



التقرير السنوي لمركز التحول الرقمي، الجامعة الخليجية ANNUAL REPORT FOR THE DIGITAL TRANSFORMATION CENTER

2025-2026

June 2026

Introduction

In line with Bahrain Vision 2030, Gulf University Strategic Plan 2023-2027 sets the direction and roadmap towards the aspirations in becoming a distinguished higher education institution at national, regional and international level.

One of the directions is Theme #7 i.e. Digital Transformation, through leveraging technical and human capabilities and focusing more on enhancing efficiency and effectiveness of operations, by digitizing all aspects of university processes including teaching, learning and simultaneously building human and infrastructural capacity to facilitate such transition.

Gulf University is a forward-thinking institution that strives to provide its faculty and students with guidance and the knowledge of disruptive and emerging technologies. Digital transformation is essential for universities to remain competitive and meet the changing needs of their stakeholders. To achieve this goal, the university has established the Digital Transformation Center, which aims to drive innovation, improve efficiency, and digitize campus operations. The center will also enhance the quality of academic programs and research activities at the university.



1. About DTC

- ✓ Research and understand new technologies supporting teaching and learning in higher education
- ✓ Identify priority areas where digital transformation adds maximum value
- ✓ Design and implement a digital transformation roadmap
- ✓ Develop campus management systems automating teaching, learning, assessment, and research
- ✓ Provide training and support to faculty and staff on digital tools
- ✓ Measure impact of digital transformation initiatives and recommend continuous improvements

2. DTC Members



Ali Mansoor
Director



Fahema Ali
Project Manager



Salman Sabir
Senior Software Developer



Erwin Agpasa
Software Architect



Bashar Thamer
Software Engineer

3. A Year of Excellence: Awards and Recognition

AWARD WINNER IN 2025

The **Digital Transformation Center at Gulf University** achieved significant recognition in 2025, winning multiple prestigious **awards**:



3.A Year of Excellence: Awards and Recognition



1st Place – Best Website Award (Private Sector)

+ Top 3 – Best Integrated eServices for the Student Portal
+ Top 3 – Best eParticipation for its AI-Powered Electronic Survey



Best AI Project for the AI Assistant "Maryam"

ICT Projects 2026

- 1 Infrastructure Security s Compliance Projects
- 2 Websites Tech Stack: From WordPress to Angular
- 3 Data Control s Privacy
- 4 Cloud to On-Prem Backup
- 5 Sustainable Family Award Platform
- 6 Alumni Engagement Portal
- 7 Internship Platform
- 8 Digital Transformation Restructuring Project
- 9

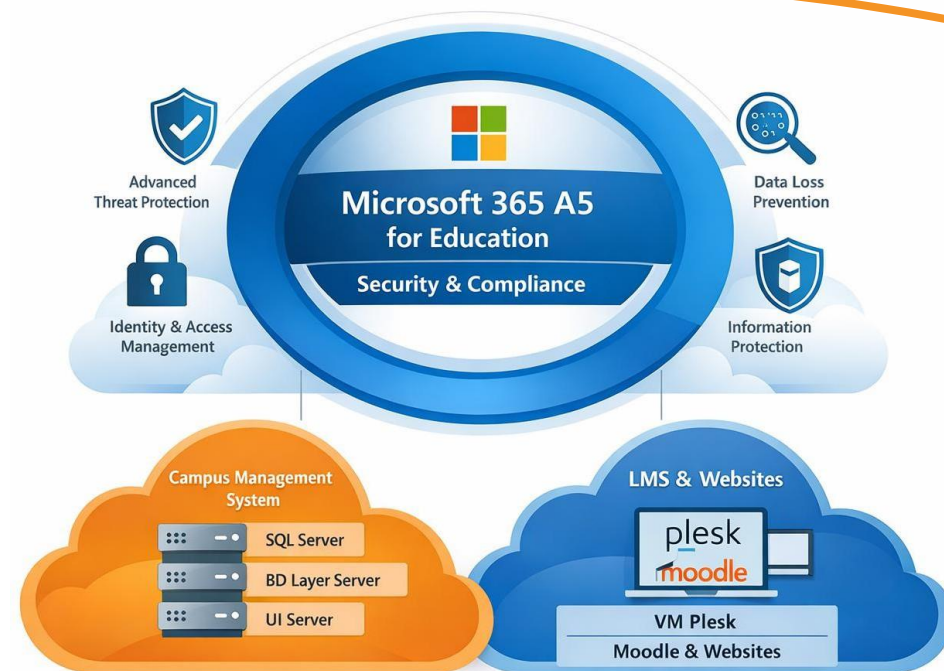


Project 1: Infrastructure Security s Compliance Projects

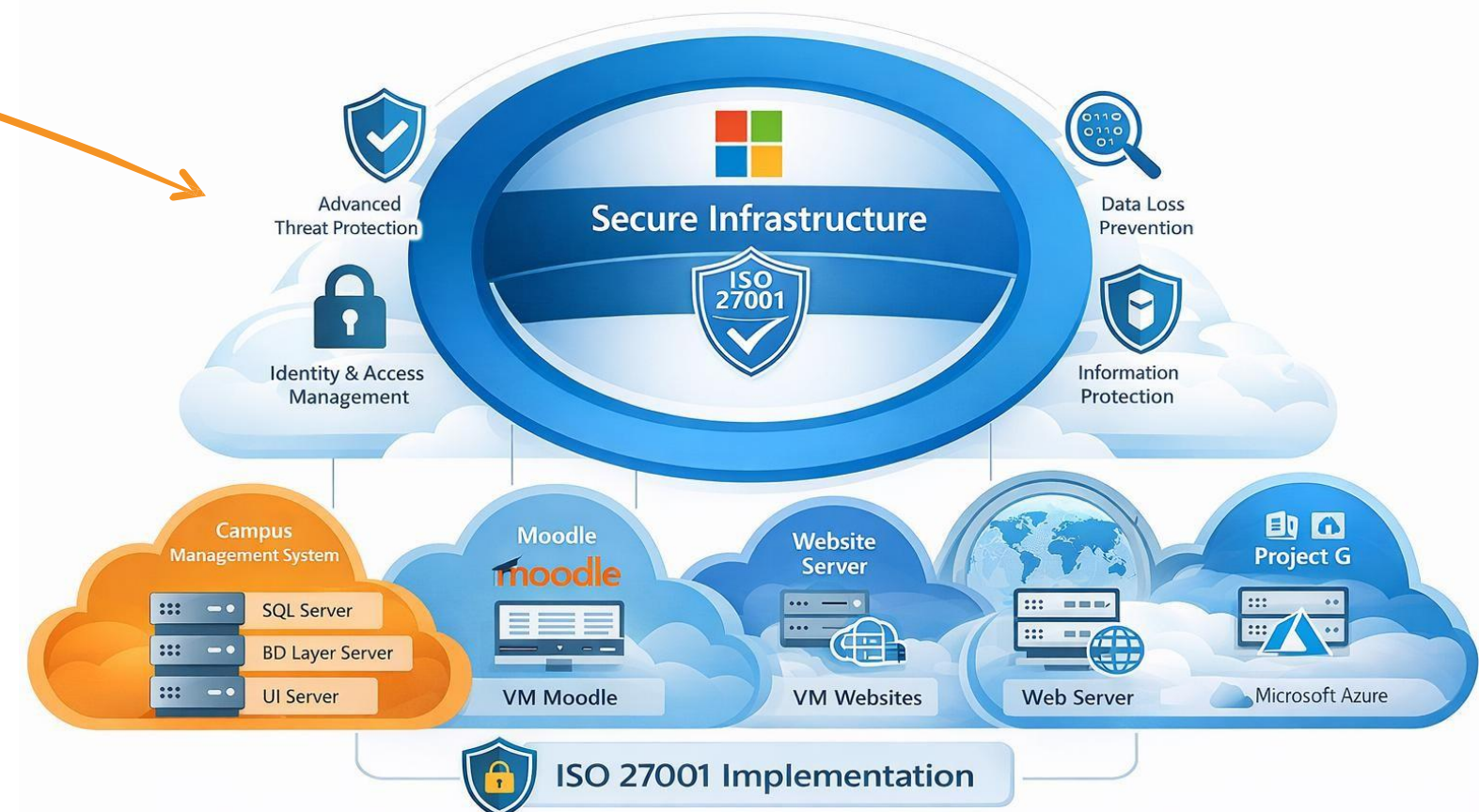
The Gulf University Infrastructure Enhancement Project aims to establish a secure, scalable, and future-ready digital environment leveraging Microsoft 365 A5 and modern cloud technologies. To achieve this, we are working on the following projects:

1. **Project 3.1. Cloud Security Enhancement:** By IT Team and our cloud services provider (ZainTECH).
2. **Project 3.2. Infrastructure Assessment by an External Verifier:** A part of our current cloud security and service provider, RFP is made to make a full cloud assessment.
3. **Project 3.3. ISO 27001 Certification:** to ensure the highest levels of security, governance, and operational efficiency.
4. **Project 3.4. Websites Tech Stack Transfer:** change the main and sub websites from WordPress to Angular/HTML.
5. **Project 3.5.** Create a new Web Server and isolate from Moodle Server.

Current Infrastructure



New Infrastructure

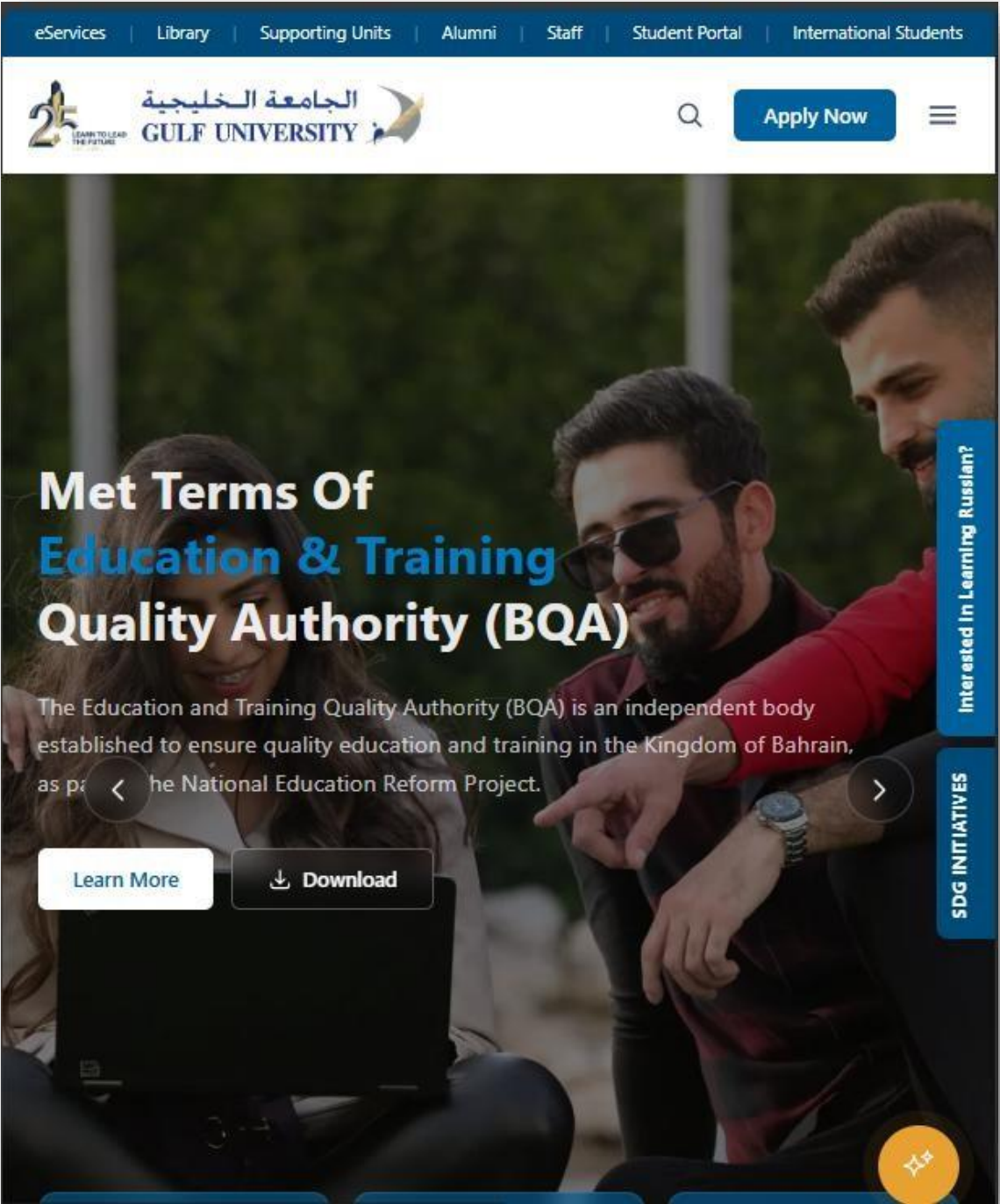


4. Project 2: Websites Tech Stack: From WordPress to Angular

Moving from WordPress to Angular means the Gulf University website is now faster, safer, easier to maintain, and ready to grow. Visitors enjoy a smoother browsing experience, and the university has full control over the design and features — without relying on third-party plugins, that create backdoors for threats and malware.

2.1. What’s the different?

Category	WordPress (Old)	Angular (New)
What It Is	A website builder — like using templates	A custom-built website — made from scratch
How Pages Load	Each click reloads the entire page	Pages switch instantly without reloading
Speed	Slower — average 3-5 seconds per page	Faster — average 1-2 seconds per page
Security	Higher risk — most hacked websites use WordPress	Much safer — no exposed login pages or risky add-ons
Add-ons s Plugins	Relies on 30,000+ third-party plugins that can conflict	Everything is custom-built, so no plugin issues
Handling High Traffic	Can crash or slow down with many visitors	Built to handle large numbers of visitors smoothly
Design Flexibility	Limited by pre-made themes	Complete freedom to design any layout or feature
Mobile Experience	Depends on the theme quality	Built-in mobile-friendly design from the start
Search Engine Visibility	Good with plugins	Equally strong with modern techniques
Ongoing Maintenance	Needs frequent updates to core, themes, and plugins	Minimal maintenance — no plugin updates needed
Future Growth	Difficult to add complex new features	Easy to add new features and scale up



4. Project 3: Data Control s Privacy

4.1. Objectives

- Ensure Gulf University complies with Bahrain Personal Data Protection Law (PDPL).
- Protect personal data of students, faculty, staff, and visitors.
- Prevent misuse, unauthorized disclosure, or unlawful processing of personal information.
- Establish clear governance for data handling, storage, and access.

4.2. Scope

This plan applies to the data of:

- Students
- Faculty members C Administrative staff
- CCTV monitoring system
- Attendance (punch-in) machines
- Research, Surveys and academic data collection



4. Project 3: Data Control s Privacy

4.1. Requirements

1. **Employee Contracts Data Protection Review:** Review employee contracts to ensure they include clauses related to personal data protection and compliance with Bahrain's Personal Data Protection Law.
2. **CCTV Compliance s Governance Implementation:** Implement governance procedures for campus CCTV systems to ensure operation and monitoring comply with data protection regulations.
3. **CCTV Surveillance Signage Deployment:** Install clear signage across campus areas informing individuals that CCTV surveillance is in operation.
4. **CCTV Data Access Control Policy:** Establish a formal policy to restrict access to CCTV recordings to authorized personnel and define procedures for lawful sharing of footage.
5. **Institutional Policies s Contracts PDPL Compliance Review:** Review university policies, agreements, and documents (such as MOUs, NDAs, and vendor contracts) to ensure compliance with Personal Data Protection Law requirements.
6. **Research s Academic Data Collection Privacy Framework:** Develop guidelines to regulate how personal data is collected in academic research and surveys, ensuring consent, privacy, and minimal data collection.
7. **Data Retention Policy Implementation:** Establish a formal policy defining how long different types of institutional data (academic, administrative, operational) should be retained.
8. **CCTV Data Retention Management:** Define retention periods for CCTV recordings and implement processes for secure deletion after the retention period expires.
- G. **Data Governance Structure (Department Data Stewards):** Establish a data governance framework by appointing data stewards in each department responsible for managing and protecting institutional data.
10. **Sensitive Data Protection Framework:** Develop procedures to safeguard sensitive data such as medical records or other confidential personal information.
11. **PDPL Awareness s Training Program:** Conduct awareness and training programs for faculty and staff to ensure understanding and compliance with data protection policies and regulations.

4. Project 4: Cloud to On-Prem Backup

Implement a Cloud to On-Prem Backup Solution using Vembu BDR Suite to enhance data protection and business continuity. The proposed solution will back up all Microsoft Azure Virtual Machines (VMs), hosted websites, and Microsoft 365 services, including Exchange Online and SharePoint files.



