisite	Credit Hours
MT-111	Basic Mathematics -II*	None	3
CS-221	Programming Fundamentals	None	3
CS-221L	Programming Fundamentals Lab	None	1
EG-311	Communication & Presentation Skills	None	3
MT-212	Calculus & Analytical Geometry	MT-211	3
CS-311	Discrete Structures	None	3
HM-212	Pakistan Studies	None	2

\* Deficiency courses for Fsc. Pre-Medical Students, shall not be counted in CGPA calculation

Course Code	Course Title	Pre-requisite	Credit Hours
CS-321	Object Oriented Programming	CS-221	3
CS-321L	Object Oriented Programming Lab	CS-221L	1
CS-312	Software Engineering	None	3
CS-323	Computer Networks	None	3
CS-323L	Computer Networks Lab	None	1
ST-211	Probability & Statistics	None	3
MT-213	Linear Algebra	None	3

# Semester Wise Study Plan

	Course Code	Course Title	Pre-requisite	Credit Hours
4 <sup>th</sup> Semester (Credit Hours-17)	CS-324	Database Systems	None	3
	CS-324L	Database Systems Lab	None	1
	CS-321	Data Structures & Algorithms	CS-221	3
	CS-321L	Data Structures & Algorithms Lab	CS-221L	1
	MT-311	Differential Equations	Calculus & Analytical Geometry	3
	CS-411	Introduction to Data Science	Artificial Intelligence	2
	CS-411L	Introduction to Data Science lab	None	1
	SS-211	Introduction to Sociology (University Elective – II )	None	3

	Course Code	Course Title	Pre-requisite	Credit Hours
5 <sup>th</sup> Semester (Credit Hours-17)	CS-343	Design and Analysis of Algorithms	Data structure and Algorithm	3
	CS-313	Information Security	None	3
	CS-426	Artificial Intelligence	OOP	3
	CS-426L	Artificial Intelligence Lab	OOP	1
	CS-325	Operating Systems	None	3
	CS-325L	Operating Systems Lab	None	1
	ACT-211	Principles of Accounting (University Elective – III)	None	3

	Course Code	Course Title	Pre-requisite	Credit Hours
6 <sup>th</sup> Semester (Credit Hours-16)	EG-312	Technical & Business Writing	None	3
	CS-425	Comp Organization & Assembly Language	OS	3
	CS-425L	Comp Organization & Assembly Language Lab	OS	1
	SE-442	Data Mining	Intro. To Data Science	3
	DS-412	Data Warehousing & Business Intelligence	Intro. To Data Science	3
	ST-311	Advance Statistics	Probability & Statistics	3



# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
DS-471	Final Year Project I	None	2
DS-413	Big Data Analytics	Inro. Data Science	2
DS-413L	Big Data Analytics Lab	Inro. Data Science Lab	1
CS-414	Parallel & Distributed Computing	Operating Systems	3
DS-411	Data Visualization	Data Warehousing & Business Intelligence	2
DS-411L	Data Visualization Lab	Data Warehousing & Business Intelligence	1
DS Elective - I			3
DS Elective - II			3

7<sup>th</sup> Semester  
(Credit Hours-16)

Course Code	Course Title	Pre-requisite	Credit Hours
IT-472	Final Year Project II	None	4
MG-213	Entrepreneurship (University Elective IV)	None	3
HM-341	Professional Practices	None	3
DS Elective - III			3
DS Elective - IV			3

8<sup>th</sup> Semester  
(Credit Hours-16)



# Requirements

## Degree Requirement for BS in (Information Technology)

For obtaining Bachelor of Science in Information Technology degree, a student has to complete Minimum 133-136 credit hours with a CGPA of 2.0 or above.

Course requirements for obtaining BS (IT) degree offered by Department of Computer Science are given below;

Course Category	Course Code	Course Title	Credit hours	Total Credits
Computing Core Courses	CS-221-221L	Programming Fundamentals	3+1	39
	CS-321-321L	Data Structures & Algorithms	3+1	
	CS-322-322L	Object Oriented Programming	3+1	
	CS-311	Discrete Structures	3+0	
	CS-312	Software Engineering	3+0	
	CS-323-323L	Computer Networks	3+1	
	CS-324-324L	Database Systems	3+1	
	CS-313	Information Security	3+0	
	CS-325-325L	Operating Systems	3+1	
	IT-471-472	Final Year Project	0+6	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Information Technology Core Courses	IT-321	Web Technologies	2+1	24
	IT-311	Information Technology Infrastructure	3+0	
	IT-351-351L	Database Administration and Management	3+1	
	IT-312	Information Technology Project Management	3+0	
	IT-352-352L	System and Network Administration	3+1	
	IT-341	Cyber Security	3+0	
	IT-353	Virtual Systems and Services	3+1	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Information Technology Supporting Courses	SE-341	Enterprise Systems	3+0	09
	SE-342	Modeling and Simulation	3+0	
	SE-343	Software Requirements Engineering	3+0	
	SE-344	Formal Methods	3+0	
	CS-391	Operations Research	3+0	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
University Elective Courses	SS-211	Introduction to Sociology	3+0	12
	SS-212	Introduction to Logic	3+0	
	SS-21X	Foreign Languages	3+0	
	MG-211	Principles of Accounting	3+0	
	MG-212	Organizational Behavior	3+0	
	MG-213	Entrepreneurship	3+0	
	MG-214	Principles of Management	3+0	
	MG-341	Human Resource Management	3+0	
	MT-211	Basic Mathematics -I	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
Science & Mathematics Foundation Course	PHY-211-211L	Applied Physics	2+1	12
	MT-212	Calculus & Analytical Geometry	3+0	
	MT-213	Linear Algebra	3+0	
	ST-211	Probability & Statistics	3+0	
Course Category	Course Code	Course Title	Credit hours	Total Credits
General Education Courses	ICT-221-221L	Introduction to ICT	2+1	09
	EG-211	English Composition & Comprehension	3+0	
	HM-211	Islamic Studies/ Ethics	2+0	
	EG-311	Communication & Presentation Skills	3+0	
	HM-212	Pakistan Studies	2+0	
	EG-312	Technical & Business Writing	3+0	
	HM-341	Professional Practices	3+0	

