



SUSTAINABLE
DEVELOPMENT
GOALS



***SDG
ANNUAL REPORT
2023***

AIR UNIVERSITY
SUSTAINABLE DEVELOPMENT GOALS

A MESSAGE FROM OUR VICE CHANCELLOR



AIR MARSHAL JAVAID AHMED,
HI(M) (RETD)

It is an honour to serve as the Vice Chancellor of Air University, a thriving hub of academic excellence with a culture of research and innovation and a strong commitment to concept-based learning. Our highly trained faculty and staff provide a conducive environment for efficient and knowledge-driven pursuit of higher education objectives. With nation-building as our focus, we embrace and cherish our responsibility as a leading university of Pakistan, to produce professionals with the knowledge, skills and opportunities to materialise United Nations' 17 Sustainable Development Goals (SDGs). Our faculty, staff, and students are working diligently to incorporate these SDGs into their work to promote economic prosperity, social inclusion, environmental sustainability, and good governance. We are pursuing technologies, innovations, and evidence-based knowledge to generate solutions and pathways for implementation of these SDGs. Today, we are excited by the recognition of our efforts in the Impact Rankings 2022 which place Air University at the ___ position in Pakistan and ___ position internationally, for implementation of the UN SDGs. To that end, I invite the brilliant minds of Pakistan to join us in our endeavours to make a positive contribution to the future of Pakistan."

It has been discovered during the past few years that the world has begun to institutionalize sustainable development, community engagement in energy and climate, water conservation, transportation, and research and education programs into their systems or operational procedures. By combining social and environmental dynamics into the decision-making processes, it is more likely to build a sustainable operational framework that is substantial to the environment. The UN Sustainable Development Goals have established standards for all international institutions to embrace best practices and offer a course for the best application of the plans in the future. In order to develop a strong culture of sustainable development goals and successfully achieve all indicators to globally deal with all networks who are highly involved to make this target achievable, the AU Quality Enhancement Cell is responsible for promoting higher standards of education, research, innovation, teaching, and adoption of new technologies and methods with the collaboration of the concerned departments in the University in accordance with the national agenda for pursuing the UN 17 X SDGs. In this report, we list a few of the numerous initiatives our university is involved in to help the SDGs be achieved. We are unable to fully describe the outstanding work done by our staff, students, and collaborative partners in the areas of social participation and contribution, performance assessment, student learning, and academic excellence and research. As an appreciation of the many initiatives taking place inside the University, we have instead chosen to highlight a few of them here. These activities notably show our dedication to sustainability and our role in ensuring a more sustainable future for everybody.

A MESSAGE FROM AU DIRECTOR QUALITY ENHANCEMENT CELL



AIR CDRE (R) AHMED HASSAN



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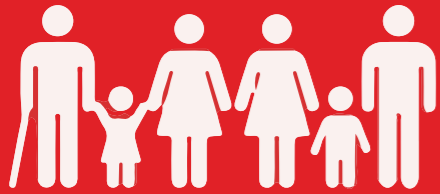
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1 NO POVERTY



END POVERTY IN ALL ITS FORMS EVERYWHERE

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9

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FYP

Social Contribution & Participation

Air University has taken a proactive approach to public engagement by establishing a dedicated student support center that plays a vital role in providing academic advising and career counseling services. Moreover, the center organizes leadership workshops that aim to help students uncover their potential and develop essential skills.

In addition, Air University fosters a sense of community through its student community group and student clubs, which actively work towards assisting underprivileged students in overcoming their challenges. These clubs collaborate with the Department of Student Affairs to organize workshops and training sessions, ensuring that every student has access to valuable resources and opportunities.

Importantly, Air University promotes inclusivity and rejects any barriers based on ethnicity or social class. It warmly welcomes students from all backgrounds, encouraging them to participate and benefit from the diverse benefits it offers. The university places a strong emphasis on austerity measures, discouraging students from prioritizing material possessions over the well-being of others who may not have the means to afford them. Air University firmly believes that providing the best possible education to every



student, regardless of their background, bring widespread benefits to society as a whole.

Research Analysis

Air University is committed to uplifting talented underprivileged students from rural areas who experience financial limitations, enabling them to access higher education opportunities. Our objective is to empower these students for a prosperous future by providing them with state-of-the-art technological resources, promoting university research, and facilitating employment prospects. To address the financial obstacles and ensure equitable education, Air University has implemented an online learning management system. This initiative is driven by the aim to alleviate poverty, foster gender equality, and eliminate discrimination in both rural and urban communities, fostering a comprehensive and inclusive educational environment.