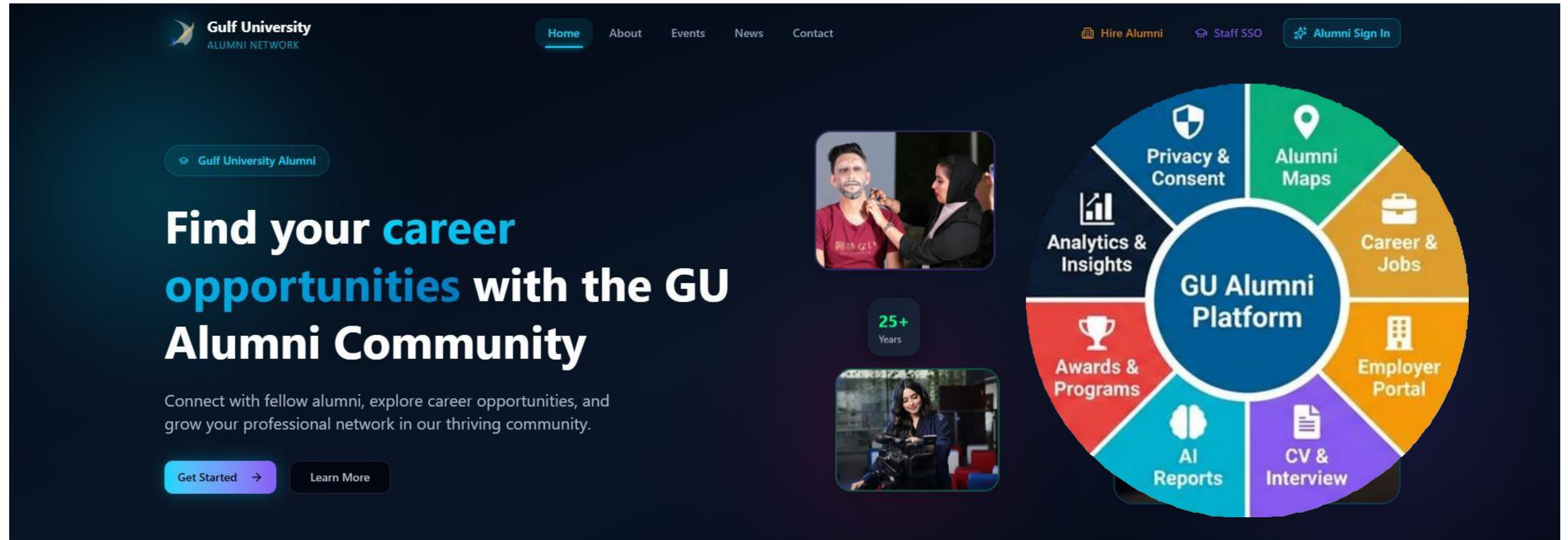
4. Project 5: Sustainable Family Award Platform

Develop Angular Website/Platform for the Sustainable Family Award - an initiative by Gulf University that recognizes and celebrates families who demonstrate outstanding commitment to sustainable living practices in the Kingdom of Bahrain.



4. Project 6: Alumni Engagement Platform

Develop an AI-Powered Platform for Gulf University Alumni, to connect the graduates with opportunities, resources, dedicated to supporting lifelong journey beyond graduation.



4. Project 7: Internship Management System (IMS)

7.1. Objectives

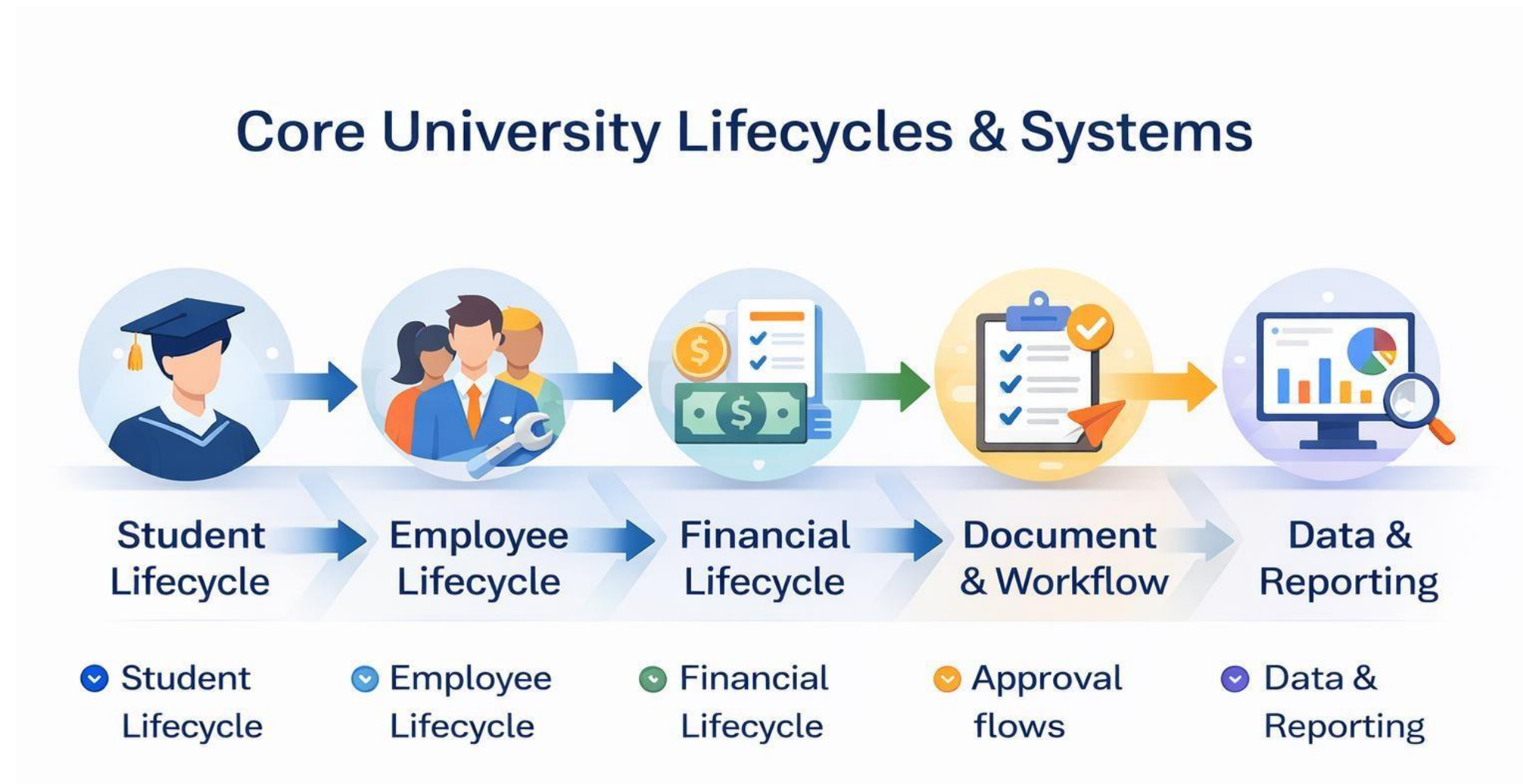
- End-to-end digital management of the internship lifecycle (Planning → Placement → Evaluation → Grading)
- Centralized system integrating students, faculty, coordinators, and supervisors
- Seamless integration with Moodle for course visibility and grading
- Supports 11 standardized digital forms (F01–F11) with full documentation
- Enables automated approvals, tracking, and notifications
- Provides complete audit trail for each student internship case
- Reduces manual processes and administrative workload
- Ensures quality assurance before grading is unlocked

End-to-end Digital Internship Management System



4. Project 8: Digital Transformation Restructuring

- 🎓 **Student Lifecycle:** From lead generation to alumni through a fully integrated academic journey (admission, learning, internship, graduation).
- 👤 **Employee Lifecycle:** End-to-end workforce management covering hiring, onboarding, performance, and development.
- 💰 **Financial Lifecycle:** Unified financial operations including fees, payments, budgeting, and procurement.
- 📄 **Document s Workflow Management:** Automated approvals, e-signatures, and centralized document control.
- 📊 **Data s Reporting:** Single source of truth with real-time dashboards for informed decision-making.



4. Project G: Project G

9.1. Overview

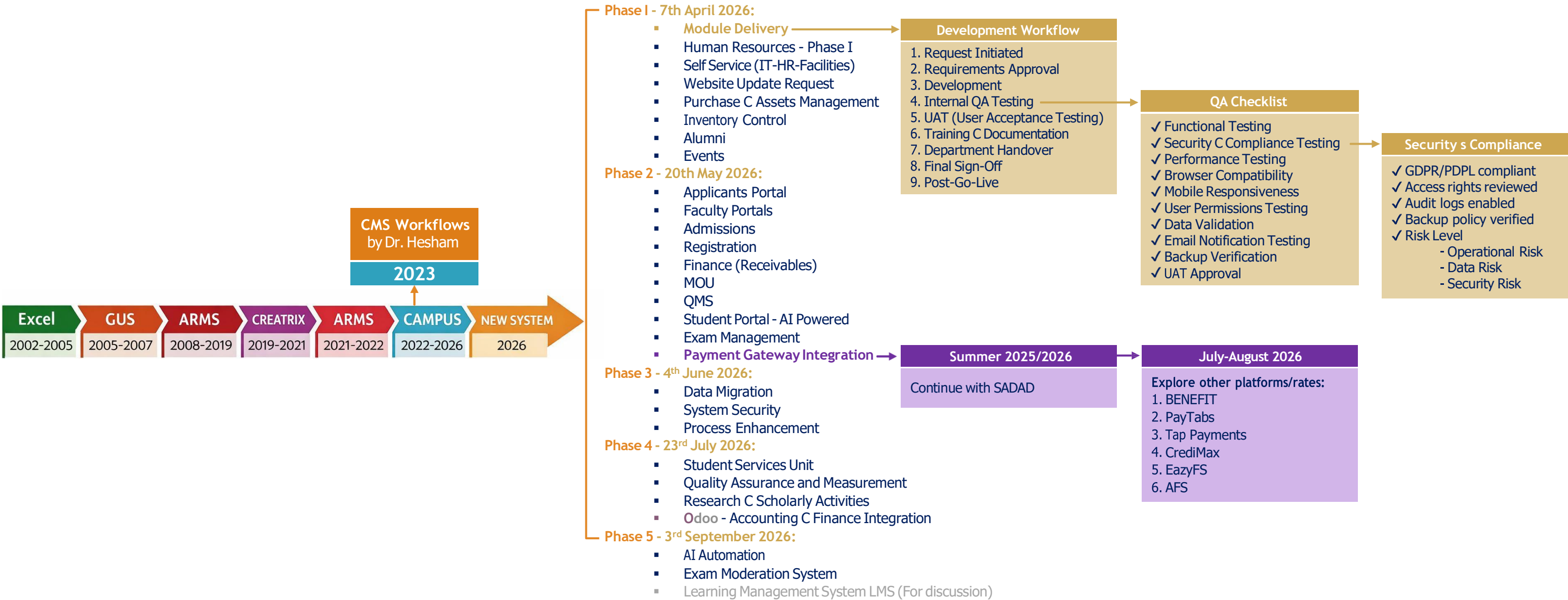
Project is a Green Campus Management System for Gulf University that uses Generative AI features. The project is one of the initiatives under Digital Transformation Center Operational Plan for the year 2024/2025, and it's one of the university long-term plan to mitigate one of the highest severity risks found in Risk Assessment Exercise for May 2023, i.e. availability risk of the SaaS systems.

Project G Logo:

- Like an arrow to the future.
- Stands for letter G which represents three powers of the project:
 - Green.
 - Gulf University.
 - Generative AI features.

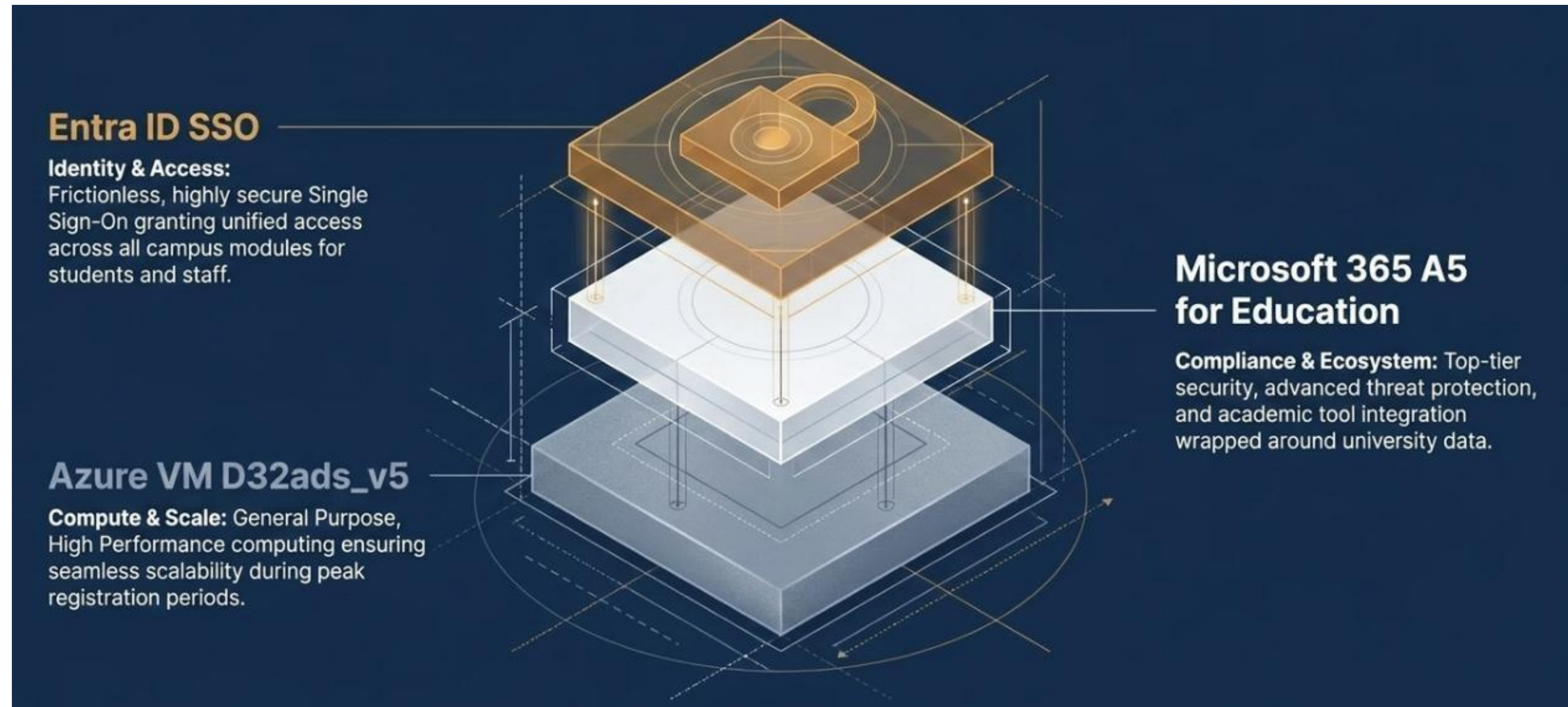


4. Project G:Project G Phase



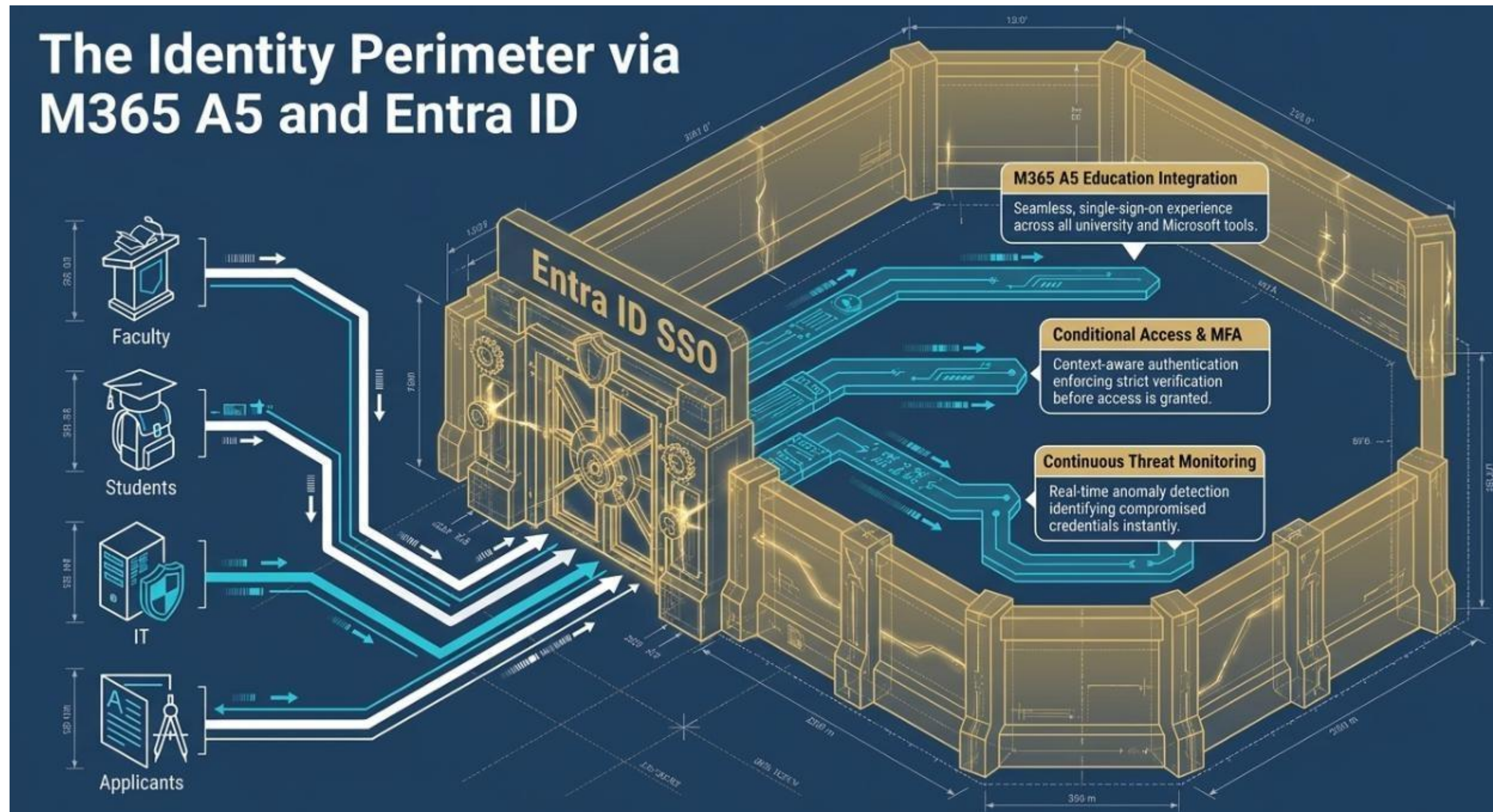
4. Project G: Project G Infrastructure Grade Security

G.2. Security Layers: CMS integrates Entra ID SSO, Azure high-performance infrastructure, and Microsoft 365 A5 to deliver seamless access, advanced security, and unified campus operations. This architecture ensures reliable performance, secure identity management, and a future-ready digital learning environment for students, faculty, and university administration.