# Requirements

Course Category	Course Code	Course Title	Credit hours	Total Credits
IT Electives (Choose any five courses)	SE-345	Software Engineering Economics	3	15
	SE-346	Human Computer Interaction	3	
	CS-353	Mobile Application Development	2+1	
	CS-354	Computer Game Development	2+1	
	CS-355	Visual Programming	2+1	
	CS-356	Multimedia Technologies	2+1	
	CS-357	Web Engineering	2+1	
	CS-421	Enterprise Application Development	2+1	
	CS-422	Systems Programming	2+1	
	SE-411	Software Quality Engineering	3	
	SE-412	Software Design and Architecture	3	
	SE-413	Software Project Management	3	
	SE-441	Data Warehousing	3	
	SE-442	Data Mining	3	
	CS-423	Digital Forensics	2+1	
	CS-441	Cryptography	3	
	CS-451	Network Security	3	
	CS-424	Wireless Networks	3	
	CS-442	Computer Vision	2+1	
	CS-358	Artificial Intelligence	3	
	CS-453	Digital Image Processing	2+1	
	CS-454	Machine Learning	3	
	CS-341	Cloud Computing	3	
	CS-359	Network Design and Management	3	
	CS-431	Parallel & Distributed Computing	3	
	CS-411	Introduction to Data Science	3	
	CS-412	Blockchain Technology	3	
	CS-413	Internet of Things	(2+1)	
Deficiency Course For Pre-Medical Students				
	MT-111	Basic Mathematics-II	3+0	3



# Semester Wise Study Plan

## Semester Wise Study Plan of BS in (Information Technology)

Tentative course offering plan for BS in (Information Technology) degree offered for Spring 2022 is given below in a semester wise format.

Course Code	Course Title	Pre-requisite	Credit Hours
1 <sup>st</sup> Semester (Credit Hours-18)	MT-211	Basic Mathematics -I	3
	ICT-221	Introduction to ICT	2
	ICT-221L	Introduction to ICT Lab	1
	SS-212	Introduction to Logic	3
	EG-211	English Composition & Comprehension	3
	PHY-211	Applied Physics	3
	PHY-211L	Applied Physics Lab	1
	HM-211	Islamic Studies/ Ethics	2

Course Code	Course Title	Pre-requisite	Credit Hours
2 <sup>nd</sup> Semester (Credit Hours-18)	MT-111	Basic Mathematics -II*	3
	CS-221	Programming Fundamentals	3
	CS-221L	Programming Fundamentals Lab	1
	EG-311	Communication & Presentation Skills	3
	MT-212	Calculus & Analytical Geometry	3
	CS-311	Discrete Structures	3
	HM-212	Pakistan Studies	2

\* Deficiency courses for Fsc. Pre-Medical Students, shall not be counted in CGPA calculation

Course Code	Course Title	Pre-requisite	Credit Hours
3 <sup>rd</sup> Semester (Credit Hours-17)	CS-321	Object Oriented Programming	3
	CS-321L	Object Oriented Programming Lab	1
	CS-312	Software Engineering	3
	CS-323	Computer Networks	3
	CS-323L	Computer Networks Lab	1
	ST-211	Probability & Statistics	3
	MT-213	Linear Algebra	3

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
CS-324	Database Systems	None	3
CS-324L	Database Systems Lab	None	1
CS-321	Data Structures & Algorithms	CS-221	3
CS-321L	Data Structures & Algorithms Lab	CS-221L	1
SE-343	Software Requirements Engineering	CS-312	3
CS-313	Information Security	None	3
SS-211	Introduction to Sociology	None	3

4<sup>th</sup> Semester  
(Credit Hours-17)

Course Code	Course Title	Pre-requisite	Credit Hours
IT-351	Database Administration and Management	CS-324	3
IT-351L	Database Administration and Management Lab	CS-324L	1
IT-311	Information Technology Infrastructure	None	3
CS-325	Operating Systems	None	3
CS-325L	Operating Systems Lab	None	1
SE-341	Enterprise Systems	None	3
MG-211	Principles of Accounting	None	3

5<sup>th</sup> Semester  
(Credit Hours-17)

Course Code	Course Title	Pre-requisite	Credit Hours
EG-312	Technical & Business Writing	None	3
CS-391	Operations Research	None	3
IT-353	Virtual Systems and Services	CS-325	3
IT-353L	Virtual Systems and Services Lab	CS-325L	1
IT-352	System and Network Administration	CS-323	3
IT-352L	System and Network Administration Lab	CS-323L	1
	IT Elective – I		3

6<sup>th</sup> Semester  
(Credit Hours-17)

# Semester Wise Study Plan

Course Code	Course Title	Pre-requisite	Credit Hours
7 <sup>th</sup> Semester (Credit Hours-18)	IT-471	Final Year Project-I	3
	IT-321	Web Technologies	2
	IT-321L	Web Technologies Lab	1
	IT-312	IT Project Management	3
	IT-341	Cyber Security	3
		IT Elective – II	3
		IT Elective – III	3

Course Code	Course Title	Pre-requisite	Credit Hours
8 <sup>th</sup> Semester (Credit Hours-17)	IT-472	Final Year Project-II	3
	MG-213	Entrepreneurship	3
	HM-341	Professional Practices	3
		IT Elective – IV	3
		IT Elective – V	3



# Diploma in Information Technology

**Program Name:** Diploma in Information Technology

**Duration:** 1 Year (2 Semesters)

**Eligibility Criteria:** Intermediate with 45% Marks

Diploma in Information Technology has been designed to equip students with an integrated set of skills that will allow them to develop their professional careers in the field of Information Technology.

## Program Objectives

The Strategic objectives of Diploma in Information Technology Program are:

- To develop students with knowledge of basic IT and communication concepts.
- To familiarize students with IT applications, tools and technologies.
- To provide basis for future professional computer science education.

