

Report on SDG17

Partnerships For The
Goals

GUST
2022



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**Gulf University for
Science and Technology
2022**

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Introduction

Internationally it has been discussed that it is necessary that there are changes to ensure a future for all people, therefore a global action plan was made with the purpose of improving the conditions of people and the planet seeking the prosperity of the entire world population, thus the 2030 agenda that proposes for all governments of the world 17 objectives with which to improve food, humanitarian, social and environmental conditions in the world, all this to reach a sustainable society in a period of time of 15 years.

The agenda aims to create a safe and adequate world for future generations, universal food coverage, education, equality, and a clean and prosperous environment, this long-term goal was determined by 193 countries in September 2015, the interconnections and integrated nature of the Sustainable Development Goals (SDGs) are of crucial importance in ensuring that the purpose of the 2030 Agenda is respected. If we achieve it, everyone's lives will be profoundly improved and our world will change for the better.

In adopting it, states committed to mobilize the means necessary for its implementation through partnerships with a special focus on the needs of the poorest and most vulnerable. The 17 SDGs of the 2030 Agenda were developed during more than two years of public consultations, interaction with civil society and negotiations between countries. The Agenda implies a common and universal commitment, however, as each country faces specific challenges in its pursuit of sustainable development, states have full sovereignty over their wealth, resources and economic activity, and each will set their own national targets in line with the Agenda.

Goal 10 is directly related to reducing inequalities and ensuring equal opportunities irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status among countries to achieve social welfare worldwide.

Gulf University for Science and Technology (GUST) thrives towards achieving goal 10 as a part of the Kuwait Society by applying anti-discrimination and anti-harassment policies for staff and students, treating its students, staff and faculty equally and that includes the Bedoon (without nationality) who are stateless people that are found in several Middle Eastern countries, particularly in Kuwait to ensure there is no gender inequality nor income gap, and providing accessible facilities, support services, and access schemes for people with disabilities.

SDG17: Partnerships For The Goals

The high ambition of the SDGs revolves around strong global cooperation and partnerships.

Inclusive partnerships are necessary for a successful sustainability agenda. These partnerships built on principles and values, a shared vision and common goals that put people and planet at the center are needed at global, regional, national and local levels.

Many countries need official development assistance to support their growth and trade. However, aid flows are declining and many donor countries are not meeting their development funding commitments.

Due to the COVID-19 pandemic, the global economy is expected to experience a sharp contraction of 3% in 2020, its worst recession since the Great Depression.

Strong international cooperation is needed more than ever to ensure that all countries have the means to recover from the pandemic, build back better and achieve the Sustainable Development Goals.

Publish progress against SDG9: Industry, Innovation and Infrastructure

Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities by 2030. GUST has implemented new strategies in the field of industry, innovation and infrastructure in order for society to develop even more.

GUST Activities and Collaborations (Academic year 2020/2021)

KFH enhances cooperation with GUST to support students

Acting Group CEO at Kuwait Finance House (KFH), AbdulWahab Essa Al-Roshood emphasized the significance of cooperating with academic institutions, holding strategic partnerships with them in the

field of internships, enhancing graduates capabilities, recruiting distinguished youth to work at KFH, exchanging researches, supporting students conferences and clubs and other aspects of cooperation. He indicated that these activities would stand as an added value for both parties, enhance KFH position and strengthen the role of educational institutions in growth and development.

A meeting held between KFH delegation and the officials of Gulf University for Science and Technology (GUST). KFH delegation comprised Acting Group CEO, AbdulWahab Essa Al-Roshood, Group Chief HR Officer Ziad Abdullah Al-Omar and Group DGM- Public Relations and Media, Yousef Al-Ruwaieh. The GUST team comprised the Chairman of Trustees, Nawaf Erhama, Acting Chairman for Academic Affairs, Professor Doctor Bassam Alamuddin and the Manager – students recruitment center, Dr. Fatima Al-Hashem.