Performance Assessment

(Scholarship and Financial Aid support)

AU Sponsored MS & Ph.D. Programs

AU pays back to society through Graduate Research Initiative Program. This program enables the students to take on professional challenges for excellent leadership careers in academia and industry. This scheme offers

the following benefits for selected candidates. It has three different schemes accordingly head of departments decides the scholarships based on students' performance.

Educate to Innovate Scholarship Scheme

This scheme offers Full and Partial fee waiver to students with bright academic record Chance to work as apprentice in industry projects after 1st semester for students with bright academic record and relevant skills

AU Need-Based Financial Grant

Through this scheme, AU funds each semester needy students who face financial constraints ranging from 25% to 100% of tuition fee discounts. The range of discounts is determined based on an individual's financial circumstances.

AU Merit-Based Scholarship

Air University offers Merit-based scholarships to all outstanding students enrolled in different undergraduate and graduate programs based on their semester results(a) 1st Position Holder 50% Tuition Fee Waiver, 2nd Position Holder 40% Tuition Fee Waiver and 3rd Position Holder 30% Tuition Fee Waive

PAF Ward concession & AU Employee Concession

AU grants 25% tuition fee discount to PAF Wards and 50% discount to AU Employees and their wards

Ehsaas Undergraduate Scholarship Project (EUSP)

Ehsaas Scholarship program launched in 2019 by the Govt through HEC. Students with combined family income \leq 45,000 per month can apply for this scholarship at HEC portal and the scheme is announced every year. The selected candidates would get 10% Tuition fee waiver and Rs. 20,000 per semester stipend.

Fazaia Educations Welfare Scheme (FEWS)

Other than 25% Tuition Fee discount PAF Wards studying at AU campuses can avail additional funding from FEWS ranging from 25% to 100%. They can also apply for Qarz-e-Hasana from FEWS.

Punjab Education Endowment Fund Scheme (PEEF)

This scheme offers AU students avail 50% of Tuition Fee discount in each semester through PEEF as per the laid down criteria set by the Punjab Govt to sponsor the higher education of deserving students. Max income threshold is \leq Rs. 30,000 per month.

PM Tuition Fee Reimbursement Scheme

Through this scheme students hailing from the less developed areas of Pakistan (Selected areas) can avail of funding opportunities at the Graduate and Postgraduate level from the Higher Education Commission (HEC).

Student Learning & Academic Excellence

Out of 9000 students, more than 5000 students from low-income households received financial aid from Air University Islamabad over the past three years.. The University has set a goal of providing low-income students with all of the scholarships offered through these programs. All of the students in this category who

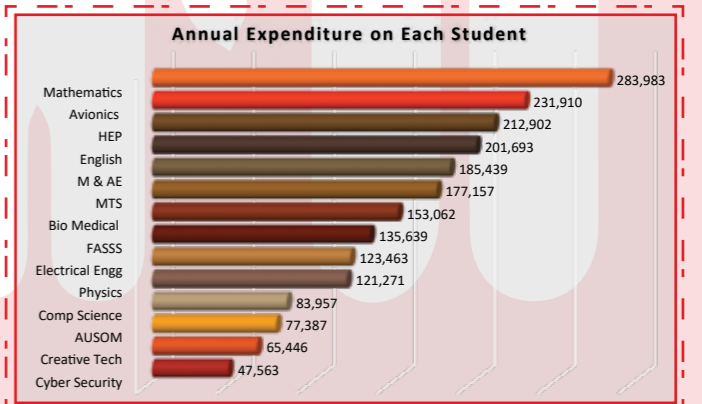


get financial aid ultimately earn a university degree. For the purpose of retaining their scholarships, students are expected to maintain a 3.00 CGPA or above during their studies for the continuation of scholarships

Scholarship /Financial Aid Data



Annual Expenditure on Each Student



2 ZERO HUNGER



END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

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FYP

Social Contribution & Participation

Air University Fundraising Competition for Turkey and Syria Earthquake Victims

The initiative was taken by the student affairs department, which identified student teams from various programs to participate in this cause. Teams that participated in the fundraising event for

earthquake victims implemented their business ideas to generate income through various channels. A distinguished panel of judges, including academics, business-people, and representatives from nonprofit organizations, evaluated the participating teams. The judges considered the practicality and originality of their business concepts, the success of their fundraising efforts, and their overall contribution to the cause. Outstanding teams were recognized and awarded certificates, mentoring opportunities, or cash prizes to support their entrepreneurial endeavors. Through these initiatives, the event empowered teams to take concrete actions, generate income, and make a meaningful impact in supporting the earthquake victims.