## First Semester - Spring (Credit Hours-17)

Course Code	Course Title	Pre-requisite	Credit Hours	Theory	Practical
IT-211	Introduction to Computers	None	3	2	1
IT-212	Office Automation	None	2	0	2
IT-221	E-Commerce and Digital Marketing	None	4	2	2
IT-213	Hardware and PC Maintenance	None	2	0	2

## Second Semester - Fall (Credit Hours-16)

Course Code	Course Title	Pre-requisite	Credit Hours	Theory	Practical
321	Database Management	CS-214	4	2	2
322	Computer Networks	None	4	2	2
331	Web Designing and Development	CS-214	4	2	2
332	Graphics and Multimedia Designing	None	3	1	2
471	Project	None	3	0	3



# Course Description

## Core Courses

### CS-221 Programming Fundamentals

This course is the first in the Introduction to Programming in C, but its lessons extend to any language you might want to learn. This is because programming is fundamentally about figuring out how to solve a class of problems and writing the algorithm, a clear set of steps to solve any problem in its class.

### CS-321 Data Structures & Algorithms

A data structure is a named location that can be used to store and organize data. And, an algorithm is a collection of steps to solve a particular problem. Learning data structures and algorithms allow us to write efficient and optimized computer programs.

### CS-322 Object Oriented Programming

This Specialization is for aspiring software developers with some programming experience in at least one other programming language (e.g., Python, C, JavaScript, etc.) who want to be able to solve more complex problems through objected-oriented design with Java. In addition to learning Java, you will gain experience with two Java development environments (BlueJ and Eclipse), learn how to program with graphical user interfaces, and learn how to design programs capable of managing large amounts of data.

### CS-311 Discrete Structures

Discrete mathematics forms the mathematical foundation of computer and information science. With this course students reach a certain level of mathematical maturity - being able to understand formal statements and their proofs; coming up with rigorous proofs themselves; and coming up with interesting results. The main topics of this course are (1) sets, functions, relations, (2) enumerative combinatorics, (3) graph theory, (4) network flow and matchings. It does not cover modular arithmetic, algebra, and logic, since these topics have a slightly different flavor and because there are already several courses on Coursera specifically on these topics.

### CS-312 Software Engineering

Software engineering is the branch of computer science that creates practical, cost-effective solutions to computing and information processing problems, preferentially by applying scientific knowledge, developing software systems in the service of mankind. This course covers the fundamentals of software engineering, including understanding system requirements, finding appropriate engineering compromises, effective methods of design, coding, and testing, team software development, and the application of engineering tools.

### CS-323 Computer Networks

This is an introductory course on computer networking. It focuses on explaining how the computer network works, ranging from how bits are modulated on wires and in wireless to application-level protocols. It also explains the principles of how to design networks and network protocols.

### CS-324 Database Systems

Database Management Essentials provides the foundation you need for a career in database development. This course emphasized database concepts, developments, use and management in three main sections: database concepts, practice, and emerging trends. Relational database systems are the main focus, but other types, including object-oriented databases, are studied. Practical design of databases and developing database applications using modern software tools will be emphasized.

### CS-313 Information Security

In this course you will explore information security through some introductory material and gain an appreciation of the scope and context around the subject. This includes a brief introduction to cryptography, security management and network and computer security that allows you to begin the journey into the study of information security and develop your appreciation of some key information security concepts.

### CS-325 Operating Systems

This course covers the fundamental operating system abstractions, mechanisms, and implementations, Concurrent programming (threads and synchronization), inter-process communication, and an introduction to distributed operating systems are at the heart of the course.

### IT-471-472 Final Year Project

The final year project is the culmination of the degree. It gives students a chance to demonstrate all they have learned. The project module is very different from other modules. Although students are supervised, the onus is on the student to define the problem boundaries, to investigate possible solutions, and to present the results in writing, verbally and in action.

### CS-342 Compiler Construction

The compiler is the programmer's primary tool. Understanding the compiler is therefore critical for programmers, even if they never build one. Furthermore, many design techniques that emerged in the context of compilers are useful for a range of other application areas. This course introduces students to the essential elements of building a compiler: parsing, context-sensitive property checking, code linearization, register allocation, etc. To take this course, students are expected to already understand how programming languages behave, to a fairly detailed degree. The material in the course builds on that knowledge via a series of semantics preserving transformations that start with a fairly high-level programming language and culminate in machine code.

# Course Description

## **CS-425 Comp. Organization & Assembly Language**

This course covers the principles of computer design and implementation, Instruction set architecture and register-transfer level execution, storage formats, binary data encoding, bus structure and assembly language programming.

## **CS-327 Digital Logic Design**

This course introduces the concept of digital logic, gates and the digital circuits. Further, it focuses on the design and analysis combinational and sequential circuits. It also serves to familiarize the student with the logic design of basic computer hardware components.

## **CS-343 Design & Analysis of Algorithms**

Introduction to fundamental techniques for designing and analyzing algorithms, including asymptotic analysis; divide-and-conquer algorithms and recurrences; greedy algorithms; data structures; dynamic programming; graph algorithms; and randomized algorithms.

## **CS-414 Parallel & Distributed Computing**

This course will cover widely used parallel and distributed computing methods, focusing on datacenter-scale distributed software and methods such as Hadoop, MapReduce, Spark, and distributed graph algorithms. We'll study the types of algorithms which work well with these techniques, and have the opportunity to implement some of these algorithms. We'll also look at the types of hardware architectures which have been developed along with these computing methods.

## **CS-426 Artificial Intelligence**

This course will introduce the basic principles in artificial intelligence. It will cover simple representation schemes, problem solving paradigms, constraint propagation, and search strategies. Areas of application such as knowledge representation, natural language processing, expert systems, vision and robotics will be explored.

## **CS-315 Theory of Automata**

Automata Theory is a branch of computer science that deals with designing abstract computing devices and automata, as well as computational problems that can be solved using them, so that all follow a predetermined sequence of operations automatically.