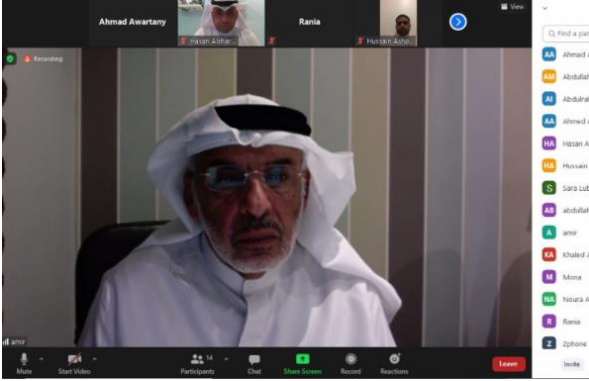
Al-Roshood indicated, during the meeting, that the partnership with GUST aims to qualify students and give them the required skills to work in the banking sector, train national labor in the required fields and refurbish their skills in highly significant fields e.g. risk management, digitalization and cyber security.



PACE at GUST Collaborates with KIF

Professional Advancement & Continuing Education Center (PACE) at GUST launched a program with the Kuwait Insurance Federation (KIF), titled “Integrated Insurance Training Program”. With the goal of enhancing insurance awareness in Kuwait. The program was targeted towards fresh graduates who are keen in joining the insurance industry, or newly hired employees of insurance companies [2].

The Training Program consisted of 14 training courses with 21 professionals trained on Insurance Risk Management and Re-Insurance. The training program was provided by experts working in the industry to ensure trainees get the most up to date and relevant experience. The training program covers a wide range of subjects that have become increasingly important to the insurance industry, such as. re-insurance, claims management, motor and medical insurance, marine insurance, fire insurance, and some areas of interest. The “Integrated Insurance Training Program” is a part of PACE’s mission to bring the best courses for continuing education, training, and professional development for the GUST community but also in Kuwait.



Acting VP for Professional Development and Community Services, Dr. Ahmad Al-Darbas said “The collaboration with KIF helps promote PACE at GUST and its goal to bring the best training programs for leading professionals in Kuwait. It brings a more diversified range of opportunities to GUSTs community. We hope this can be the foundation of a great relationship with KIF in the years to come. I would also like to thanks KIF Chairman, Mr. Khaled Soud Al-Hassan, and Secretary General at KIF, Mr. Adel Al-Romieh.”

This is a fitting addition to the standard courses PACE offers such as, prepatroy exams for the CFA, CPA, CMA, and GMAT, but also offer other courses such as Healthcare Management, Project Management, and a General English Program.

GUST Hosts 22nd Annual Career Fair

Gulf University for Science and Technology (GUST) held its 22nd Annual Career Fair virtual for current GUST students and alumni to attend. The event, which hosted 33 different companies from various sectors, aimed at connecting GUST students and alumni with potential career opportunities. The Career Fair was held virtually on Khibra, a Kuwait-based platform that offers employment services for university graduates in the Middle East [3].

The businesses sponsoring this year’s event included Diamond Sponsors: Kuwait Finance House, Boubyan Bank, and Alghanim Industries, Platinum Sponsors: Kuwait International Bank, Gold Sponsors: Warba Bank and Dhaman Health, and In-Kind Sponsors Deliveroo. 27 companies participated at the event from a wide range of business sectors which included: Gulf Insurance Group, Pencilvent, KNET, Kuwait Oil Company, and Coded. Additionally, Virigin Mobile made their first appearance ever at this year’s Career Fair.

The Career Fair is one of the most prominent events the university organizes each year as it helps ensure a smooth transition for students into the work force after graduation. GUST continuously works on improving the event by providing a wide variety of different employers to cater to graduates’ interests and talents. The event was divided into two days of group sessions and seminars as well as 1-on-1 sessions where individuals could meet with prospective employers virtually to network with and apply for possible internships or full time positions.