4. Project G: Project G Infrastructure Grade Security

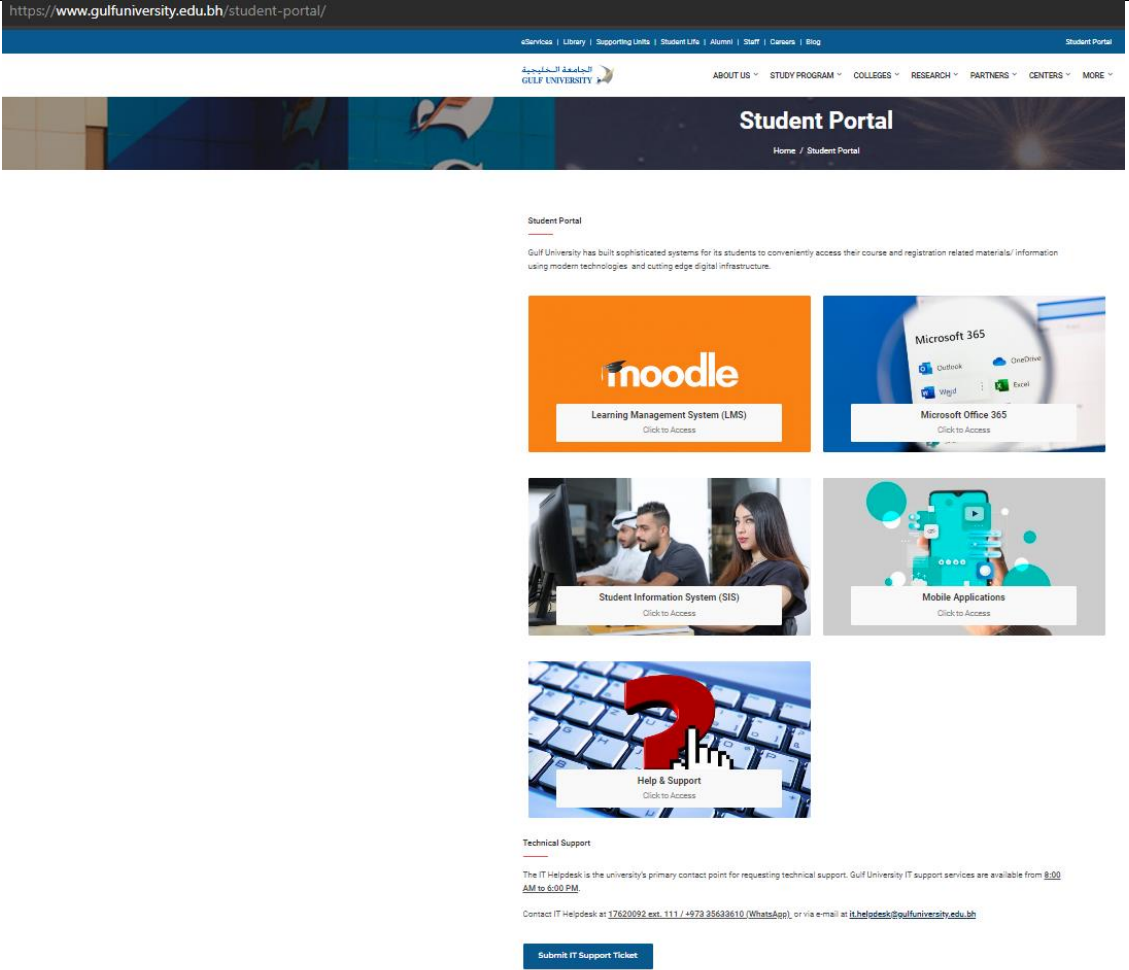
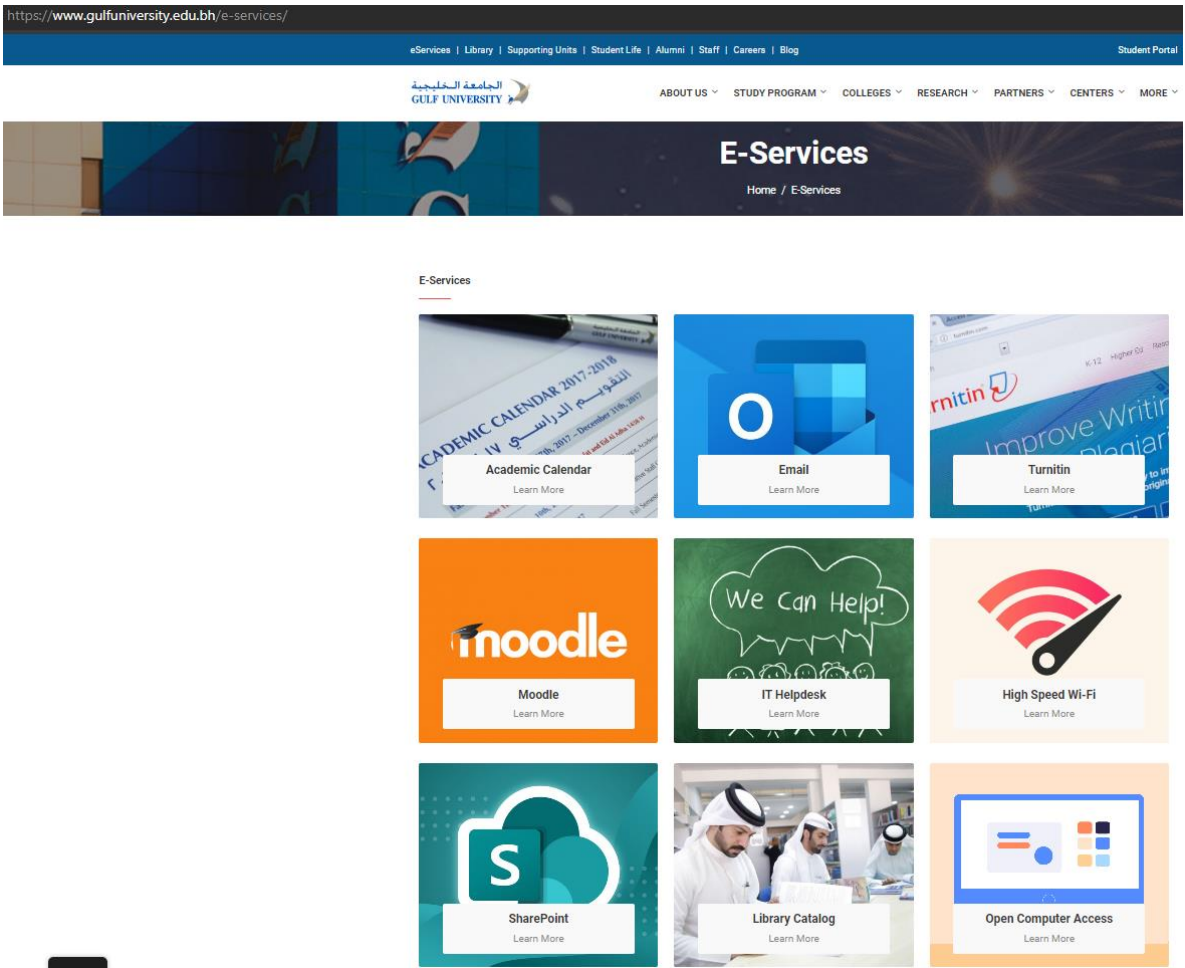
G.3. Digital Identity: is powered by Microsoft 365 A5 and Entra ID, delivering secure, unified access for faculty, students, IT staff, and applicants through a centralized Single Sign-On environment. With Conditional Access, Multi-Factor Authentication, and continuous threat monitoring, the platform ensures proactive security, compliance, and seamless integration across all university systems and services.



ICT Monitoring Document for 2025-26

1. Settings & Infrastructure
2. Planning, implementation, monitoring and/or evaluation of all programs related to Settings & Infrastructure through the utilization of Information and Communication Technology

Stage	Activities / Programs	ICT Utilization	Evidence	Timeline	Responsible Team / Department
Planning	Development of the <i>Smart & Sustainable Campus Master Plan</i> integrating energy efficiency, security, and accessibility	Use of Microsoft Teams, and SharePoint for cross-department coordination; digital archiving of project plans and sustainability objectives	Project proposals, digital planning files, SDM-C and ICT planning reports	Jan – Mar 2026	IT Dept, Digital Transformation Committee (DTC),
Implementation	Deployment of <i>Smart Infrastructure</i> (interactive classrooms, IoT-based lighting and inverter ACs, campus-wide Wi-Fi 850 Mbps)	Utilization of smart classroom technology, ERP & LMS (Moodle), Campus SIS, Microsoft 365 for communication and paperless operations	Purchase orders, installation reports, ICT inventory, IT Annual Report 2025-26	Apr – Jun 2026	IT Dept, Digital Transformation Committee (DTC), Facility Management Unit, Academic Affairs
Monitoring	Continuous audits of network, servers, and energy usage through the <i>IT Monitoring Dashboard</i>	Use of PRTG Monitor, Power BI Analytics, Microsoft Security Dashboard to track uptime, Wi-Fi load, device energy use	Audit logs, network performance charts, Power BI visuals, SDM-C inspection records	Jul 2025 – Ongoing	IT Dept, Institutional Research Unit, SDM-C
Evaluation	Annual assessment of ICT impact on sustainability performance and learning outcomes	Online feedback forms, data analysis tools (Excel / Power BI), digital KPIs and dashboards integrated into Sustainability Report 2025-26	Survey summaries, KPI dashboards, IR evaluation report, CECEC summary	Dec 2025– Feb 2026	Institutional Research Office, IT Dept, CECEC, SDM-C



Installation of smart classroom technology

Description:

Gulf University effectively integrates Information and Communication Technology (ICT) across all levels of campus planning, implementation, monitoring, and evaluation to ensure operational efficiency, environmental sustainability, and safety. This approach supports both digital transformation and sustainable campus management, in alignment with the university’s Strategic Plan 2024–2028, Bahrain Vision 2030, and SDG 9 (Industry, Innovation & Infrastructure), SDG 11 (Sustainable Cities & Communities), and SDG 12 (Responsible Consumption & Production).

1. Planning Stage – Digital Campus Infrastructure Design

- The ICT Department and Safety & Development Management Committee (SDM-C) use project management software and digital collaboration tools (Microsoft Teams, Asana, SharePoint) to plan infrastructure upgrades.
- The Digital Transformation Committee (DTC) develops GU’s Smart Campus Master Plan, which integrates sustainability objectives (energy-efficient systems, digital access, cloud-based operations).
- Key planning documents — including ICT strategy maps, progress dashboards, and facility upgrade proposals — are managed and archived digitally.

2. Implementation Stage – Smart and Green Infrastructure Systems

- ICT tools power GU’s Smart Classroom Technology: interactive smartboards, digital projectors, hybrid conferencing systems, and campus-wide Wi-Fi (850 Mbps).
- Inverter-based ACs and LED smart lighting were implemented based on sensor data collected through ICT monitoring systems.
- GU’s Learning Management System (Moodle), Campus ERP, and Digital Library (KOHA) reduce paper use and support a near-paperless environment.
- The CCTV network (86 cameras) and digital ID entry systems manage access and optimize campus security efficiently.

3. Monitoring Stage – Smart Analytics and System Auditing

- Real-time monitoring tools (PRTG, Microsoft 365 Security Dashboard) track server performance, energy consumption, and ICT resource efficiency.
- Network usage and energy savings reports are compiled quarterly, supporting GU’s sustainability dashboard for GreenMetric and SDG reporting.
- ICT-supported monitoring also includes classroom usage data, building occupancy analytics, and utility audits, enabling data-driven maintenance and energy optimization.
- SDM-C’s internal inspections and CECEC’s community engagement reports are digitized through cloud systems for transparency and performance tracking.

4. Evaluation Stage – Data-Driven Improvement and Impact Assessment

- GU conducts digital satisfaction surveys and infrastructure efficiency evaluations through Microsoft Forms and internal data dashboards.
- The ICT and IR teams use Power BI and Excel analytics tools to visualize performance trends in energy, space utilization, and system uptime.
- Feedback loops enable continuous improvement in sustainability planning, with results integrated into the Sustainability Report 2025–2026.

5. Integration with Sustainability and SDGs

- ICT supports E-learning, digital sustainability dashboards, smart waste tracking, and energy management.
- The GU Student Portal centralizes academic, research, and sustainability services — reducing paper-based transactions.
- A Sustainability Data Dashboard (in development) will connect annual data from SDM-C, CECEC, and Research Units.
- GU’s cybersecurity framework ensures secure digital operations and data privacy, enhancing institutional resilience.

IT Services

IT Department is facilitating technology services to students, faculty members, researchers and administration staff to support their needs to excel.

1.1. IT Services and eService Display on University Website

The IT Services including eServices are displayed at the university main website for an easy access to end users. All the IT services are subjected to related policies and procedures. End users are requested to agree on terms and condition as per Acceptable Use Policy upon receiving user account information from IT Department.

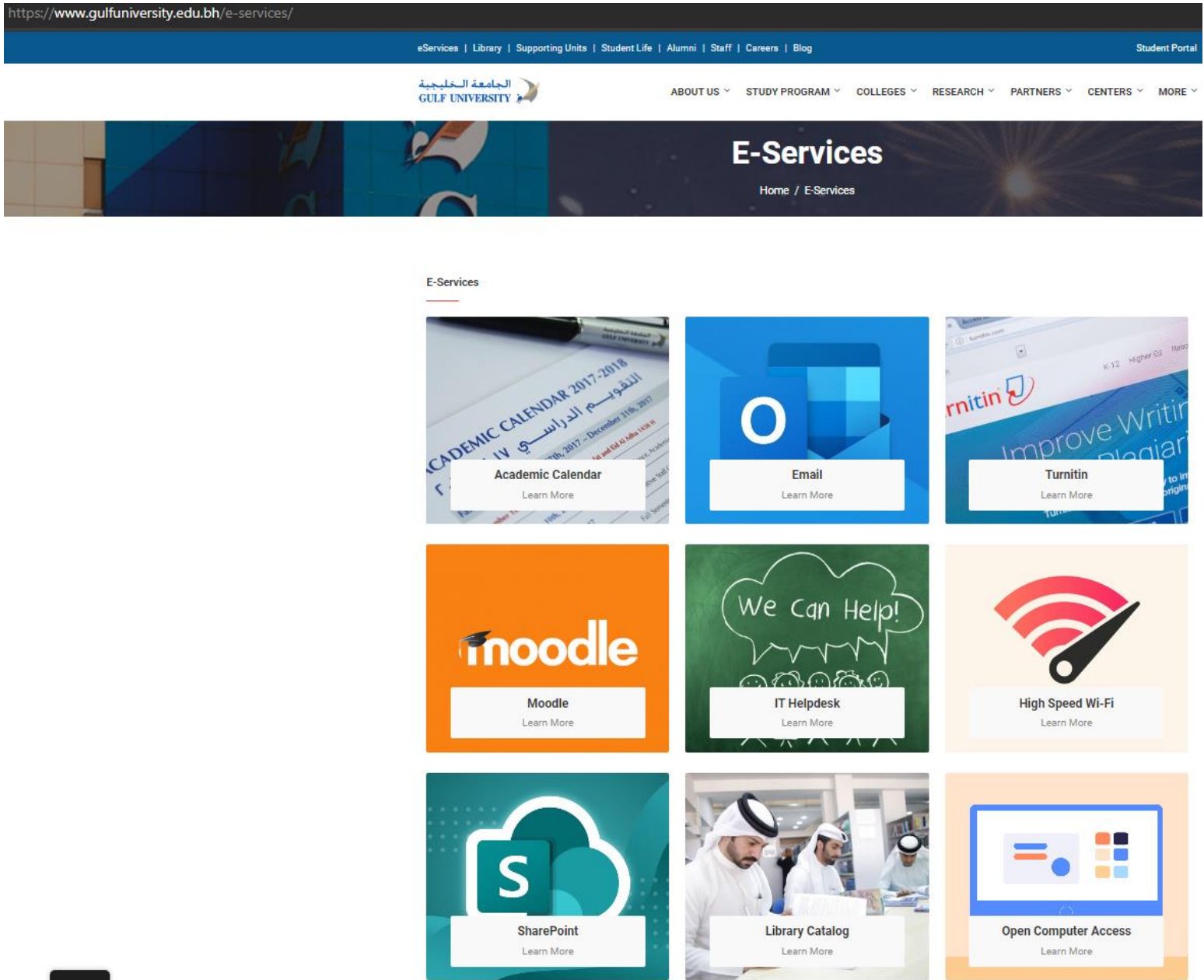


Figure 1 – Main IT Services listed on the university website.