## **Supporting Courses**

### **IT-321 Web Technologies**

The World Wide Web is emphasized in this course as a platform for interactive applications, content publishing, and social services. The development of web-based applications necessitates knowledge of the underlying technology as well as the formats and standards on which the web is based upon.

## **IT-311 Information Technology Infrastructure**

This course introduces computer hardware/software and communication networks.

It provides students with the knowledge and skills they need to effectively communicate with professionals whose special focus is on hardware and systems software technology, as well as to design organizational processes and software solutions that necessitate an in-depth understanding of the IT infrastructure capabilities and limitations. It also prepares students for organizational roles that require interaction with external IT infrastructure component and solution vendors.

## **IT-351 Database Administration and Management**

Database administration is the function of managing the operational aspects of database systems and maintaining them. Database administrators work to ensure that applications make the most efficient use of databases and that physical resources are used adequately and efficiently. In this course, you will discover some of the activities, techniques, and best practices for managing a database. You will learn about configuring and upgrading database server software and related products.

## **IT-312 Information Technology Project Management**

The concepts and use of project management tools, techniques and methodologies are becoming all pervasive. Using the framework of project life cycle, the course covers various aspects pertaining to (i) project initiation, (ii) project planning and scheduling, (iii) project monitoring and control, and (iv) project termination.

## **IT-352 System and Network Administration**

This course introduces students to the common tasks performed by network and system administrators. You'll be exposed to basic network and system administration concepts and learn how to apply them in real-world scenarios.

## **IT-341 Cyber Security**

this course introduces the concepts and understanding of the field of computer security and how it relates to other areas of information technology. Topics include security threats, hardening systems, securing networks, cryptography and organizational security policies.

## **IT-353 Virtual Systems and Services**

In this course you gain the knowledge and skills to successfully install, configure, manage, and deploy virtual servers and workstations in your organization. You will learn how to choose the proper virtual machine product for your environment, partition servers to isolate applications, improve portability and migration, and create entire testing labs within a single PC.

# Course Description

## SE-341 Enterprise Systems

In this course we discuss what makes home computing systems different from enterprise computing systems. This course will cover how a computer security plays an important role in system management. At the end of the course, you will also be able to illustrate how different enterprise technologies play role in computing at an enterprise level. You will also be able to discuss the three pillars of the CIA triad and how they apply to enterprise systems.

## SE-342 Modeling and Simulation

This course will introduce the theories and applications of computer modeling and simulation, focusing on discrete event system modeling and simulation. It covers basic concepts of systems modeling, in-depth discussions of modeling elements, simulation protocols, and their relationships.

## SE-343 Software Requirements Engineering

This course is intended for software engineers, development and product managers, testers, QA analysts, product analysts, tech writers, and security engineers. Even if you have experience in the requirements realm, this course will expand your

knowledge to include new viewpoints, development styles, techniques and tools. In this course, students will be introduced to ways of eliciting requirements from stakeholders, how to analyze these requirements, conduct risk mitigation and analysis, prioritize requirements, document, and bring security concerns into the software lifecycle early on.

## SE-344 Formal Methods

Formal methods are a methodology for the specification, analysis and verification of system behavior, both software and hardware. Specification is the process of describing a system and the functions it is expected to perform, whether before, during, or after its design. Analysis and verification use the specification of a system to confirm whether it satisfies its expected properties and/or determine conditions under which it does.

## CS-391 Operations Research

Operations Research (OR) is a field in which people use mathematical and engineering methods to study optimization problems in Business and Management, Economics, Computer Science, Civil Engineering, Industrial Engineering, etc. This course introduces frameworks and ideas about various types of optimization problems in the business world. In particular, we focus on how to formulate real business problems into mathematical models that can be solved by computers.





# Course Description

## **MT-312 Multivariate Calculus:**

This course covers vector and multi-variable calculus. Topics include vectors and matrices, parametric curves, partial derivatives, double and triple integrals, and vector calculus in 2- and 3-space.

## **CS-417 Numerical Computing:**

The approach involves formulation of mathematical models physical situations that can be solved with arithmetic operations. It requires development, analysis and use of algorithms. Numerical computations invariably involve a large number of arithmetic calculations and, therefore, require fast and efficient computing devices.

## **University Elective Courses**

### **SS-211 Introduction to Sociology**

In this course, students analyze the influence of the social environment on behavior and social life using the sociological perspective. Components of social structure and culture are critically examined; inequalities based on factors such as age, gender, race, ethnicity, and social class are also examined.

### **SS-212 Introduction to Logic**

By taking Introduction to Logic and Critical Thinking you will improve your ability to identify, analyze, and evaluate arguments by other people (including politicians, used car salesmen, and teachers) and also to construct arguments of your own in order to convince others and to help you decide what to believe or do. These skills will help you determine when an argument is being given, what its crucial parts are, and what it assumes implicitly.

### **IT-352 System and Network Administration**

This course introduces students to the common tasks performed by network and system administrators. You'll be exposed to basic network and system administration concepts and learn how to apply them in real-world scenarios.

### **IT-341 Cyber Security**

this course introduces the concepts and understanding of the field of computer security and how it relates to other areas of information technology. Topics include security threats, hardening systems, securing networks, cryptography and organizational security policies.

### **IT-353 Virtual Systems and Services**

In this course you gain the knowledge and skills to successfully install, configure, manage, and deploy virtual servers and workstations in your organization. You will learn how to choose the proper virtual machine product for your environment, partition servers to isolate applications, improve portability and migration, and create entire testing labs within a single PC.

## **IT-311 Information Technology Infrastructure**

This course introduces computer hardware/software and communication networks.

It provides students with the knowledge and skills they need to effectively communicate with professionals whose special focus is on hardware and systems software technology, as well as to design organizational processes and software solutions that necessitate an in-depth understanding of the IT infrastructure capabilities and limitations. It also prepares students for organizational roles that require interaction with external IT infrastructure component and solution vendors.