Partnering with Khibra will provide students with an efficient and streamlined experience in finding the right job opportunity using detailed analytics, providing GUST with an event hosting platform that will bridge employers and alumni. Khibra partners with more than 140 employers to access the latest entry-level opportunities in the market allowing students and graduates search for and apply to their job of

choice. For GUST, Khibra’s event management tool allows the university to extend virtual career fairs, informational sessions, and 1-on-1 invitations to interested employers. Such capabilities enable GUST to expose its students to opportunities during and after their academic experience. The features also allow GUST to conduct surveys to gather feedback from participating employers about its students and young alumni.

The Computer Science Department Hosts Mr. Bashar Alostad

The Computer Science Department at GUST hosted Mr. Bashar Alostad the Head of Partnerships at Zyda, an e-commerce SaaS platform. The seminar took place on Microsoft Teams on April 5th and was targeted at Computer Science students, attending CSC404- an Introduction to E-commerce course. The seminar was an hour-long with Mr. Bashar sharing his experience with Zyda during the pandemic, followed by a Q&A session [4].

Zyda is an e-commerce SaaS platform that helps restaurants create an online presence. They take restaurants with little to no online presence, and help them adapt, thereby allowing them to succeed during the pandemic. Mr. Alostad explained that restaurants could launch their website with Zyda within 24 hours with no commission taken. As a result of this model, Zyda went from launching 30 restaurant websites in 2018 to 2000 for all of Kuwait, the GCC, and Egypt in 2020. This has led to the overall growth and profit of many restaurants who have linked their social media accounts with their websites allowing for a larger audience to be reached. Mr. Alostad also explained that prior to the COVID-19 pandemic, online food delivery in the region was limited to a certain number of platforms that took large commissions. Zyda’s benefited from the implementation of curfews and lockdowns, which allowed for more restaurants to subscribe to them.



Assistant Professor of Computer Science, Dr. Israa Hussein, said “Having someone of Mr. Bashar Alostad’s stature come speak is an honor. He has achieved so much as Head of partnerships at Zyda, and we are grateful to have him share his experience with us. Our students will see the real life outcomes of working in e-commerce and how it is a leading and vital industry not just during the global pandemic but in the coming years as well.”

The talk was titled “COVID-19’s Effect on E-commerce in Kuwait” putting an emphasis on how a Kuwaiti e-commerce startup has succeeded from a technical and business perspective due to the global pandemic. Students of the CSC404 class attended the seminar as an opportunity to learn from real life stories such as Zyda. More importantly, giving students vital access to key individuals like Mr. Bashar Alostad and his knowledge, enriching their learning experience.

Students Club Events for Academic year 2020-2021

[5]

1. Bayan club

Topics	Description	PLATFORM	Others
Build your future	workshop Presenter: Dr.Ahmad Rajab (Professor at GUST). .Trainer: Mr.Jack Montgomery , the students weretaught how to write their resumes, how to use literature as a technique to make it attractive, and what can be done to enhance the resume.	Microsoft teams	Workshop
cultural voice of youth.	A seminar with guest: Mohammed Al-Mutawa, this seminar aimed to explore the cultural organizations in Kuwait, in order to make our students aware of this movement, its challenges, how to establish a cultural organization, and how to succeed.	Instagram live	Seminar

4. Technology Club

Topics	Description	PLATFORM	Others
Interview with IT department	They explained how their work was affected by COVID-19 and the improvements they made to GUST system during this pandemic.	Live Instagram @techgust	Seminar

5. Marketing Club

Topics	Description	PLATFORM	Others
The extent of the labor market's need for marketing personnel in the presence of electronic or digital applications	The seminar talked about the future of marketing and the use of digital applications while keeping in mind the use of marketing personnel, are people that important when it comes to marketing or will applications fully take over?	Instagram Live (@marketingust)	Seminar

GUST for SDGs specific researches on sustainability

- Haider Syed, Mohammad, et al. "An artificial intelligence and NLP based Islamic FinTech model combining Zakat and Qardh-Al-Hasan for countering the adverse impact of COVID 19 on SMEs and individuals." (2020) [6].
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- O’Connell, Vincent, et al. "The Impact of R&D Innovation Success on the Relationship between R&D Investment and financial leverage." *Journal of Open Innovation: Technology, Market, and Complexity* 8.3 (2022): 129 [12].