2. IT Services for Targeted Groups

NO.	SERVICE	STUDENTS	FACULTY MEMBERS	RESEARCHERS	ADMIN STAFF	VISITORS
1	High speed internet (Up to 850 Mbps)					
2	eLearning (Moodle)					
3	Email					
4	OneDrive Storage					
5	SharePoint Intranet					
6	Office 365 Other Applications					
7	Photocopy & Print					
8	Plagiarism Detection - Turnitin					
9	Essential Software					
10	Learning Support Software					
11	Open Computer Access					
12	Workshops & Training					
13	Telephone					
14	Computers & laptops					
15	Collaboration (Office 365-Creatrix)					
16	High Performance Computing					

Table 1 – List of IT Services and eServices

3. Student Portal

Student Portal is accessible from Gulf University main website [Student Portal - Gulf University, Kingdom of Bahrain](https://www.gulfuniversity.edu.bh/student-portal/) to provide easy to Learning Management System (Moodle), Student Information System (Campus SIS) and Office 365.

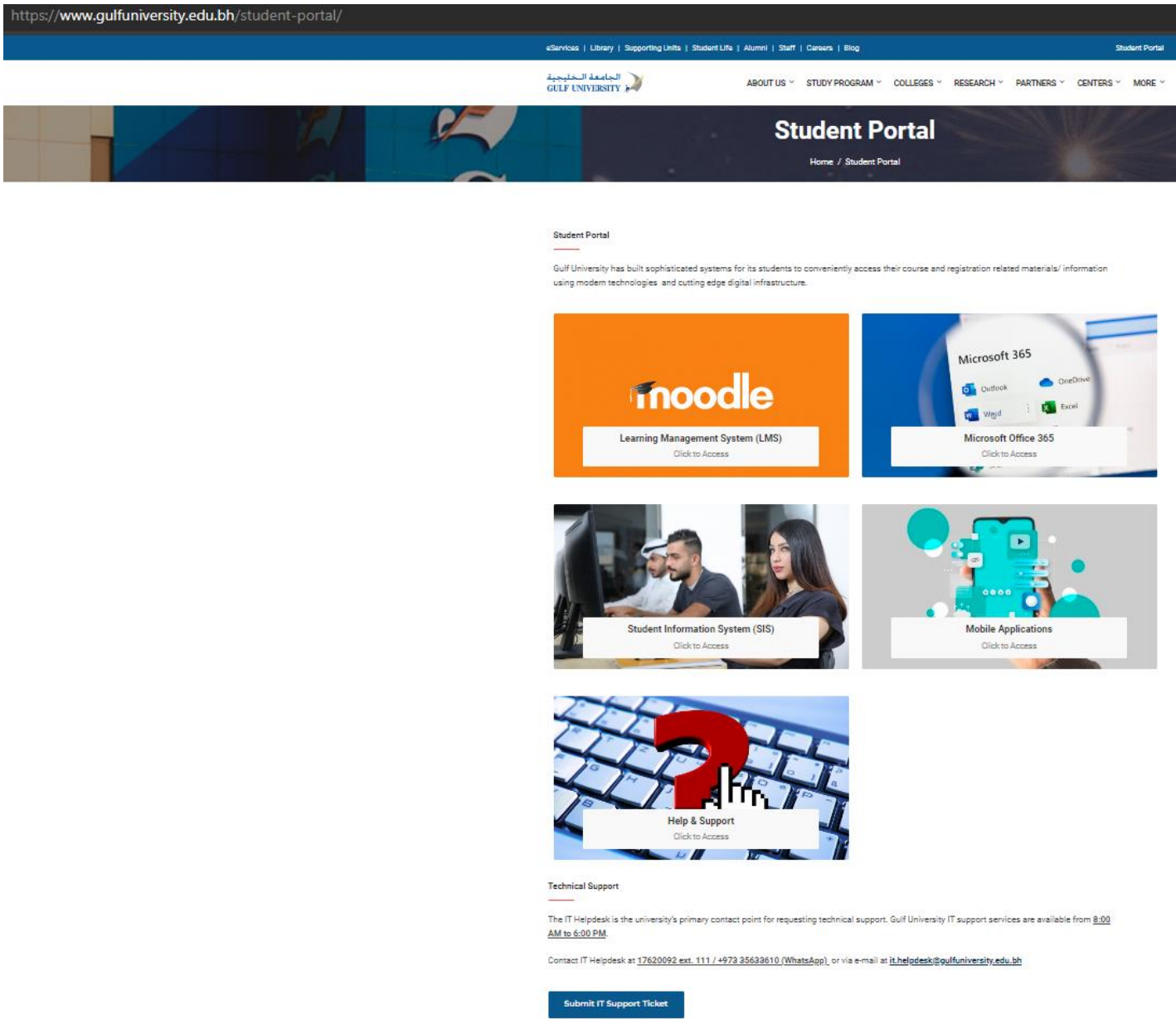


Figure 2 – Student Portal on the university website.

4. Mobile Applications

Following is a screenshot from the Student Portal→ Mobile Application page on the university main website. The page has two categories; Essential and Other Useful Mobile Apps. We will list the main features of essential apps in this report.

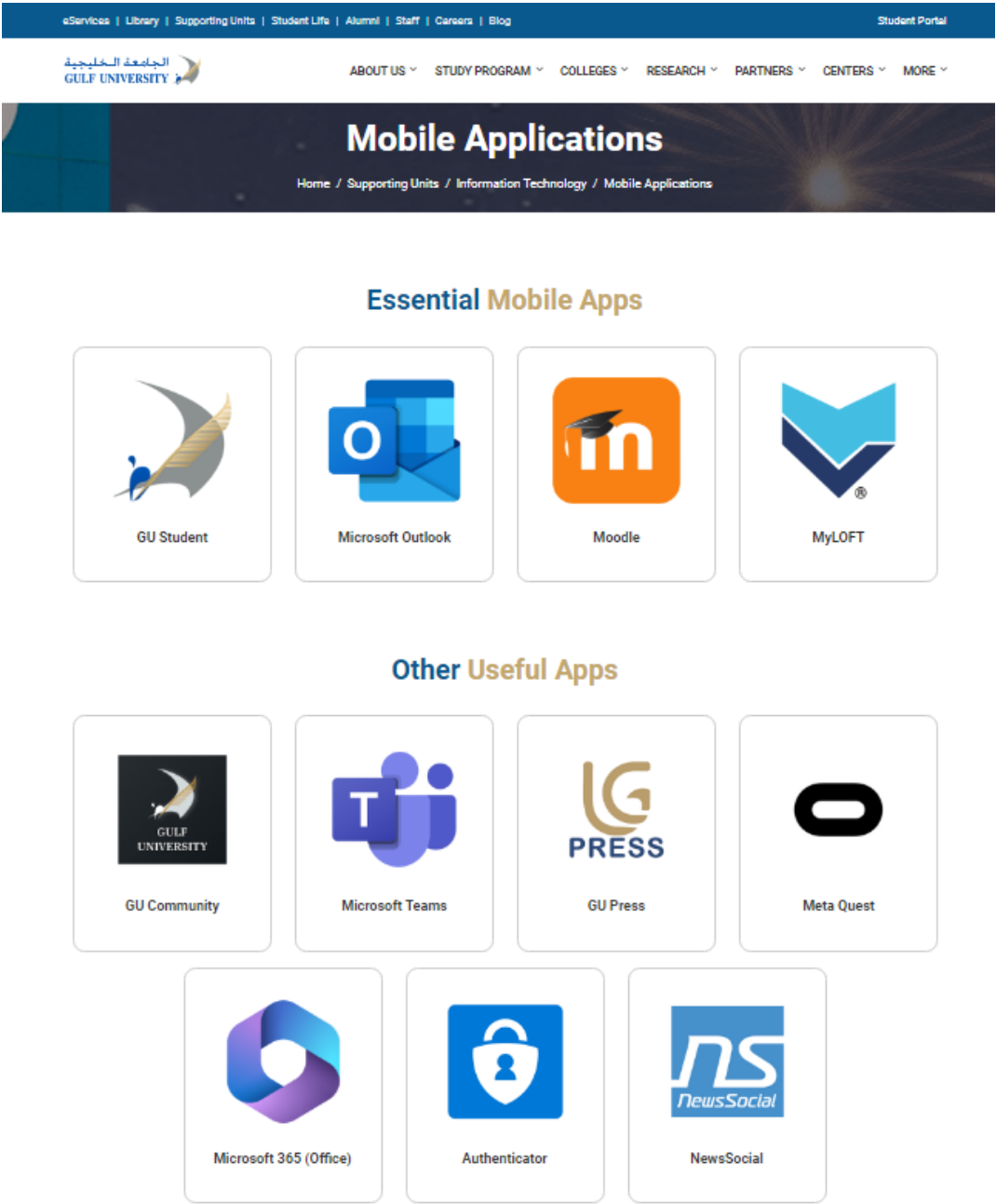


Figure 3 – Mobile Applications page on the university website.

4.1. GU Student Mobile App:

Gulf University Student App is an extension for the web-based student portal dedicated for undergraduate and graduate students at the Gulf University in Bahrain, the App enriches students’ educational experience through improved accessibility, functionality, and enhanced user experience. The app bringing together the information of faculty, students, teaching material, assignments, and student grading in a single platform. The Gulf University Student App is designed to provide effective feedbacks by the faculty and enables for the self-learning of students.

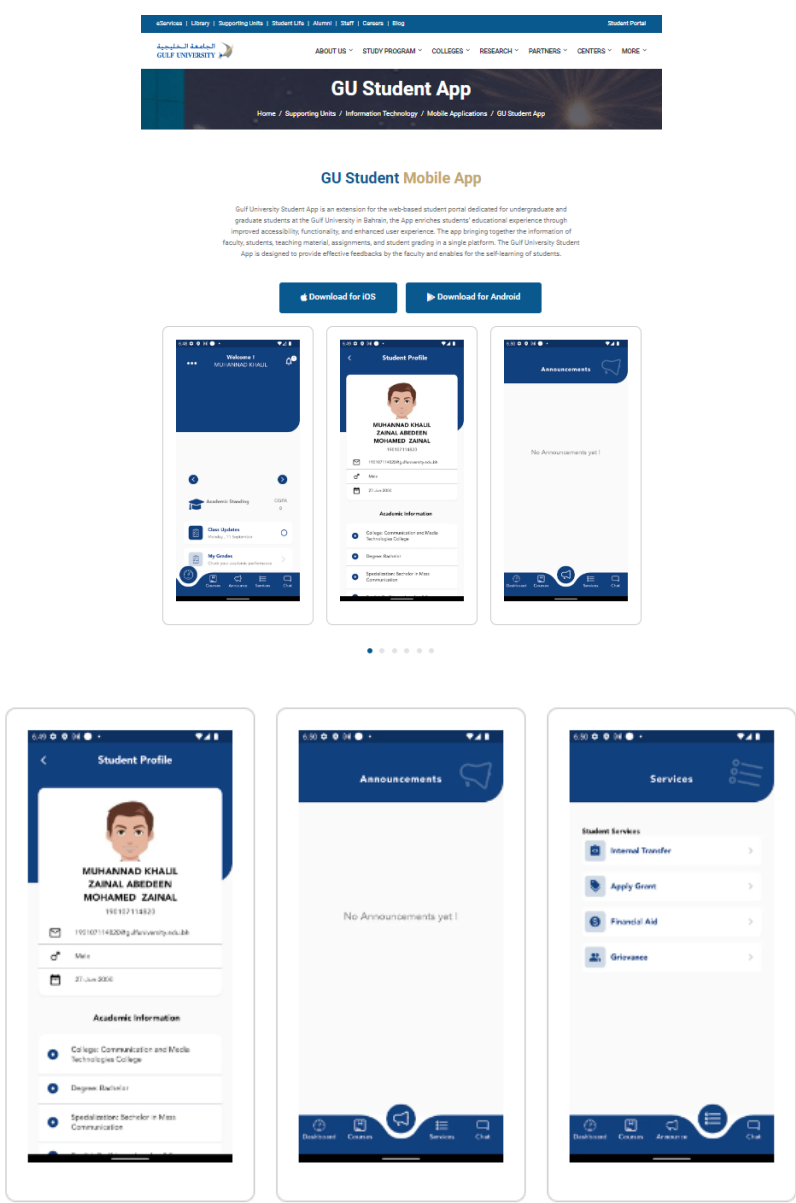


Figure 4 – GU Student Application page on the university website.

4.2. Moodle Mobile App:

The Learning Management System (Moodle) Mobile Application for students works with Moodle sites that have been set up to allow it. If your Moodle site has been configured correctly, you can use this app to:

- Browse the content of your courses, even when offline
- Receive instant notifications of messages and other events
- Quickly find and contact other people in your courses
- Upload images, audio, videos and other files from your mobile device
- View your course grades and more!

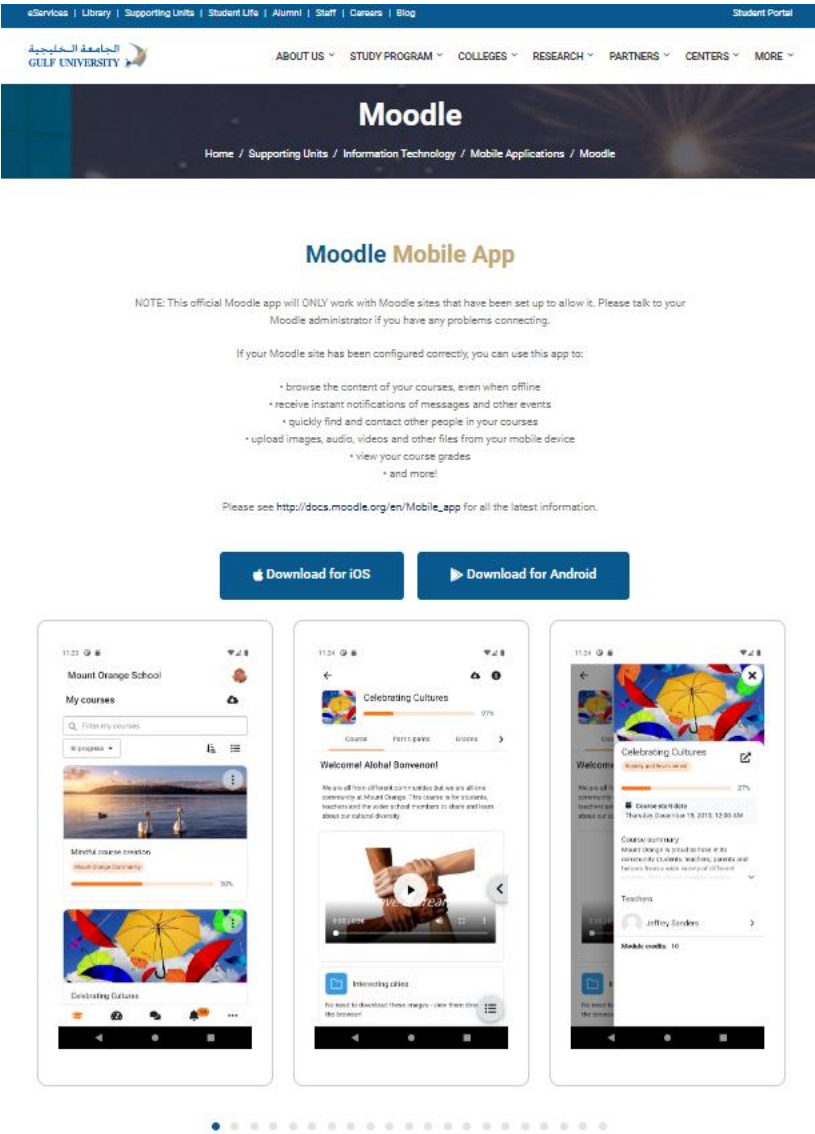


Figure 5 – Moodle Mobile Application page on the university website.

4.3. Outlook Mobile App:

Outlook Mobile App allow students to connect and coordinate with their classmates and instructors. Allowing them to stay on top of day through a secure email and calendar app.