## **IT-351 Database Administration and Management**

Database administration is the function of managing the operational aspects of database systems and maintaining them. Database administrators work to ensure that applications make the most efficient use of databases and that physical resources are used adequately and efficiently. In this course, you will discover some of the activities, techniques, and best practices for managing a database. You will learn about configuring and upgrading database server software and related products.

## **IT-312 Information Technology Project Management**

The concepts and use of project management tools, techniques and methodologies are becoming all pervasive. Using the framework of project life cycle, the course covers various aspects pertaining to (i) project initiation, (ii) project planning and scheduling, (iii) project monitoring and control, and (iv) project termination.

## **MG-211 Principles of Accounting**

Basic principles of financial accounting for the business enterprise with emphasis on the valuation of business assets, measurement of net income, and double-entry techniques for recording transactions. Introduction to the cycle of accounting work, preparation of financial statements, and adjusting and closing procedures.

## **MG-213 Entrepreneurship**

This course is designed to take you from opportunity identification through launch, growth, financing and profitability. The course will help to develop an entrepreneurial mindset and hone the skills you need to develop a new enterprise with potential for growth and funding, or to identify and pursue opportunities for growth within an existing organization.



## Alumna Message



### Jaweria Nabi Bakhsh (Batch-2018)

A journey of a thousand miles begin with just one step. Currently, I am serving at University of Gwadar as a Visiting faculty and as a Lab Assistant, the center which played a pivotal role in my life. Personally, I was an introverted girl who was just within herself and socializing always just remained a nightmare to me because I was limited to my boundaries but the environment of University of Gwadar has encouraged me to be the elite version of me, just like articulating my thoughts and stating my perceptions in the sight of plenty. I have the privilege of leading students in a well-ordered manner due to which I have been recommended as a Lab Instructor and a visiting lecturer in the University of Gwadar. I have initiated my university life as an average student, who did not owed any aims regarding studies. Entering in this institution as an ordinary student to the topper of my class by the grace of Almighty and this led me believe nothing is impossible. I pay my gratitude to the most high and secondly to the University of Gwadar for everything I am today. I look forward to contribute the best way I can. UG provides comprehensive guidance, insight and grooming to prepare solid foundation of your career. If anyone want to excel in their career in Gwadar I would recommend University of Gwadar.

## General Educational Courses

### ICT-221 Introduction to ICT

Overview of computer Systems hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases.

### EG-211 English Composition & Comprehension

In the course students will learn how to read carefully, write effective arguments, understand the writing process, engage with others' ideas, cite accurately, and craft powerful prose.

### EG-311 Communication & Presentation Skills

This course will helps you improve your professional communication in English for successful business interactions. The course focuses on a particular area of communication in English: writing emails, speaking at meetings and interviews, giving presentations, and networking online. Whether you want to communicate to potential employers, employees, partners or clients, better English communication can help you achieve your language and professional goals.

### EG-312 Technical & Business Writing

In the course you will learn how to write different technical reports, e.g., laboratory reports, research reports, design and feasibility reports, progress reports, consulting reports, etc. The course also approaches several language, structure, style, and content issues that you can encounter while reporting the results of your research.

### HM-341 Professional Practices

This course will review, through practice, the application of professional trade customs associated with the visual arts. The experience is intended to give students an understanding of production, procedures and business practices relevant to creative professionals. Students will learn the basics of managing creative practices such as design and/or illustrative work from initial client contact to project completion.

## Science & Mathematics Foundation Courses

### PHY-211 Applied Physics

This course equips the students with the applied concepts of the Physics. Course brushes the basic knowledge of students by starting from the basic concepts and then progresses gradually toward the advance concepts. By the course completion, students would have developed good understanding of Physics fundamentals.

### MT-212 Calculus & Analytical Geometry

The course emphasises the key ideas and historical motivation for calculus, while at the same time striking a balance between theory and application, leading to a mastery of key threshold concepts in foundational mathematics.

### MT-211 Basic Mathematics -I

Mathematics is a foundation course which is the science and study of quality, structure, space, and change.

# Course Description

## MT-213 Linear Algebra

The course will cover both basic theory and applications of linear algebra. Some of the important topics in this course include: systems of linear equations, vector and matrix operations, vector spaces, linear transformation, determinants, eigenvalues, and eigenvectors.

## ST-211 Probability & Statistics

In this course students will learn the basic concepts of statistics and the logic of statistical reasoning. Designed for students with no prior knowledge in statistics, its only prerequisite is basic algebra. Includes a classical treatment of probability.

## Information Technology Elective Courses

### SE-346 Human Computer Interaction

This course covers the principles of human-computer interaction and the design and evaluation of user interfaces. The course will cover World Wide Web design principles and tools, computer-supported cooperative work, multimodal and "next generation" interfaces, speech and natural language interfaces, and virtual reality interfaces.

### CS-353 Mobile Application Development

Mobile application development is the process to making software for smartphones and digital assistants, most commonly for Android and iOS. The software can be preinstalled on the device, downloaded from a mobile app store or accessed through a mobile web browser. The programming and markup languages used for this kind of software development include Java, Swift, C# and HTML5.

### CS-356 Multimedia Technologies

In this course, you will learn the principles of video and audio codecs used for media content in iTunes, Google Play, YouTube, Netflix, etc. You will learn the file formats and codec settings for optimizing quality and media bandwidth and apply them in developing a basic media player application.

### CS-357 Web Engineering

The course will cover the structure and functionality of the world wide web, creation of dynamic web pages using a combination of HTML, CSS, and JavaScript, apply essential programming language concepts when creating HTML forms.

### SE-441 Data Warehousing

A data warehouse is a type of data management system that is designed to enable and support business intelligence (BI) activities, especially analytics. Data warehouses are solely intended to perform queries and analysis and often contain large amounts of historical data.

### CS-424 Wireless Networks

The course addresses the fundamentals of wireless communications and provides an overview of existing and emerging wireless communications networks. It covers radio propagation and fading models, fundamentals of cellular communications, multiple access technologies, and various wireless networks, including past and future generation networks.