Research Analysis

Promoting Sustainable Practices: Driving Food Waste Reduction for a Better Future

At Air University, we are dedicated to using research, education, and community engagement to create lasting change. Management of food waste is one of our main priorities. We have put in place effective processes for collecting and distributing leftover food from our cafeterias and events in conjunction with neighborhood non-governmental organisations (NGOs). By minimizing food waste, this strategy also addresses the problem of hunger in our neighbourhood. We also give priority to green purchasing methods. We encourage ethical farming practises and lessen the impact of food production and transportation on the environment by collaborating with regional and sustainable food suppliers. By doing this, we can guarantee that the food served on campus complies with our commitment to sustainability.

Performance Assessment



Air University Food Management Policy and Operations

Air University is dedicated to promoting sustainability and responsible consumption through its Food Management Policy. This policy aims to reduce food waste, foster sustainable food practices, and enhance the overall well-being of the university community. It focuses on minimizing food waste, promoting responsible consumption, and supporting sustainable food systems. The university recognizes the value of food and aims to raise awareness among the community about making sustainable food choices. This includes considering nutrition, ethical sourcing, and environmental factors when making food-related decisions.

Air University Cafeteria

Air University has implemented a comprehensive recycling and composting program, educating staff and students about proper waste sorting and providing clearly labeled bins to divert waste from landfills. Minimize the use of single-use items by opting for reusable or biodegradable alternatives like cutlery, plates, and cups. Encourage staff and students to bring their own containers for takeout or leftovers, reducing waste generation. Promote energy efficiency by using energy-efficient appliances, such as refrigerators, ovens, and dishwashers, in the kitchen and cafeteria. Install LED lighting throughout the cafeteria to reduce energy consumption. Develop an energy management plan with guidelines for staff to minimize energy usage during non-peak hours. Conserve water by installing low-flow faucets, toilets, and dishwashers.

Student Learning & Academic Excellence

Encouraging Food Management Awareness for Sustainable Practices

Air University's student affairs department has taken the initiative to educate students about food waste management and its consequences through the establishment of the Shaor Society. Through workshops and activities, the university aims to raise awareness about both national and campus food security. The Shaor Society's main focus is on sustainable development goals and meeting fundamental needs. The Air University Shaor Society successfully planted over 500 plants to contribute to the preservation of the environment and ensure food security.

Enhancing the Food Management Feedback System for Continuous Improvement

Air University's feedback system has been successful in gathering valuable information about customer satisfaction and the performance of food contractors. With high student participation, over 6500 out of 9000 students, the university demonstrates a commitment to continuous improvement and meeting community expectations. The majority of students expressed satisfaction with the food's hygienic conditions, reflecting the university's focus on cleanliness and food safety. More than 80% Faculty and staff also expressed high levels of satisfaction, indicating that the meals offered meet their expectations. The monthly feedback forms enable consistent monitoring and evaluation of food services, ensuring responsiveness to evolving needs. The university can use the feedback to identify areas for improvement and make necessary adjustments to enhance the quality of meals served.



3 GOOD HEALTH AND WELL-BEING



ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

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Research Projects

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FYP

Social Contribution & Participation

Forging Partnerships for Enhanced Health and Well-being: Collaborating with Local and Global Health Institutions

Fazaia Medical College students actively collaborate with national and international health organizations, primarily through SYNCH (Solidarity among Young Nations for Change). SYNCH, consisting of over 60 medical colleges in Pakistan, prioritizes health, education, medical research, and welfare programs. By partnering with prestigious organizations like the World Health Organization (WHO), SYNCH enables collective efforts to address health concerns and drive positive change.

Air University Mental Awareness

Along with the Blood Donor Society, Air University Pakistan organised a mental health awareness event. The purpose of the event was to encourage mental health and increase understanding of the value of mental health in our community. Participants learned crucial information about maintaining excellent mental health and comprehending common mental health issues through interactive sessions, workshops, and educational speeches



Blood Donation Campaign

By forming its own blood donation group, Air University has taken concrete action to advance the admirable cause of blood donation. This organisation is essential in helping those in need in Pakistan's twin cities and its sb campuses by donating life-saving blood.



Research Analysis

Technology-Based Scaling-Up of Perinatal Depression Training Trial

Fazaia Medical College promotes technology-assisted training to educate healthcare professionals in remote areas, including post-conflict settings. By utilizing online platforms and virtual simulations, the college eliminates the need for travel and reduces costs. This approach also decreases the carbon footprint and improves scalability. Fazaia Medical College emphasizes sustainable and green practices in teaching and supervising lay health professionals in low-resource areas through technology-assisted training.