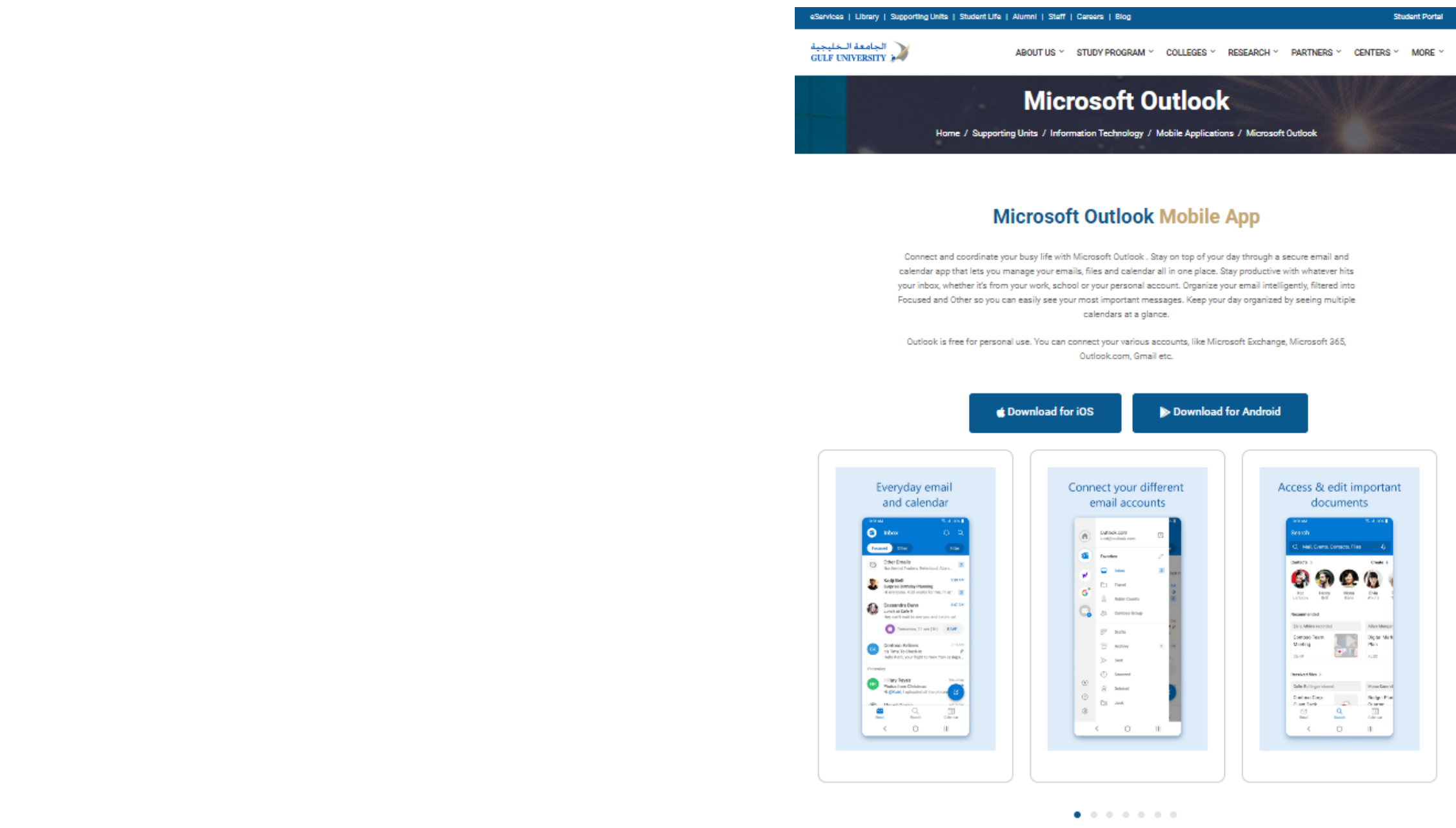


Figure 6 – Outlook Mobile Application page on the university website.

4.4. MyLOFT Mobile App (Library):

MyLOFT is a student personal library. It is one place to Access-Organize-Share e-Content and library subscribed scholarly resources of the student professional & personal interests.

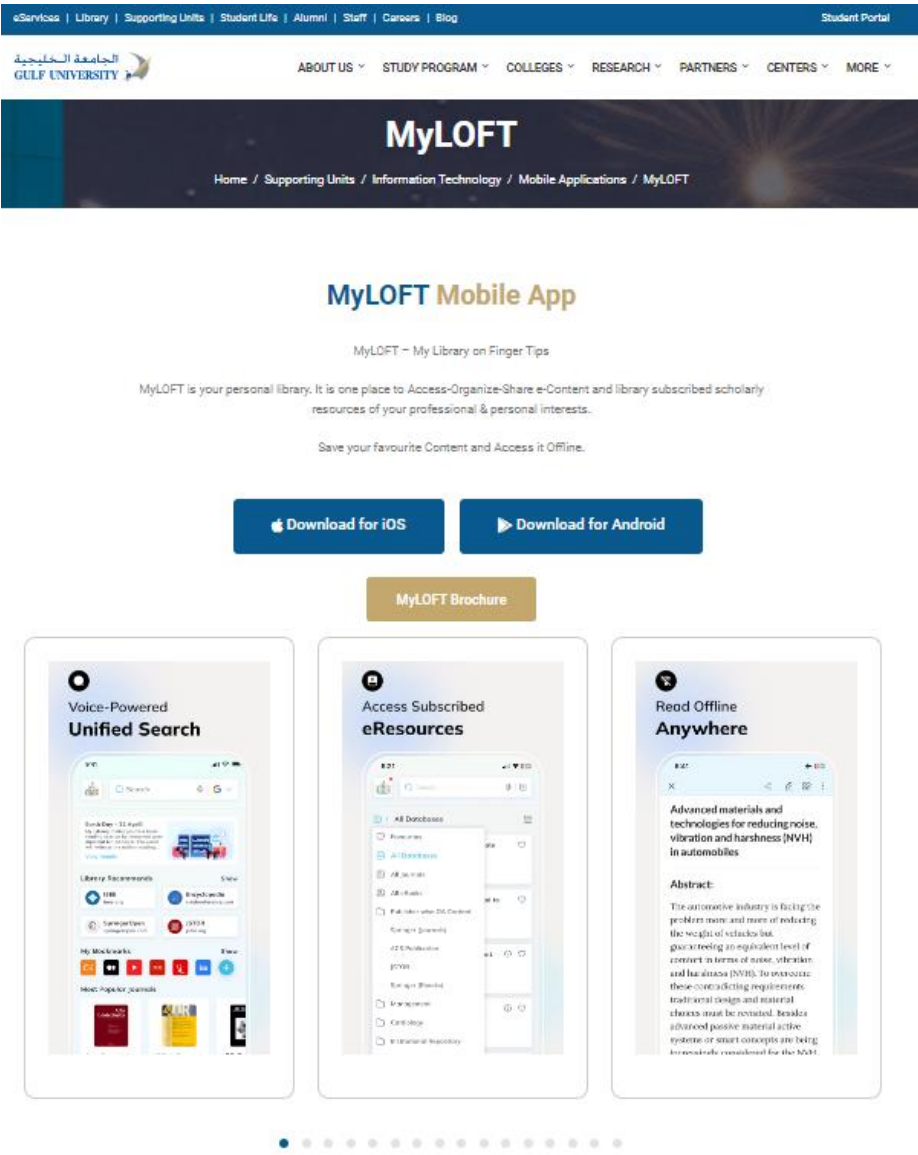


Figure 7 – MyLOFT Mobile Application page on the university website.

2. Energy & Climate Change

Planning, implementation, monitoring and/or evaluation of all programs related to Energy & Climate Change through the utilization of Information and Communication Technology

ICT-Based Planning, Implementation, and Monitoring Framework (2025–2026)

Stage	Activities / Programs	ICT Utilization	Evidence / Output	Timeline	Responsible Department(s)
Planni ng	Conduct feasibility analysis for energy optimization and renewable expansion	ERP modules, Power BI energy dashboards, and Smart Building Management System (SBMS) used for consumption mapping and data-driven planning	Energy Monitoring Dashboard, Facilities Energy Plan	Jan–Mar 2026	IT Dept., Sustainability Office, Facilities Management
Imple mentat ion	Upgrade to energy-efficient systems (LED, inverter ACs), install solar panels, automate lighting and air-conditioning	ERP-based facility control; Smart sensors; Solar power production tracked through IoT dashboards	Facilities Management, Energy Monitoring Dashboard,	Apr–Sep 2025	Facilities Management, IT Dept.
Monito ring	Real-time tracking of electricity use, solar output, and building-level performance	Power BI visual dashboards display live energy use and trends	Energy Monitoring Dashboard, EWA	Continuous (Oct 2025–Sep 2026)	IT Dept., SDM-C
Evalua tion	Assess energy performance improvements and carbon footprint reduction	ERP analytics and auto-generated KPI reports for management review; CO ₂ emission summary uploaded to GU Sustainability Report 2025-26	Energy Monitoring Dashboard, Carbon footprint report from Sustainability Development Makers Center (SDM-C)	Annually (Sep 2026)	SDM-C, CECEC, IT Dept.

DTC Program	SDG 13 Link	Evidence
Energy & Climate Change ICT Framework	Real-time Power BI energy dashboards, carbon footprint evaluation, CO ₂ emission summary uploaded to GU Sustainability Report 2025–26	Explicit "Energy & Climate Change" section (Section 2) with full Plan→Implement→Monitor→Evaluate cycle
Smart Maintenance Tracking (Sewage & Facility)	Power BI/ERP dashboard explicitly stated to support "SDG 9, SDG 11, and SDG 13"	94%+ completion rate, <3hr avg response time
Smart Transportation (Shuttle & Carpool via GU Smart Move Portal)	GPS-enabled tracking, Power BI Mobility Dashboard tracking carbon-savings metrics; explicitly states support for "SDG 9, SDG 11, and SDG 13 (Climate Action)"	Beta launch Mar–Apr 2026; emissions/ridership evaluation Jun–Jul 2026
Water Management (ICT-enabled)	AI-driven irrigation + IoT monitoring "demonstrating measurable progress toward SDG 6 and SDG 13"	↓3.1% water usage (Sept 2025–Jul 2026)

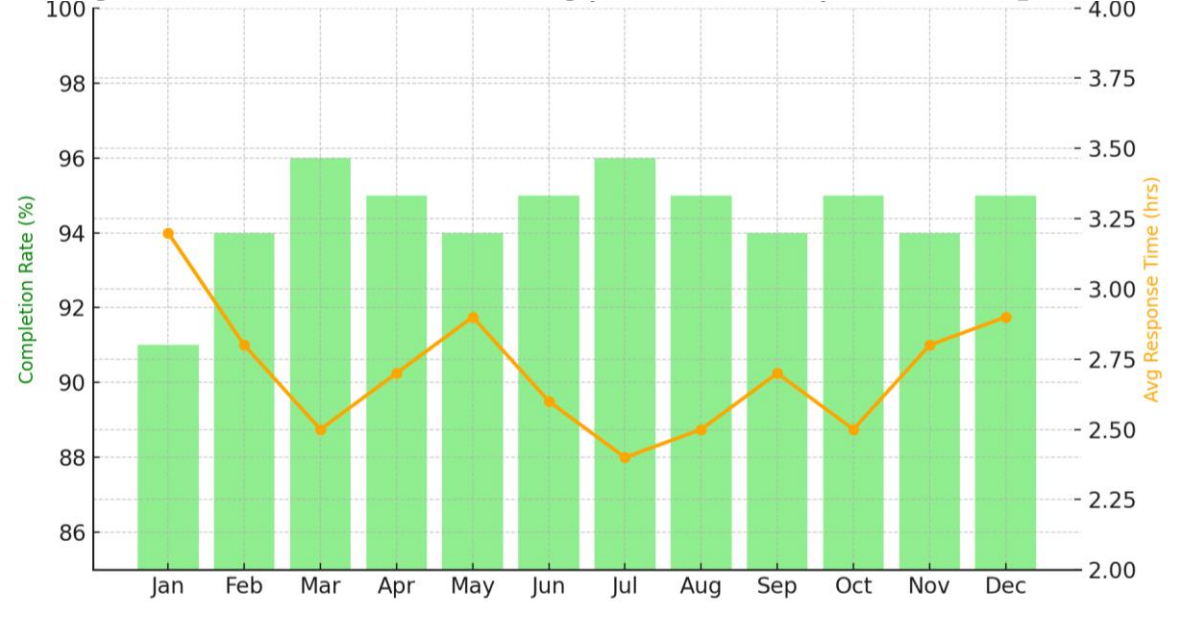
3. Waste

Planning, implementation, monitoring and/or evaluation of all programs related to WASTE Management through the utilization of Information and Communication Technology

Smart Maintenance Tracking and Performance Dashboard (Sewage & Facility Requests, 2025–2026)

This Power BI–style dashboard illustrates Gulf University’s integration of ICT systems for smart maintenance tracking. Using the internal ERP platform linked with Microsoft Power BI, the Facilities Department monitors sewage and plumbing maintenance activities in real time. Data analytics provide insight into monthly request volumes, completion rates, and response times, improving operational efficiency and sustainability reporting.

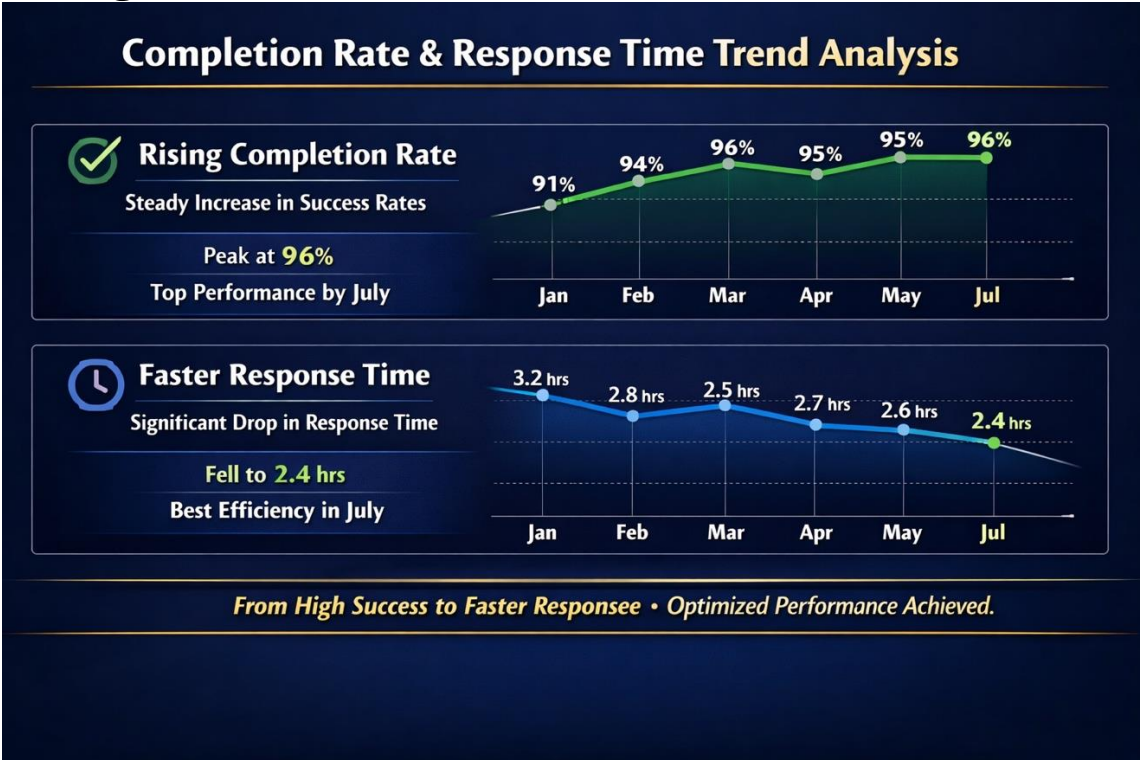
Figure 1: Smart Tracking of Maintenance Requests



Maintenance Performance Dashboard: Completion Rate & Response Time (2025-26)

The dashboard visualizes monthly logged, completed, and pending maintenance requests, showing how digital tools enable early issue detection and efficient scheduling of sewage-related maintenance tasks.

Figure 2: Maintenance Performance Dashboard



The chart below demonstrates maintenance performance metrics — completion rate and average response time — generated from ERP and Power BI data. The average response time for sewage-related requests remained under 3 hours, with an overall completion rate above 94%, reflecting efficient management and monitoring. These tools contribute to sustainable campus operations, reducing downtime and preventing potential environmental issues. The integration supports Gulf University’s commitment to digital transformation, sustainability, and effective infrastructure management in line with SDG 9, SDG 11, and SDG 13.