## Alumnus Message



**Abdul Aziz  
(Batch-2018)**

I am Abdul Aziz IT Graduate From Gwadar University. Initially, when I joined Gwadar University, I wasn't expecting that it is going to be herald of wisdom for me but after joining, It completely changed me educationally and morally. Teachers were so much friendly and knowledgeable Which connected me to the the environment of university. It drastically changed our mentality and gave us so much Knowledge to pursue our academic endeavors. I am astonished by the wisdom and knowledge I got from this University. Achieving IT Degree was one of my desires and dreams and It imparted So much technical Knowledge To Embark on my further educational journey in the future and equipped me to be ready for the upcoming challenges that come ahead. It was a proud moment for me to get my first job as Coach At Digiskills.pk And contribute for the best service of my people and nation.

# Course Description

## **CS-358 Artificial Intelligence**

In this course you will learn what Artificial Intelligence (AI) is, explore use cases and applications of AI, understand AI concepts and terms like machine learning, deep learning and neural networks. You will be exposed to various issues and concerns surrounding AI such as ethics and bias, & jobs, and get advice from experts about learning and starting a career in AI. You will also demonstrate AI in action with a mini project.

## **CS-454 Machine Learning**

Machine learning is the science of getting computers to act without being explicitly programmed. In this course , you will learn about the most effective machine learning techniques, and gain practice implementing them and getting them to work for yourself. More importantly, you'll learn about not only the theoretical underpinnings of learning, but also gain the practical know-how needed to quickly and powerfully apply these techniques to new problems.

## **CS-359 Network Design and Management**

This course will prepare students to design and manage various aspects of organizational network. Network design refers to the planning of the implementation of a computer network infrastructure. While Network management is the process of administering and managing computer networks.

## **CS-411 Introduction to Data Science**

This course will introduce you to what data science is and what data scientists do. You'll discover the applicability of data science across fields, and learn how data analysis can help you make data driven decisions.

## **CS-341 Cloud Computing**

This course introduces you to the core concepts of cloud computing. You gain the foundational knowledge required for understanding cloud computing from a business perspective as also for becoming a cloud practitioner. You understand the definition and essential characteristics of cloud computing, its history, the business case for cloud computing, and emerging technology usecases enabled by cloud. We introduce you to some of the prominent service providers of our times (e.g. AWS, Google, IBM, Microsoft, etc.) the services they offer, and look at some case studies of cloud computing across industry verticals.

## **CS-412 Block Chain Technology**

In this first course of the specialization, we will discuss the limitations of the Internet for business and economic activity, and explain how blockchain technology represents the way forward. After completing this course, you will be able to explain what blockchain is, how it works, and why it is revolutionary. You will learn key concepts such as mining, hashing, proof-of-work, public key cryptography, and the double-spend problem. You'll be able to describe seven design principles for blockchain technology, and the challenges facing the people developing it. You'll also meet the players in the blockchain ecosystem, and consider your own role in stewarding the blockchain revolution.

## **CS-413 Internet of Things**

Internet of Things (IoT) origin, vision and definition. Application domains, use case scenarios and value propositions. Functional blocks of IoT systems: devices, communications, services, management, security, and application. Architectural reference model and design methodology. IoT Devices: sensors, actuators and embedded systems. Communications aspects of IoT systems: Internet infrastructure; wireless local area networks; radio access networks; wireless personal area networks; wireless sensor networks; wireless communication in vehicular environments; 5G. Current IoT frameworks and underlying architectures. Data storage and analytics. Web services. IoT system management tools. Security aspects of IoT systems. Open issues.





## OFFICE OF THE STUDENT AFFAIRS

### Ms. Sadia Naseer

Incharge Student Affairs

M.Phil in Education (AKUED Karachi, PK)

Student Support Services (SSS) are the important components for students that stimulate and support students at university of Gwadar. SSS are the hub of all academic and non-academic activities and student centered services to maximize student potential by polishing their talents and skills, evolving them to participate and represent inside and outside university across the globe.

- The respective office offers counselling services that assist, guide and help to address the challenging areas of one's life in both socially and academically.
- Provide quality activities, programming that facilitate leadership skills to make an outstanding and productive impact through living-learning experiences.

While we believe in the highest standards of academic excellence, the office of student Affairs at university of Gwadar is all about grooming the students to become true educators and good advisors at all perspectives.







## OFFICE OF THE FINANCEIAL AID

**Engr. Shayhaq Ali**

Incharge Financial Aid

**Fiancial Aid Office Team**

- **Mr. Nizam Nizar**

Junior Clerk

### Introduction

Financial Aid Office, University of Gwadar, is established in order to facilitate talented and less privileged students for grant of scholarship on merit and need based. Mr. Shayhaq, Lecturer Department of Computer Science, is the current Focal Person of the Office of Financial Aid & Scholarships, University of Gwadar. This Office is dealing with multiple Need Based and Merit Based Scholarships. Currently the office is dealing with four major Scholarship programs including HEC Need Based Scholarship, Ehsaas Undergraduate Scholarship Project, Baluchistan Education Endowment Fund (BEEF) and Pakistan Bait-UI-Maal. Under The HEC Need Based Scholarship program, the office has provided 30 Scholarship to the students from session 2019 to 2021, These Scholarships were provided to the bachelor students of various disciplines within the UG. Under Ehsaas Undergraduate Scholarship Project, the office has provided 150 scholarship to BS students of various discipline from 2019 to 2020. Moreover, under Baluchistan Education Endowment Fund Merit Based Scholarship program, 100 students were awarded scholarships of announced policy of 2019 to 2021. Furthermore, Pakistan Bait-UI Mall has provided 25 scholarships to needy students so far.