Education for SDGs specific courses on sustainability

Have dedicated courses (full degrees, or electives) that address sustainability and the SDGs.

Courses Related To SDGs

CAS = Collage of Arts and Sciences, CBA = Collage of Business Administration [13]

Collage	Course
CAS	CSC 101 Introduction to Computer Science 3.00 Prerequisite: (ENGL 100 pre or co) CS & MIS students can take course only before finishing 45 credits. Introduction to computer science and programming. Topics include information and data representation, hardware, programming methodology, algorithm design, abstract data types, programming language, operating systems, applications and communications.
CAS	CSC 102 Application Development for Beginners 3.00 Prerequisite: (ENGL 100 pre or co) . CS & MIS students can take course only before finishing 45 credits. Introduction to application development. Topics include: basics of problem solving techniques, game programming, mobile applications.
CAS	CSC 122 Introduction to Computer Programming 3.00 Prerequisite: ENGL 098/100/110/112 & CS student An introductory course to problem solving and computational thinking using computer programming. Topics include: problem solving fundamentals, programming basics, variables and expressions, input/output, control structures, functions, strings and files.
CAS	CSC 123 Fundamentals of Web Design 3.00 Prerequisite: ENGL 100 coreq Web design practices using modern technologies. Topics include: Website basic elements, Web page design, creating site content, and launching a web site.