Table 1 – Smart Maintenance Tracking (Sewage & Facility Requests 2024–2025)

Month	Requests Logged	Completed	Pending
Jan	22	20	2
Feb	18	17	1
Mar	25	24	1
Apr	20	19	1
May	17	16	1
Jun	19	18	1
Jul	23	22	1
Aug	21	20	1
Sep	18	17	1
Oct	24	22	2
Nov	20	19	1
Dec	16	15	1

Table 2 – Maintenance Performance Dashboard (Completion Rate & Average Response Time)

Month	Completion Rate (%)	Avg Response Time (hrs)
Jan	91	3.2
Feb	94	2.8
Mar	96	2.5
Apr	95	2.7
May	94	2.9
Jun	95	2.6
Jul	96	2.4
Aug	95	2.5
Sep	94	2.7
Oct	95	2.5
Nov	94	2.8
Dec	95	2.9

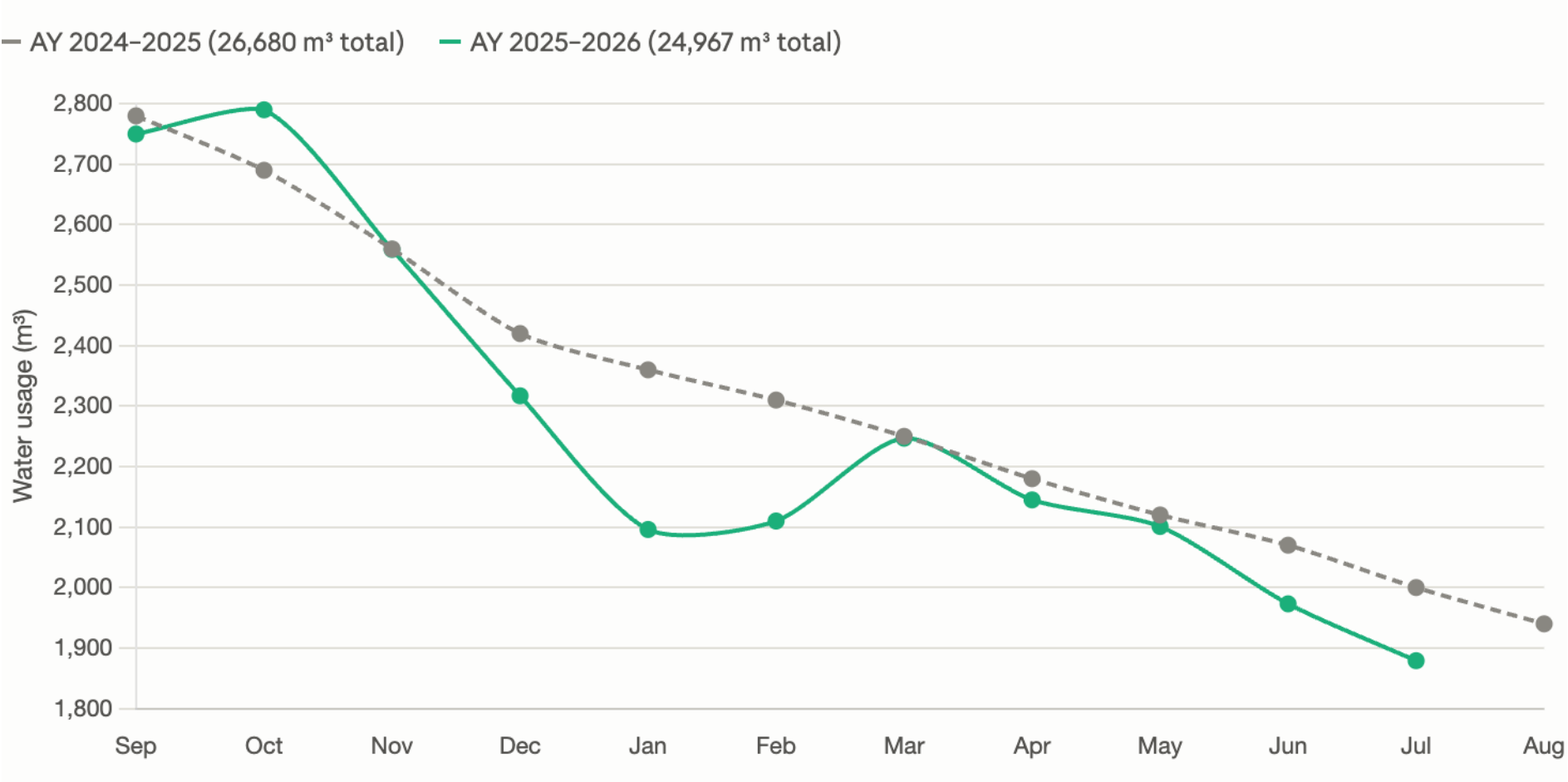
“Monthly log of maintenance requests, completion rates, and average response times generated from Gulf University’s ERP + Power BI system (2025–2026). Data supports smart tracking of sewage and facility maintenance for preventive planning and sustainability reporting.”

Maintenance Performance Dashboard: Completion Rate & Average Response Time (2025-26)

Stage	Activities / Programs	ICT Utilization	Evidence (2025–2026)	Timeline	Responsible Team / Department
Planning	Development of 3R Strategy and setting reduction targets for organic, inorganic, and toxic waste	Data analysis using Power BI dashboards, ERP waste tracking modules, and waste audit reports prepared through digital templates	Sustianability Report 2025-26	Jan–Feb 2026	Sustainability Office, IT Dept
Implementation	Execution of waste segregation, recycling bin installation, and partnership with Nidukki Waste Treatment Plant for inorganic & organic waste	Smart labeling & RFID tagging for bins; digital forms for waste collection; use of ERP Facility Management module for reporting	CECEC Annual Report 2025-26 (Tree-Planting, 3R Initiatives)	Mar–Apr 2026	Facility & Maintenance Management, IT Dept
Monitoring	Tracking total waste (organic, inorganic, toxic) through digital waste registers; comparison via internal Power BI dashboards	Integration of real-time dashboards (Power BI) to monitor volumes of produced, reduced, reused, and treated waste	Sustianability Report 2025-26	Continuous	SDM-C, ICT Dept
Evaluation	Annual audit and reporting of waste management performance indicators	Data visualization & automated KPI reporting using Excel-based audit sheets and ICT-generated analytics	CECEC Annual Report 2025-26	Annually (June 2026)	SDM-C CECEC, IT Dept

4. Water

Planning, implementation, monitoring and/or evaluation of all programs related to WATER Management through the utilization of Information and Communication Technology



Here's the year-over-year water usage comparison, styled in the same Power BI-dashboard line chart format as your reference image — both years plotted on the same Sep–Aug calendar axis so the seasonal pattern and the improvement between years are directly comparable. The gray dashed line is AY 2024–25 (26,680 m³ total); the solid teal line is AY 2025–26 (24,967 m³ total, through July — August 2026 isn't in your dataset yet, so that point is left open).

The chart makes the story visible at a glance: both years follow the same seasonal shape (high at the start of term, tapering through the year), but the 2025–26 line sits consistently below 2024–25 from December onward — visual confirmation of the ~6.4% year-over-year reduction we calculated earlier.

Stage	Activities / Programs	ICT Utilization	Evidence / Documents	Timeline	Responsible Team / Department
Planning	Develop campus-wide water efficiency strategy integrating smart irrigation, low-flow fixtures, and monitoring.	Data mapping via AI-Powered Smart Irrigation System Dashboard (registered Jan 2025, Deposit No. 2025/1927/184/i) to identify high-consumption zones.	SDM-C Annual Report 2025-26; AI Smart Irrigation registration certificate; GU Sustainability Strategy draft.	Jan – Feb 2026	Sustainability & Development Makers Center (SDM-C), ICT Dept
Implementation	Install water-saving fixtures and pilot automated irrigation system in Sustainable Engineering Hub. Conduct awareness training through CECEC.	IoT sensors and cloud-linked irrigation controllers transmitting data to the ICT server; digital dashboards to visualize real-time water use.	CECEC Annual Report 2025-26 (AI in Sustainability Program); Installation logs; Smart Irrigation media coverage.	Mar – Jun 2026	Facility Management, ICT Dept, SDM-C
Monitoring	Track daily water use and leak detection via digital meters and dashboard analytics.	Real-time data visualization software and IoT alert system generating automatic usage reports and notifications.	Water-usage summary dashboards; Smart-meter readings; Internal sustainability reports.	Continuous	ICT Dept, Facility Management
Evaluation	Analyze water-saving results and performance against annual targets; integrate data into GU GreenMetric submission.	Microsoft Power BI & Excel analytics tools used for comparative reporting and visual KPI dashboards.	SDM-C Annual Evaluation 2025-26.	Annually (Aug 2025)	Sustainability & Development Makers Center, ICT Dept, QADC

Monthly Consumption of Water at GU

Month	Usage (m³)	Per Capita (liters/day)	Change vs. Previous Month (%)
Aug 2025	1 940	33.3	—
Sep 2025	2 750	48.8	+41.8
Oct 2025	2 790	47.9	+1.5
Nov 2025	2 559	45.4	−8.3
Dec 2025	2 317	39.8	−9.5
Jan 2026	2 096	36.0	−9.5
Feb 2026	2 110	40.1	+0.7
Mar 2026	2 247	38.6	+6.5
Apr 2026	2 145	38.1	−4.5
May 2026	2 101	36.1	−2.1
Jun 2026	1 973	35.0	−6.1
Jul 2026	1 879	32.3	−4.8
Annual Total (Sept 2025 – Jul 2026)	24 967 m³	≈ 39.8 liters/person/day	↓ ≈ 3.1% (Aug–Jul)

Conclusion:
During 2025–2026, Gulf University fully integrated ICT-enabled water management across all stages—from planning to evaluation—by deploying AI-driven irrigation, IoT monitoring, and Power BI analytics, demonstrating measurable progress toward SDG 6 and SDG 13.

5. Transportation

Planning, implementation, monitoring and/or evaluation of all programs related to Transportation through the utilization of Information and Communication Technology (ICT)

Stage	Activities / Programs	ICT Utilization (2025–26)	Evidence / Output	Timeline	Responsible Department
Planning	Assessment of transportation needs and shuttle-route design.	Use of GIS mapping tools and Power BI route analytics to model demand patterns and traffic flow within and around campus.	Transport needs reports, digital route maps.	Jan–Feb 2026	IT Department, Facilities & Transport Unit
Implementation	Launch of Smart Shuttle and carpool system.	Deployment of IoT GPS-enabled tracking devices and the GU Smart Move Portal (beta) for real-time shuttle location and estimated arrival times.	Screenshots of live tracking dashboard, Smart Move app demo.	Mar–Apr 2026	IT Dept, Sustainability Committee
Monitoring	Tracking daily shuttle usage, optimizing routes, and assessing performance.	Integration with Power BI Mobility Dashboard showing trip frequency, passenger load, and carbon-savings metrics.	Usage analytics, route optimization reports.	Planning	IT Dept, Facilities Management
Evaluation	Evaluate efficiency, emissions reduction, and commuter satisfaction.	Use of digital feedback forms, QR-coded surveys, and data analysis to measure ridership satisfaction and emission trends.	Annual transportation impact report, survey results.	Jun–Jul 2026	SDM-C, IT Dept

Executive Summary:

Gulf University applies ICT-driven systems to design, operate, and evaluate all transportation programs on campus.

In 2025–2026, ICT played a central role in planning routes, managing shuttles, monitoring emissions, and analyzing transport data to ensure efficiency and environmental sustainability, supporting SDG 9 (Industry, Innovation & Infrastructure), SDG 11 (Sustainable Cities & Communities), and SDG 13 (Climate Action). By combining IoT devices, Power BI analytics, and real-time data dashboards, GU ensures operational efficiency, carbon reduction, and safety—translating digital transformation into tangible sustainability outcomes across its transportation network.

DTC contributes to SDG 13 through ICT-enabled infrastructure: a dedicated Energy & Climate Change monitoring framework (Power BI carbon-footprint tracking), a smart maintenance dashboard explicitly mapped to SDG 9/11/13, and a Smart Shuttle/Carpool system (GU Smart Move) tracking carbon-savings metrics — closing the previously identified DTC gap on GU's top-performing SDG.

6. Education and Research (ED)

Planning, implementation, monitoring and/or evaluation of university Education & Research activities through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Identify key areas of sustainability for research focus	Research management software	Research focus documents, funding proposals	Jan 2025 - Mar 2026	Research Office, ICT Dept
Implementation	Fund and support research projects on sustainability	Digital grant management systems	Funding records, project reports	Apr 2025 - Dec 2025	Research Office, Finance Dept
Monitoring	Track research progress and publication output	Research tracking tools	Publication databases, progress reports	Ongoing	Research Office, ICT Dept
Evaluation	Evaluate the impact and quality of publications	Citation analysis tools, peer review systems	Impact assessment reports, citation metrics	Annually	Research Office, ICT Dept