## OFFICE OF THE PROVOST

**Mr. Hafeezullah**

Provost

### Provost Office Team

- **Mr. Nizam Nizar**

Assistant

## Student Accommodation

University of Gwadar has students from all over Makran who are enrolled in different programs. Some of the students are not resident of Gwadar City. For them, University of Gwadar has hostels for boys and girls with all basic needs and comfort in the campus. Each hostel has its own working staff and high-speed internet which is partially supported by the University. There are security guards deployed at each hostel, and a female provost for the girl's hostel.







## OFFICE OF THE QEC

### **Dr. Kamber Farooq**

Director QEC (Acting)

## QEC Office Team

- **Ms. Shehnaz Noor**

Depty Director QEC

- **Mr. Ali Akber**

Computer Operator

### **About Us**

The Quality Enhancement Cell (QEC) is established at the University of Gwadar to create a culture of self-evaluation and quality consciousness among its stakeholders, recognizing the fact that continuous evaluation and appraisal of oneself is the basic ingredient of growth and improvement in any individual or organization. The main objective of this section is to ensure not only to meet the basic quality standards and protocols set by the Higher Education Commission (HEC) but to strive to create a unique and admirable place among all the higher educational institutions of Balochistan.

The QEC of the University of Gwadar endeavors to achieve these objectives by engaging all the stakeholders on a regular basis, carrying out self-evaluation exercises as per standards set by HEC, establishing a friendly and reliable communication system with the concerned departments, and providing feedback and guidelines to them to fill the gaps and take corrective actions or initiatives, for the purpose of quality improvement as well as for growth and betterment of the educational system in the institution.

The QEC, being aware of the increasing challenges faced by educational institutions globally as well as within Pakistan, strives to assist the management in bringing appropriate changes in the system or devising new systems to cope with the challenges. Achieving these objectives is possible only when full cooperation is received from all stockholders, especially from the academic departments and faculty, who are the ones taking practical steps and measures to ensure compliance with quality standards. We, therefore, look forward to getting maximum support and cooperation from both the administration and academic sides to achieve our institutional goals and objectives.

### **Vision**

Our vision is to transform the University of Gwadar into a highly quality-conscious institution of higher education, fully concentrating on meeting HEC's quality protocols and international quality standards.

### **Mission**

Our mission is to help the academic departments and administration in setting quality standards for all functions of the University of Gwadar, keeping in view the quality guidelines of HEC, as well as the national and international trends in the field of higher education and to ensure compliance of the same through continuous engagement with all stakeholders. We aim to deliver quality education to our students and to enable an atmosphere of creativity for new ideas to thrive.

## Functions of Quality Enhancement Cell

According to the Higher Education Commission of Pakistan, the following are the main functions of the Quality Enhancement Cells:

1. The Quality Enhancement Cell (QEC) is to be headed by the Director QEC and will be reporting directly to the Vice-Chancellor. QEC is to be the correspondent with the outside bodies.
2. QEC is responsible for promoting public confidence that the quality and standards of the award of degrees are enhanced and safeguarded.
3. QEC is responsible for the review of quality standards and the quality of teaching and learning in each subject area.
4. QEC is responsible for reviewing academic affiliations with other institutions in terms of the effective management of standards and quality of programs.
5. QEC is responsible for defining clear and explicit standards as points of reference for the reviews to be carried out. It should also help the employees to know what they could expect from candidates.
6. QEC is responsible for applying Pakistan Qualification Framework for curriculum development.
7. QEC is responsible for developing program specifications. These are a standard set of information clarifying what knowledge, understanding, skills, and other attributes a student will have developed on successfully completing a specific program.
8. QEC is responsible for developing quality assurance processes and methods of evaluation to affirm that the quality of provision and the standard of awards are being maintained and to foster curriculum, subject, and staff development, together with research and other scholarly activities.
9. QEC is responsible for ensuring that the university's quality assurance procedures are designed to fit in with the arrangements in place nationally for maintaining and improving the quality of Higher Education.
10. QEC is responsible for developing procedures for the following:
  - \* Approval of new program
  - \* Annual monitoring and evaluation, including program monitoring, faculty monitoring, and student perceptions
  - \* Departmental review
  - \* Student feedback
  - \* Employer feedback
  - \* Quality Assurance of Master's, M. Phil and PhD degree programs
  - \* Subject review
  - \* Institutional assessment
  - \* Program specifications
  - \* Qualification framework





## Mr. Saghir Naseem

Incharge ORIC

MS in Management Science (SZABIST Karachi, PK)

### Introduction

Higher Education Commission (HEC) intends to create and sustain a dynamic and internationally competitive research sector in Pakistan that contributes significantly to economic prosperity, national well-being, and knowledge expansion and dissemination. One of the HEC's primary strategic goals is to promote research.

The HEC's program and initiatives for strengthening research and the process of knowledge creation have resulted in remarkable improvements in the quality and quantity of research output from the country's universities and institutes, and Pakistan has been recognized as a rising star in a number of research disciplines in terms of percentage increase in internationally cited research publications.

The office of research innovation and commercialization (ORIC) at the University of Gwadar was established in accordance with the Higher Education Commission's (HEC) goals of making a significant contribution to economic prosperity, national well-being, and knowledge expansion.

### Mission

The Office for Research's mission is to develop, expand, improve, and manage the university's research programs, as well as to link research activities directly to the university's and the broader community's educational, social, and economic priorities. The office is also in charge of ensuring that the quality of research meets the highest international standards and elevates the university's standing among the world's best research institutions.

Furthermore, the office aspires to be the best research Centre in the region, as well as to establish and maintain productive relationships and linkages with governmental agencies, international academic and governmental agencies, private sectors, industries, elementary and secondary schools, and colleges. Furthermore, the office's core values would remain innovation and idea generation, patents, and innovation.

The Office of Research is responsible for ensuring that all research programmes and policies reflect the core values of academic freedom, professional integrity, and ethical conduct, as well as full compliance with all university policies, legal requirements, and operational standards.