CAS	CSC 125 Object Oriented Programming I 3.00 Prerequisite: CSC 122 Programming fundamentals from an object oriented design perspective. Topics include: basic procedural concepts, objects, classes, interface, methods, encapsulation, information hiding, and inheritance.
CAS	CSC 225 Programming and Data Structures 3.00 Prerequisite: CSC 125 Advanced programming techniques using data structures. Topics include recursion, lists, stacks, queues, trees, graphs, and hash tables.
CAS	CSC 226 Object Oriented Programming II 3.00 Prerequisite: CSC 225 coreq Object oriented analysis, design, and advanced programming concepts. Topics include: polymorphism, abstract classes, interfaces, exception handling, graphical user interface, and modelling notations.
CAS	CSC 230 Digital Systems 4.00 Prerequisite: CSC 125 Introductory course in digital logic and its specification and simulation. Number systems. Binary arithmetic. Boolean algebra. Combinational logic design. Sequential logic design (controllers). Data Path components (e.g. Registers, adders, register files , etc.). Memory components (e.g. RAM, ROM). Register transfer level (RTL) design.
CAS	CSC 235 Programming Challenges 3.00 Prerequisite: CSC 225 Practicing advanced problem solving techniques: arrays, stacks, queues, strings, sorting, arithmetic, algebra, combinatorics, number theory, backtracking, geometry, graphs algorithms and traversals. Introduction to dynamic programming, preparing students majoring in computer science for international and regional ACM programming contests.
CAS	CSC 270 Computer Systems: Architecture and Organization 3.00 Prerequisite: CSC 230 Computer architecture and organization. Topics include performance evaluation, instruction, set architecture, data path, control unit, pipelining, memory hierarchy, storage, and other I/O topics.
CAS	CSC 271 Computer Systems: Programming 3.00 Prerequisite: CSC 270 Introduction to systems programming in Unix/Linux environment. Topics include scripting, libraries, utilities, development tools, piping, binary files, exception handling, command-line arguments, and symbolic debugging.
CAS	CSC 275 Advanced Programming with Unix 3.00 Prerequisite: CSC 225 as prerequisite or corequisite Exploration of the Unix operating system, including its tools and utilities for program development, such as makefile, piping and redirection, shell scripts, regular expressions, and symbolic debuggers. In addition, this course explores advanced features of the C programming language, including various file processing, command-line and variable arguments, exception handling, and generic interfacing.
CAS	CSC 290 Data Science 3.00 Prerequisite: CSC 125 & MATH 221 Introduction to Data Science. Topics include data acquisition, data management, data preparation and integration, data analysis, model development and deployment, and visualization.
CAS	CSC 300 Discrete Structures 3.00 Prerequisite: CSC 125 & MATH 140 This course introduces discrete structures. Topics include: basic logic, sets, relations, functions, proof techniques, counting methods, recursion, trees and graphs.
CAS	CSC 301 Web Application Development 3.00 Prerequisite: CSC 226 & 361 coreq Introduction to web development. Topics include client/server side scripting, dynamic websites, web services, database connectivity, security, and authentication.
CAS	CSC 313 Design and Analysis of Algorithms 3.00 Prerequisite: CSC 225 & 300 Design & analysis of recursive and non-recursive algorithms. Topics include asymptotic analysis of algorithm efficiency, algorithm design techniques (e.g. divide-and-conquer, dynamic programming, greedy approaches) and their applications to computational problems, and introduction to parallel algorithms.
CAS	CSC 313 Design and Analysis of Algorithms 3.00 Prerequisite: CSC 225 & 300 Design & analysis of recursive and non-recursive algorithms. Topics include asymptotic analysis of algorithm efficiency, algorithm design techniques (e.g. divide-and-conquer, dynamic programming, greedy approaches) and their applications to computational problems, and introduction to parallel algorithms.
CAS	CSC 326 Object Oriented Design Patterns 3.00 Prerequisite: CSC 226 In-depth study of object-oriented design patterns. Topics include: creational patterns, structural patterns, and behavioral patterns. Pattern's intent, motivation, applicability, participants, collaborations, consequences, and implementations.