Grant Management System

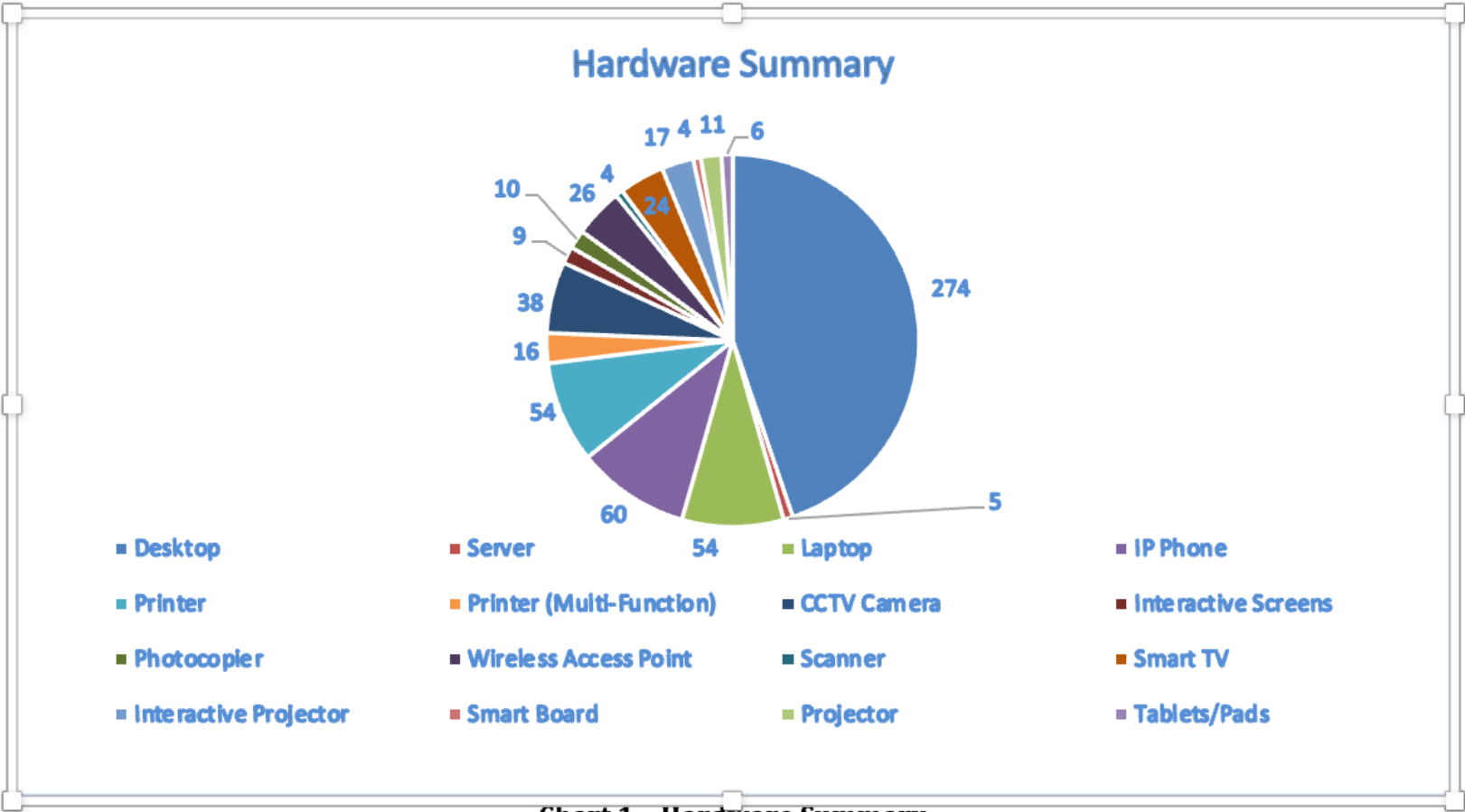


Chart 1 - Hardware Summary

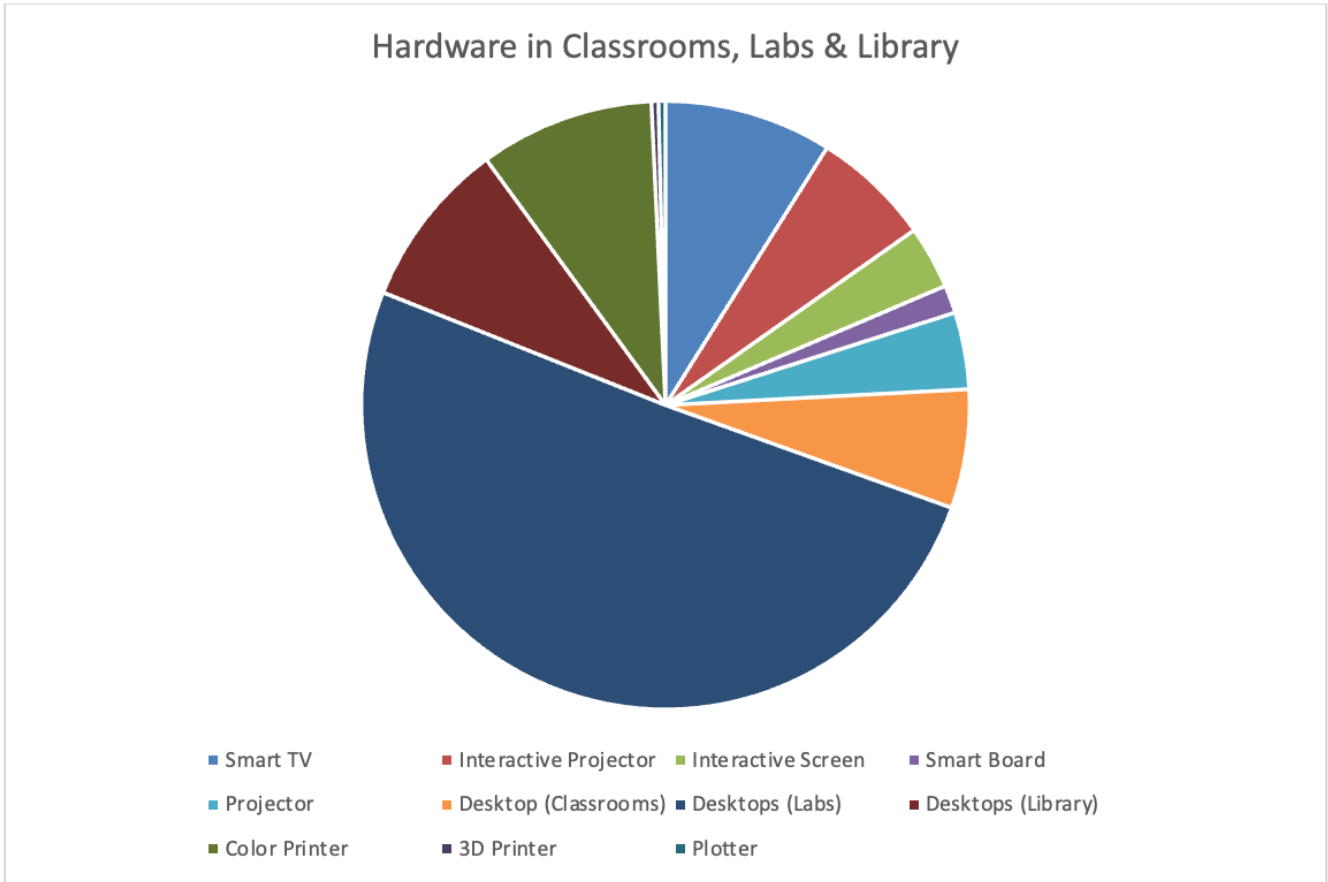
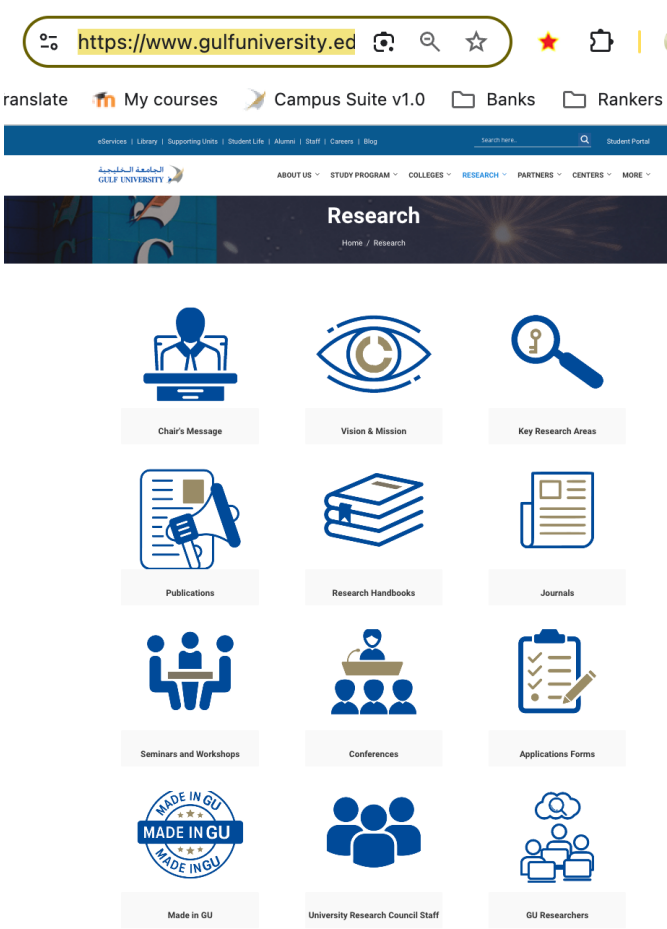


Chart 3 - Hardware in Classrooms and Labs

Description:

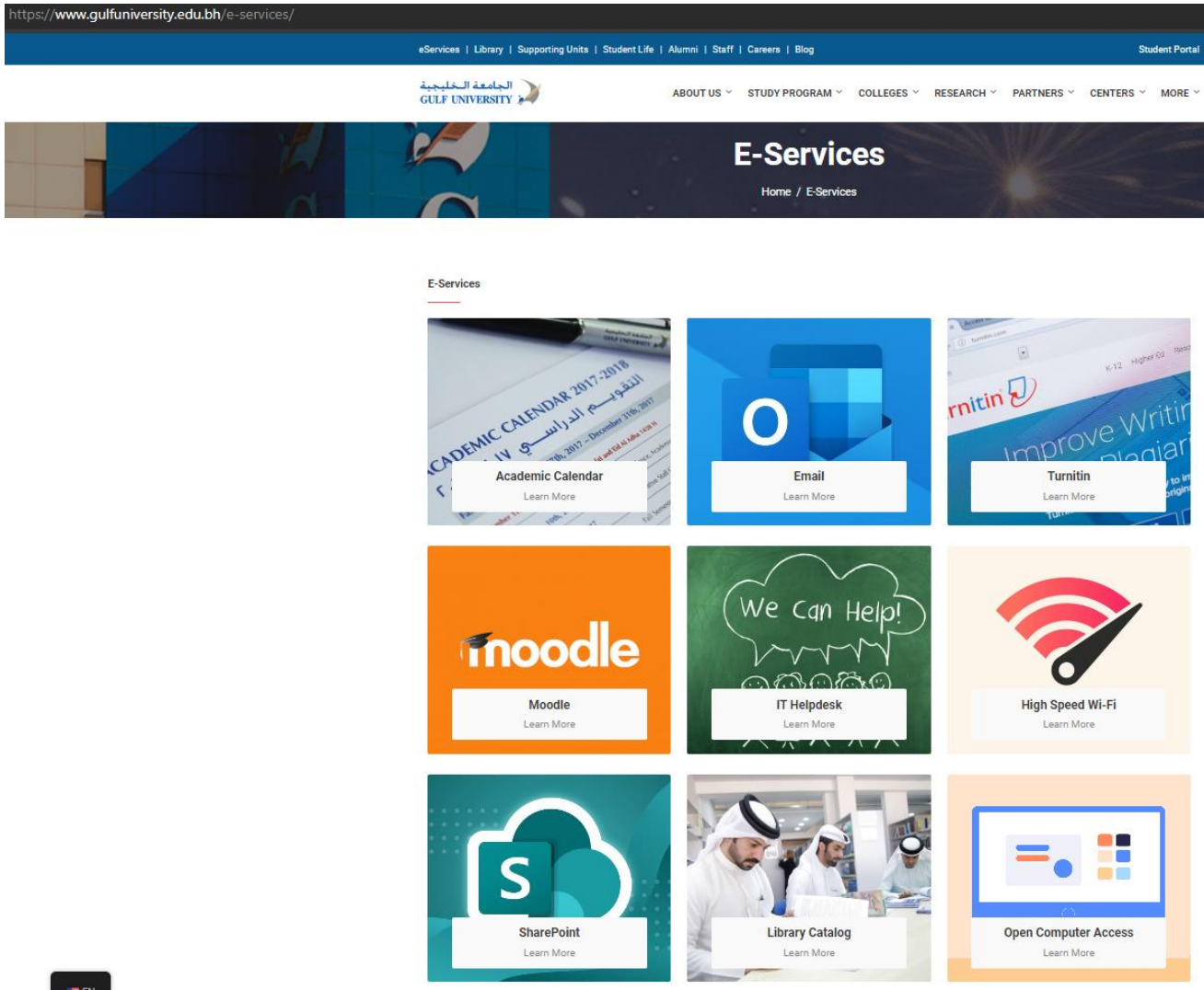
Gulf University is actively engaged in all phases of sustainability, reinforcing its commitment to environmental responsibility and academic excellence. As part of this vision, the University provides Scholarships up to 50% as a form of Digital Financial Inclusion through its student portal — ensuring that access to quality education is both equitable and future-focused:

- **Planning:** Gulf University identifies key areas for sustainability research, securing funding for projects. The institution uses research management software “**MyLOFT website and Mobile App for GU Library**” it assist in organize activities for research, manage funding proposals, and ensure alignment with sustainability goals.
- **Implementation:** Gulf University allocates funding and support for sustainability research projects, providing researchers with necessary resources. The university utilizes softwares to streamline funding processes and efficiently track research projects.
- **Monitoring:** Gulf University closely monitors the progress of sustainability research and tracks the production of scholarly publications. Research tracking tools are employed to oversee publication output and research milestones effectively.
- **Evaluation:** Gulf University evaluates the impact and quality of sustainability publications. The institution uses citation analysis tools and peer review systems to assess the reach and influence of research on sustainability goals at Gulf University.



4.5. IT Services and eService Display on University Website

The IT Services including eServices are displayed at the university main website for an easy access to end users. All the IT services are subjected to related policies and procedures. End users are requested to agree on terms and condition as per Acceptable Use Policy upon receiving user account information from IT Department.



5. IT Services for Targeted Groups

NO.	Service	Students	Faculty Members	Researchers	Admin Staff	Visitors
1	High speed internet (Up to 850 Mbps)					
2	eLearning (Moodle)					
3	Email					
4	OneDrive Storage					
5	SharePoint Intranet					
6	Office 365 Other Applications					
7	Photocopy & Print					
8	Plagiarism Detection - Turnitin					
9	Essential Software					
10	Learning Support Software					
11	Open Computer Access					
12	Workshops & Training					
13	Telephone					
14	Computers & laptops					
15	Collaboration (Office 365-Creatrix)					
16	High Performance Computing					

Table 1 – List of IT Services and eServices

6. Student Portal

Student Portal is accessible from Gulf University main website [Student Portal - Gulf University, Kingdom of Bahrain](https://www.gulfuniversity.edu.bh/student-portal/) to provide easy to Learning Management System (Moodle), Student Information System (Campus SIS) and Office 365.

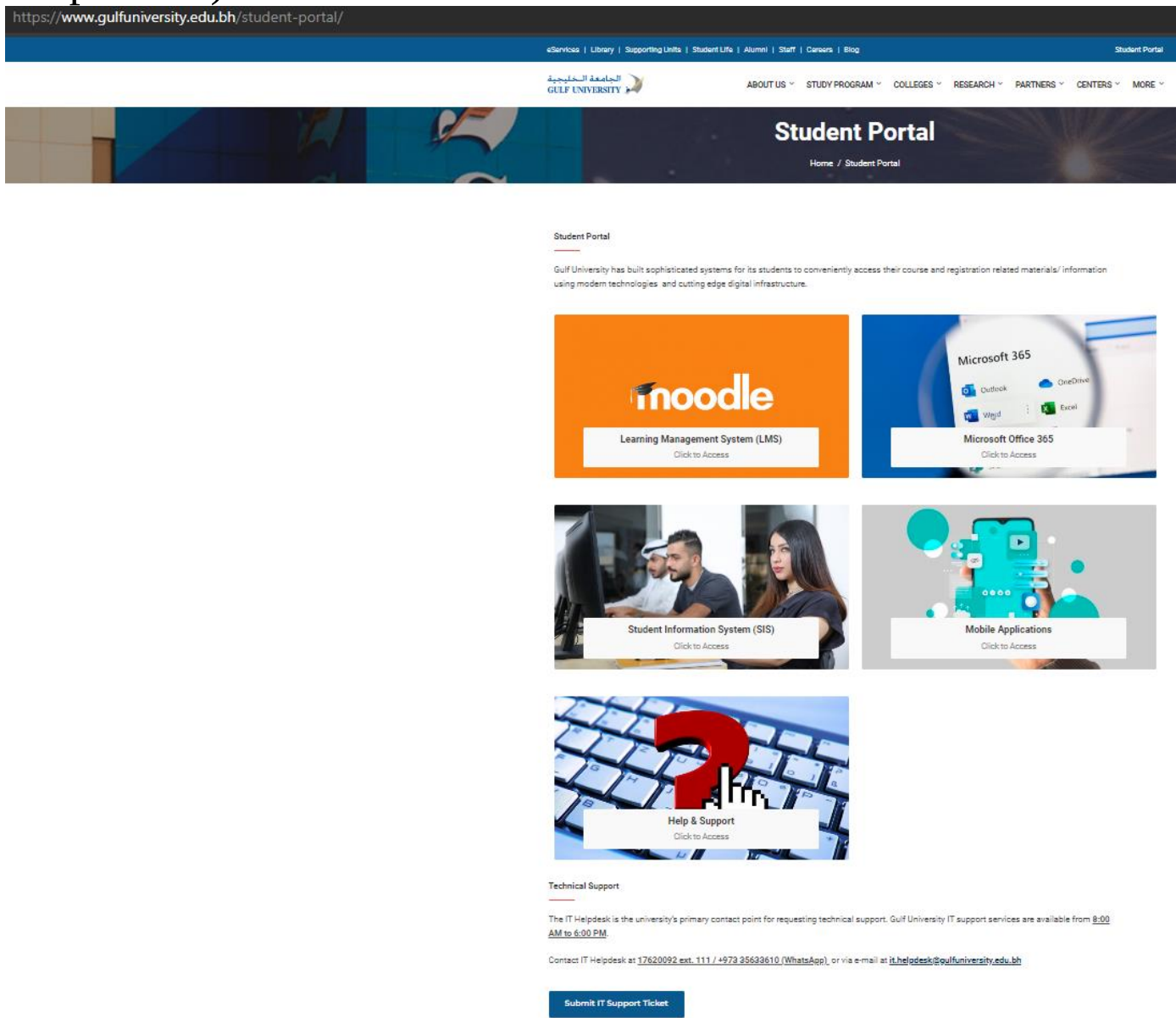


Figure 2 – Student Portal on the university website.

7. Mobile Applications

Following is a screenshot from the Student Portal → Mobile Application page on the university main website. The page has two categories; Essential and Other Useful Mobile Apps. We will list the main features of essential apps in this report.

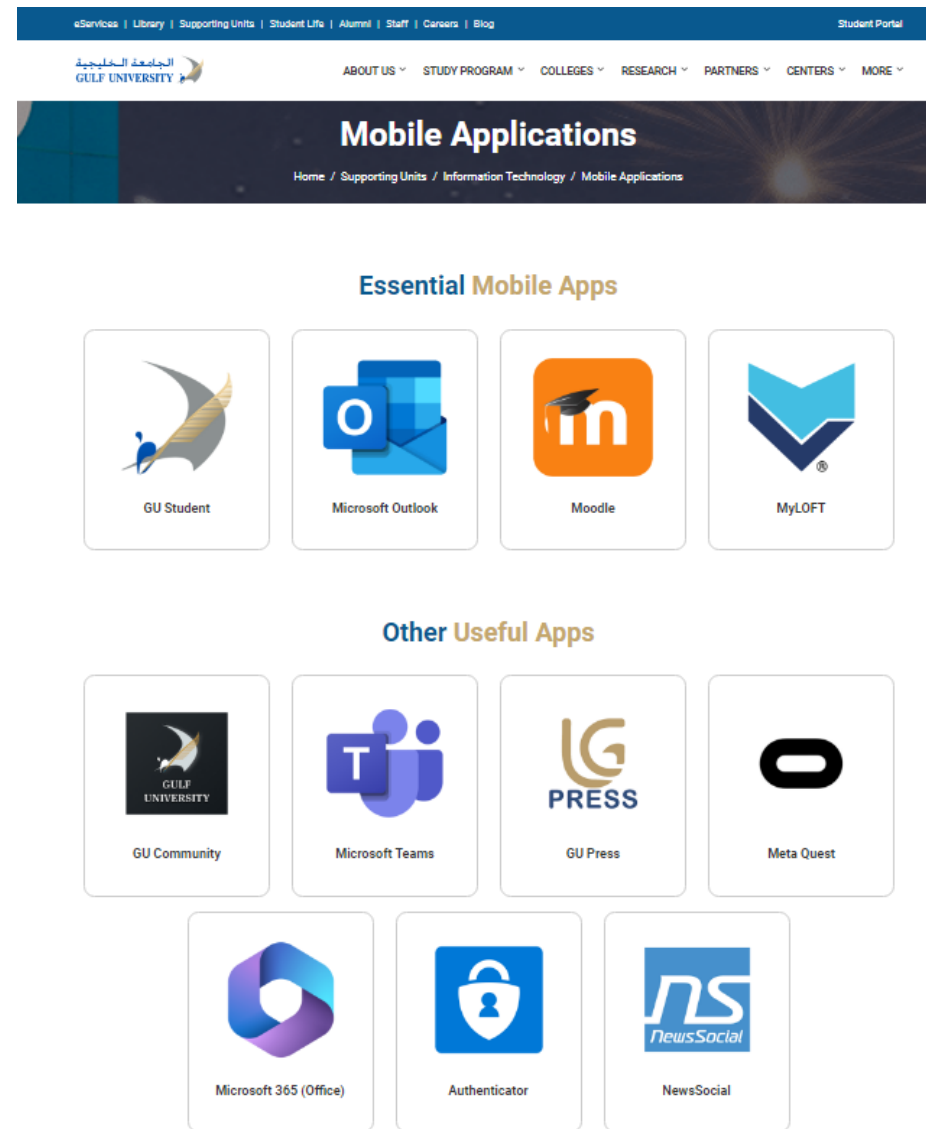


Figure 3 – Mobile Applications page on the university website.