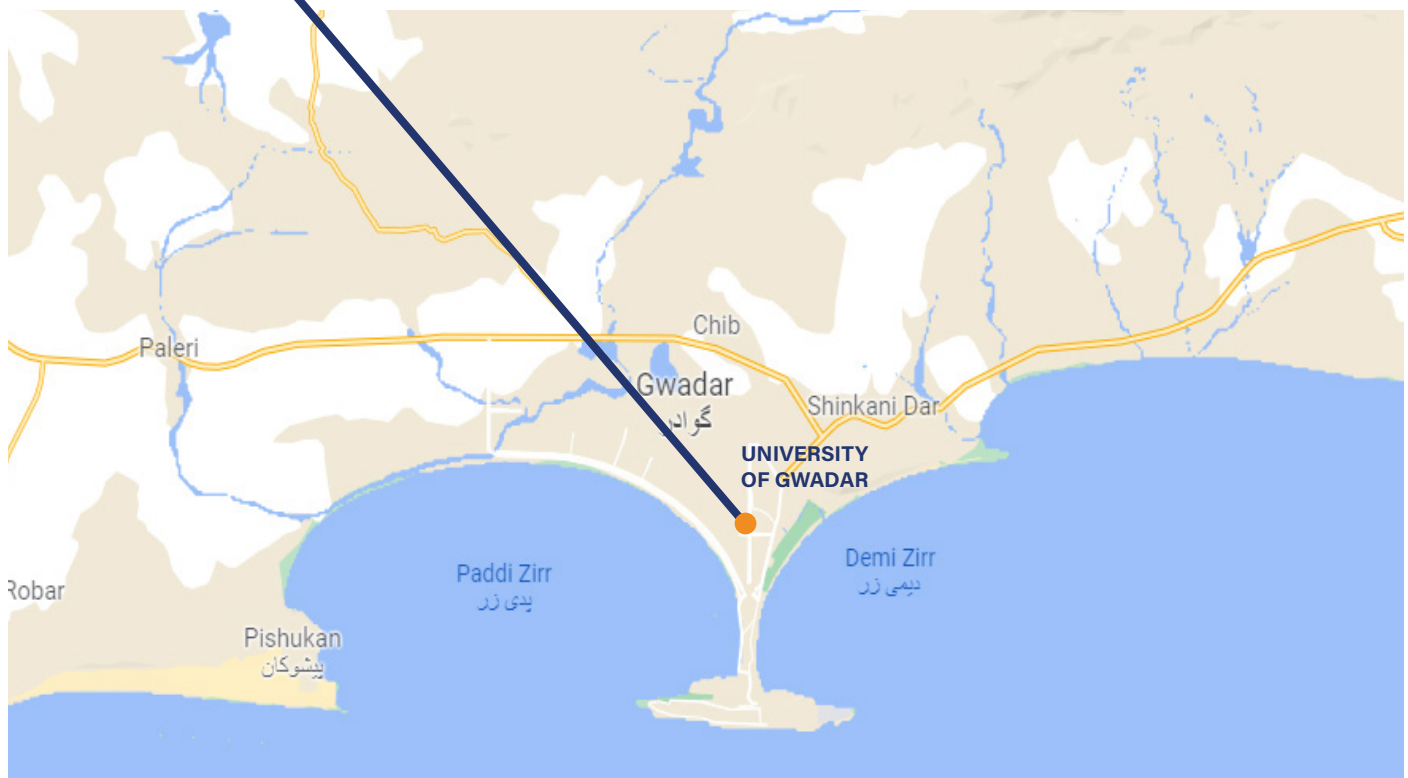
### Goals

The main objectives of the ORIC at UG are as follows:

- To develop and implement the university's strategic research direction and policies.
- Expanding and diversifying research funding.
- To foster an environment in which research continues to be an important component of academic activities at UG.
- Ensure that high-quality research that is directly relevant to Pakistan's needs is conducted.
- To make it easier to establish connections between UG and industry.
- Informing faculty and students about available research funding opportunities.
- To encourage and assist UG researchers/faculty in obtaining research grants from the public and private sectors.
- Assist in the timely completion of funded research and development projects.
- Maintain effective and productive communication channels with funding agencies.
- Facilitate and support UG researchers in the publication and presentation of their research work through participation in research activities in order to meet industry needs.

## HOW TO GET TO UNIVERSITY OF GWADAR

From Gwadar city, follow the Jinnah Avenue till you reach at roundabout of GDA mosque, turn left and follow Pishukan Avenue. On two minutes drive there is another roundabout near Allama Iqbal Open University, then turn right, Gwadar University is in right at one minutes drive.





# DISCLAIMER

The University of Gwadar makes all reasonable efforts to offer the academic program and other services and facilities specified in this prospectus in the way they were described at the time of printing. However, the University reserves the right to make modifications deem as necessary.

The University also has the right to adjust admissions standards, course scheduling, degree requirements, and other student restrictions. These rules apply to all students, existing and incoming, and are decided by University policy. In case of discrepancy between the prospectus and the institution's policies or program are resolved by university judgement. The prospectus is not part of any contract between the University and individual.

## Undergraduate Prospectus Committe

### Editor-In-Chief:

Prof. Dr. Abdul Razzaq Sabir (TI)

### Editor:

Mr. Dolat Khan

### Associate Editor:

Mr. Muhammad Akram

### Sub-Editor & Designer:

Mr. Nasir Ali Kalmati

### Photographer:

Mr. Aamir Imam Bakhsh

**For further information & updates, please contact or visit website:**

**The admission office, University of Gwadar, Balochistan**

Gwadar-91200, Balochistan, Pakistan.

Tel: (086) 4410090, Fax: (086) 4410090, Email: admissions@ug.edu.pk

<https://www.facebook.com/uogwd>

<https://twitter.com/uniofgwd>

<https://www.ug.edu.pk>

<https://www.instagram.com/uniofgwd>

**Published and Issued By**

University of Gwadar, Gwadar Balochistan



# PROSPECTUS

## Bachelore's Degree Programs



086-4410090



info@ug.edu.pk



Sarawan Avenue, New Town  
Phase IV, Gwadar



www.ug.edu.pk