CAS	CSC 350 Software Engineering 3.00 Prerequisite: CSC 226 Introduction to software engineering. Topics include software development life cycle, software processes, requirements engineering, software architecture and design, software testing, software evolution, and software modeling using UML.
CAS	CSC 404 Introduction to eCommerce 3.00 Prerequisite: CSC 361 Pre or co-requisite Introduction to eCommerce. Topics include electronic data interchange, digital currency, electronic catalogs, telecommunications infrastructure, data warehousing, software agents, storage retrieval, cryptographic techniques, and different levels of security.
CAS	CSC 428 Program Translation Techniques 3.00 Prerequisite: CSC 226 & 270 Principles and techniques for designing and implementing a compiler. Topics include lexical analysis, parsing techniques, syntax-directed translation, intermediate languages, and code generation.
CAS	CSC 430 Artificial Intelligence 3.00 Prerequisite: CSC 313 Survey of artificial intelligence techniques. Topics include search, logic, knowledge representation, reasoning with uncertainty, learning, and other AI techniques.
CAS	CSC 444 Digital Image Processing 3.00 Prerequisite: CSC 226 & MATH 140 & 221 Introduction to digital image processing. Topics include Digital image fundamentals, intensity transformations, and spatial filtering, filtering in frequency domain, Image restoration and reconstruction, Color image processing, Image compression, and Image segmentation.
CAS	CSC 451 Capstone Project 3.00 Prerequisite: CSC 350 & CSC 361 & PHIL 245 The senior capstone course provides computer science students the opportunity to employ knowledge gained from courses throughout the curriculum to develop a software solution to a real-world problem from conception to completion. Students work in teams to develop software applications. Advanced methods related to requirements analysis, software design, project management, documentation and testing, programming techniques, and database designs will be applied on an incremental basis since the emphasis is on semester-long capstone team projects.
CAS	CSC 456 Software Development Processes 3.00 Prerequisite: CSC 350 or CSC 452 This course is an in-depth study of software development processes in the context of an actual project. Discussion includes object-oriented processes, such as Rational Unified Process, as well as process management issues such as scheduling, risk-assessment, various metrics, and the selection of appropriate development methodology and tools.
CAS	CSC 476 Operating Systems 3.00 Prerequisite: CSC 270 & 313 Design & implementation of operating systems. Topics include basic operating system structure, process and thread management, deadlocks, memory management, file management, input / output management, and distributed systems.
CAS	CSC 477 Security in Computing 3.00 Prerequisite: Senior Standing Introduction to computer security and privacy. Topics include security in programs, operating systems, networks and databases.
CAS	CSC 490 Introduction to Academic Research in CSC 3.00 Prerequisite: Senior Standing This course introduces students to the world of academic research. Students select a field of Computer Science (relevant to one of the faculty member's background) that interests them most, such as networks, artificial intelligence, software engineering, databases, or another area. Students will conduct a survey of related work, investigate certain theories, produce and analyze results, and submit a written document under the supervision of a faculty member. At the end of the semester, students are expected to present their work to the department's academic committee, and, optionally, to the public.
CAS	CSC 492 Practicum in Computer Science 3.00 Prerequisite: CSC 473 coreq & 361 coreq Practicum in Computer Science prepares students for successful computing related careers. The course aims to train and certify the students with market demanding fields such as computer networks, database systems, computer system/ applications, business and leadership etc. Major Sheet of Computer Science https://www.gust.edu.kw/sites/default/files/ucom_comscience_2001_v1.PDF
CBA	MGMT 201 Introduction to Management Topics: social responsibility of organizations. This course examines a wide range of business theory and practical applications related to effective management practices. In addition to learning about what management is and what managers do, learners will also explore and assess their own management styles and the implications of their findings. Learners apply

	critical thinking skills pertaining to core business functions. Focus is on contributing factors to management, such as communication, the role of the manager, design of the organization, ethical issues, social responsibility and globalization. The course format emphasizes the application of management roles and competencies through experiential activities, group exercises and case analysis.
CBA	MGMT 471 Role of the Global Corporation Topics: ethics and social responsibility of global organizations. The purpose of this course is to create awareness of controversial issues about international business. Students will gain a better understanding of resistance to, and criticism of, international business and will become better prepared for dealing with these issues and problems.
CBA	MGMT 484 Innovation Management Topics: – INNOVATION AND INFRASTRUCTURE. This course provides an understanding of fundamental concepts of innovation management. Companies across multiple industries depend on product development for nearly 1/3 of their sales and profits, and innovation management is important in a globalized and increasing competitive world. Telecommunications, finance, or retail companies pursue new products to protect margins, while process innovation lowers the cost. This great area of study helps the student explore the underpinning success of many organizations and how their products and services have come to impact the way lives are lived. All functional areas of innovation management are explored in an in-depth view of origins of innovation that can be found beyond the R&D department. Different dimensions and types of innovations, firstmovers and optimal timing of new product launch are also explored. Important topics covering patents and trademarks for innovation, structural dimensions of an innovative organization, and the management of new product development process, including development teams, and the crafting of a successful deployment strategy. The course format emphasizes the application of innovation management tools through experiential activities, group exercises, and case analysis.
CBA	MGMT 571 International Business Topics: ethics and social responsibility of International organizations. This is a fundamental international business course aiming at introducing students to the general business environment that impacts conducting business across borders. Topics covered to include: Overview of International Business & Globalization, Culture, Government and Legal Systems, Trade & Factor Mobility Theory, Trade Protectionism, Economic Integration and Cooperation, Ethics & Social Responsibility, Strategies for International Business, Modes of Trading Internationally, and Forms and Ownership of Foreign Production.

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