7.1. GU Student Mobile App:

Gulf University Student App is an extension for the web-based student portal dedicated for undergraduate and graduate students at the Gulf University in Bahrain, the App enriches students' educational experience through improved accessibility, functionality, and enhanced user experience. The app bringing together the information of faculty, students, teaching material, assignments, and student grading in a single platform. The Gulf University Student App is designed to provide effective feedbacks by the faculty and enables for the self-learning of students.

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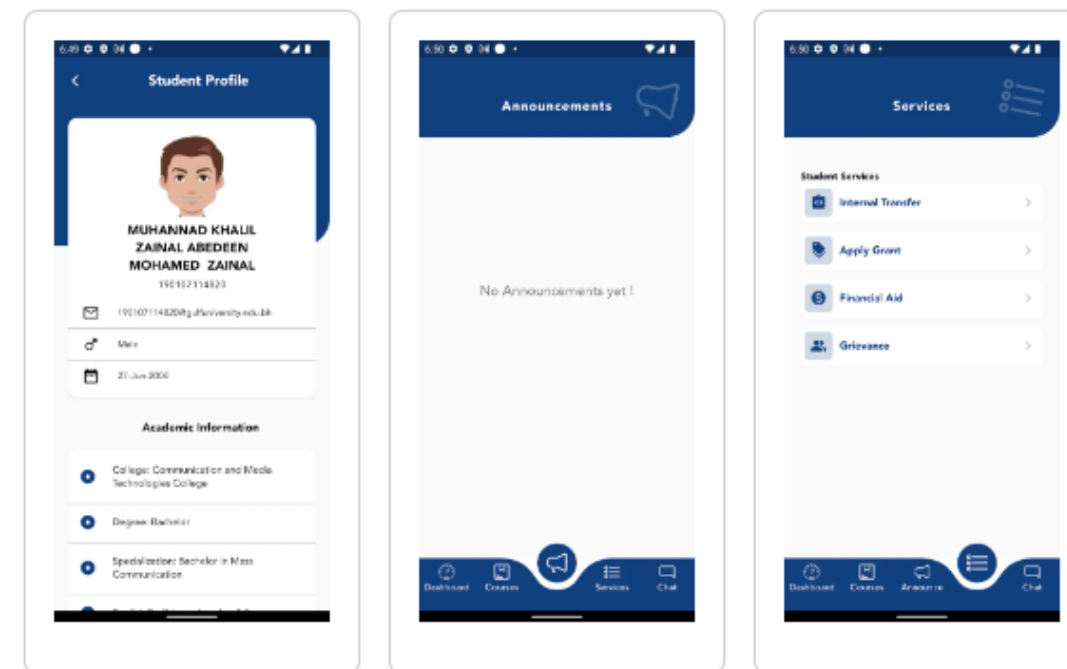
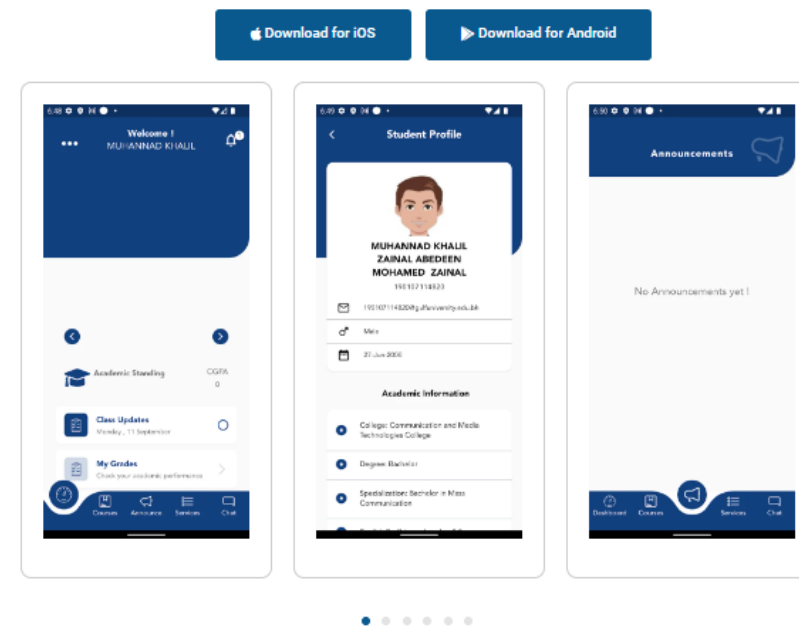


Figure 4 – GU Student Application page on the university website.

7.2. Moodle Mobile App:

The Learning Management System (Moodle) Mobile Application for students works with Moodle sites that have been set up to allow it. If your Moodle site has been configured correctly, you can use this app to:

- Browse the content of your courses, even when offline
- Receive instant notifications of messages and other events
- Quickly find and contact other people in your courses
- Upload images, audio, videos and other files from your mobile device
- View your course grades and more!

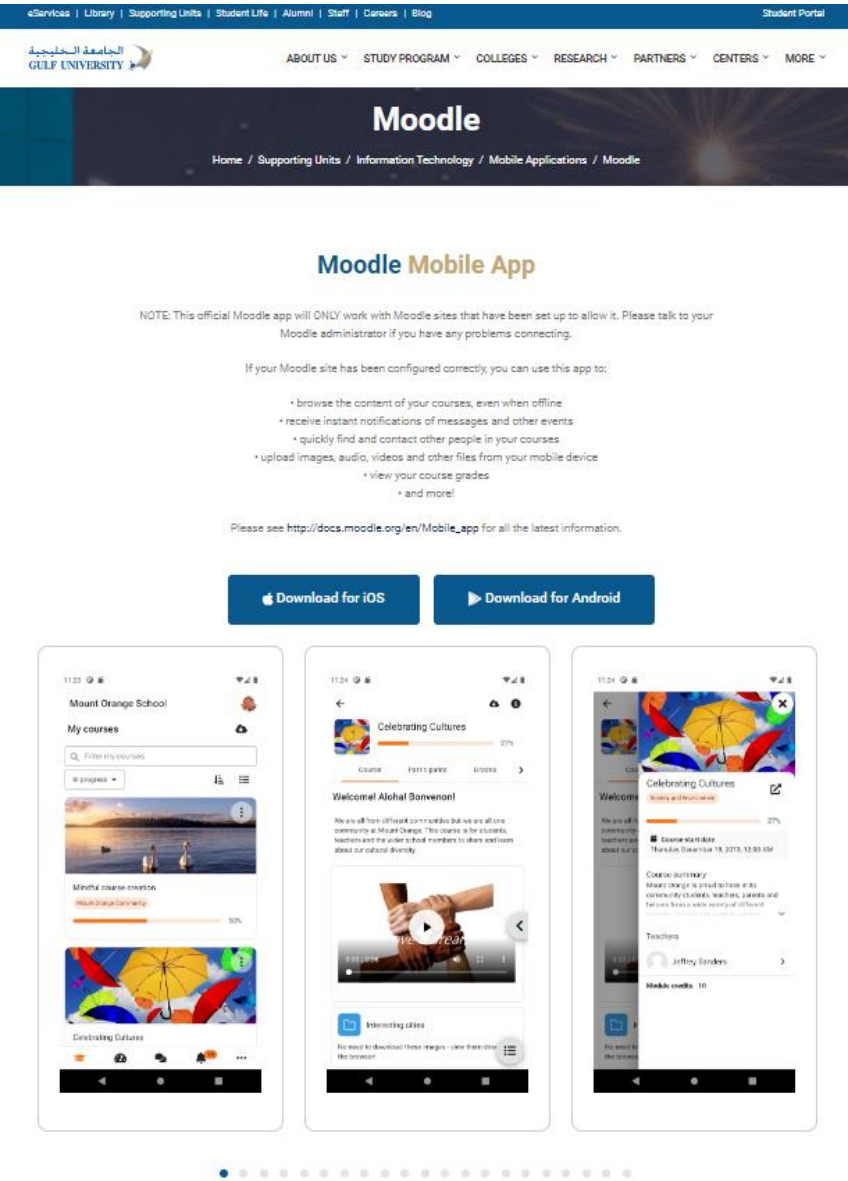


Figure 5 – Moodle Mobile Application page on the university website.

7.3. Outlook Mobile App:

Outlook Mobile App allow students to connect and coordinate with their classmates and instructors. Allowing them to stay on top of day through a secure email and calendar app.

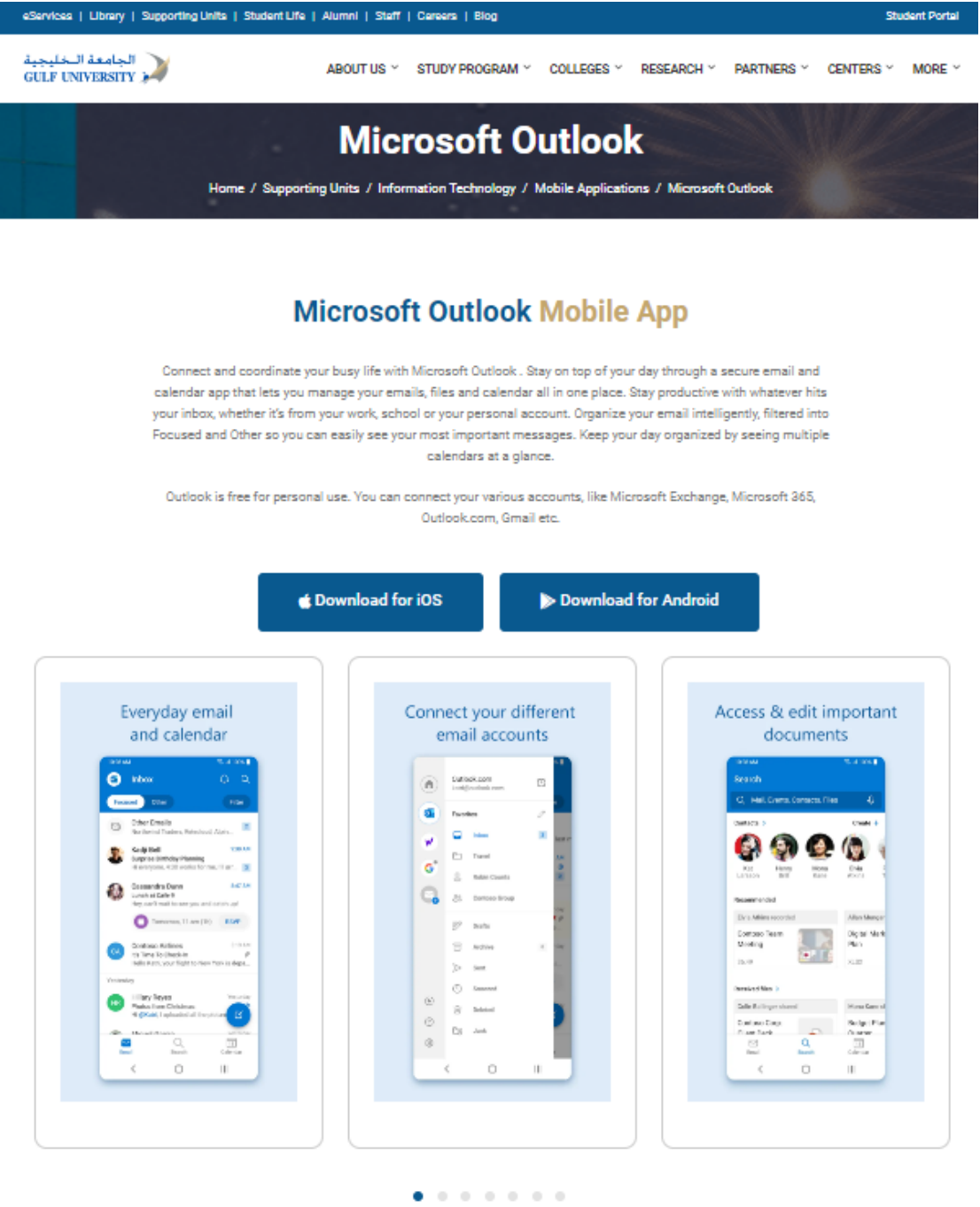


Figure 6 – Outlook Mobile Application page on the university website.

7.4. MyLOFT Mobile App (Library):

MyLOFT is a student personal library. It is one place to Access-Organize-Share e-Content and library subscribed scholarly resources of the student professional & personal interests.

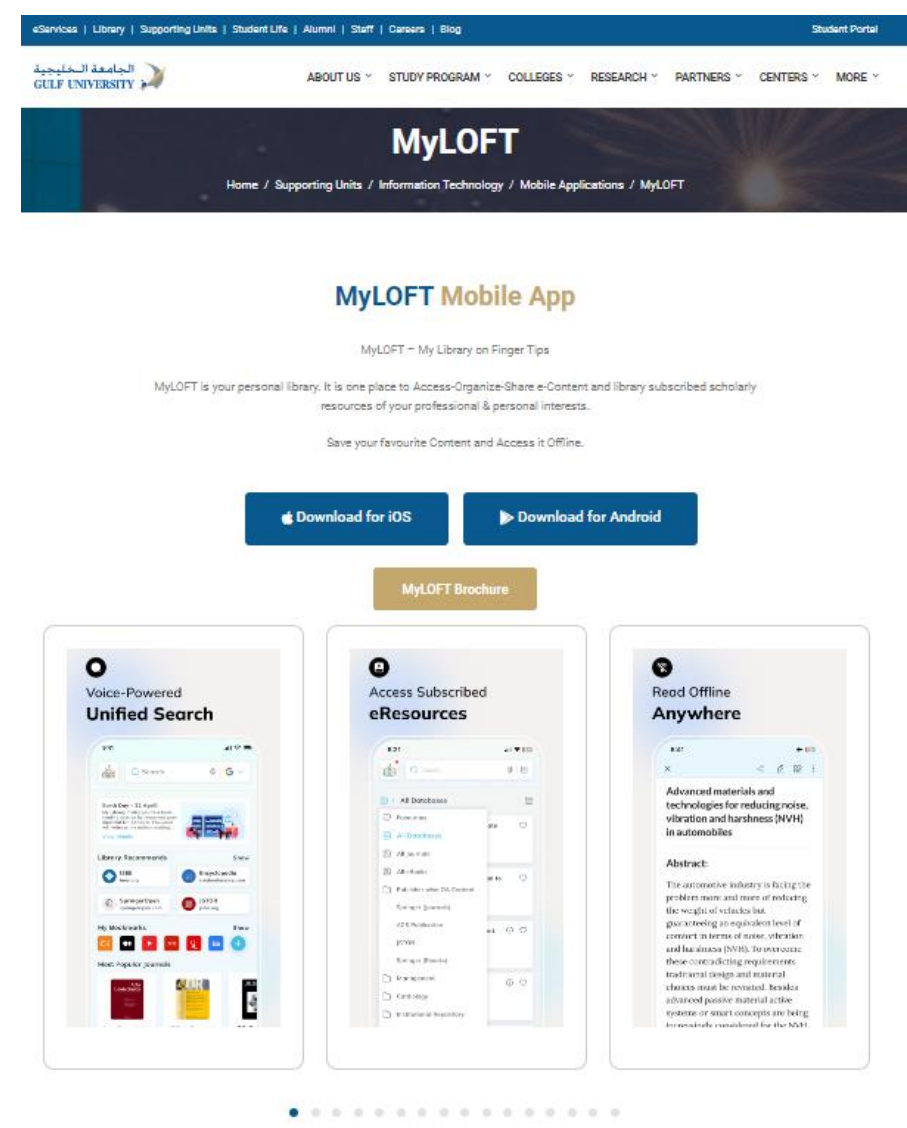


Figure 7 – MyLOFT Mobile Application page on the university website.

Reference:

<https://www.gulfuniversity.edu.bh/research/>
<https://www.gulfuniversity.edu.bh/supporting-units/information-technology/>