Evaluating the risk factors involved in various diseases, knowledge, and attitudes

Fazaia Medical College's Community Medicine Department promotes breast cancer, diabetes, and heart disease awareness in Pakistan. Programs are conducted throughout the year to educate both men and women. The college aims to empower the community by bridging

information gaps, fostering positive attitudes, emphasizing risk factors, and supporting screening practices for these diseases.

Performance Assessment



Holistic Health Facilities

Air University provides health facilities to staff, students, and faculty members on campus ambulance health insurance card facilities for major injuries and incidents which helps to carry patients to the hospital. It has a 600 bedded teaching hospital affiliated with Fazaia Medical College.

AU Healthcare Facilities

Air University provides health facilities to staff, students, and faculty members on campus ambulance facility for major injuries and incidents which helps to carry patients to the hospital. It has also given a large number of health insurance cards facilities to its staff and faculty members

Sports Participation Physical and Mental Fitness

The Sports Department of Air university is well equipped with sports gear for the training of Intervarsity sports events. It has a team of qualified and dedicated sports staff who is highly experienced with the methods of systematic sports and physical training.

AU Fitness Centre

Air University constructed a fitness center with commercial Treadmills, sit-up benches, Olympic flat benches, Leg press machines, other equipment to promote healthy settings.



Student Learning & Academic Excellence

AU Policy for Differently abled students

Because AU University believes in offering equal opportunities to all students, it has established a policy for differently abled students to ensure that they are treated equally.

Student Psychological counseling

Air University has established a Student Psychological counseling policy to safeguard students' well-being and to address their emotional, physical, and moral difficulties timely. A trained full-time clinical psychologist is hired for this purpose.



4 QUALITY EDUCATION



ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG OPPORTUNITIES FOR ALL

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Social Contribution & Participation

CPEC Center of Excellence at Air University School of Management

It aims to understand how the contribution of Export Processing Zones EPZs toward human welfare, in the post-CPEC scenario, can be maximized in Pakistan.



National Centre for Cyber Security (NCCS) Air University Islamabad

It will create a significant impact on Cyber Security Research and Development in Pakistan and promote the R&D Culture in specialized areas of Cyber Security.

Office of Research, Innovation, and Commercialization (ORIC)

ORIC has self-adopted its mandate to enhance the environment for all research activities and scholarship schemes by developing the university's strategic research directions and policies.

International Cooperation Office (ICO)

Through this network, more than 200 students have been sent to study abroad on scholarships to receive the greatest education possible.

Research Journals Forums

Air University has partnered with these journals to give its students the chance to publish high-quality papers in the Journal of Business & Economics, Journal for graduate research Erevna: Journal of Linguistics, and Literature corporum: journal of corpus linguistics



Research Analysis

Recognizing and overcoming obstacles to high-quality education

Air University Islamabad's Humanities, Education, and Psychology department prioritizes high-quality instruction, addressing weaknesses, and promoting strong student-teacher interaction. Through interactive teaching techniques, students are encouraged to think independently and engage collaboratively. These strategies positively affect cognitive, emotional, and motivational aspects of learning, fostering interest in academic subjects, enhancing motivation, and developing communication and teamwork skills.

Knowledge of artificial intelligence and how it will affect students' education and study

The Air University has taken the initiative to find AI material in student research projects and other projects for the sake of innovation and fresh ideas. Due to this, a committee and policy have been established to handle the issue of students using AI in their work. The University encourages the students to use their original ideas to solve the global warming problem both internationally and domestically.

Performance Assessment

Our Academics

Our university is offering more than 700 courses and more than 70 programs in vast disciplines.

Research Workshops

Students are provided an opportunity to augment their learning through practical work in the modern laboratories of all engineering departments.

Computing rooms

We have Fifteen (15) computer labs and one (1) language lab which is equipped with 510 high specs desktop computers.

Library Access to students

The Air University Central Library aims to enrich the learning, teaching, and research Programs of the University by providing timely access to high-quality scholarly information and learning material in a variety of formats

IPE at University Level Audit

The university conducts an institutional performance evaluation

each year to evaluate the performance of resources, staff, faculty, students, and infrastructure.

Programs Audit

We evaluate the programs performance each year to identify any unrecognized or unresolved issues in accordance with regulatory and accreditation bodies.

Progress of the Running programs at university

The graphical representation showcases the currently streaming program across the main campus and sub-campus of the university.



Student Learning & Academic Excellence

Learning Management System

A learning management system is a software application based on 4 integrated modules on LMS i.e MS Dashboard, LMS Students, Class Room and IT Helpdesk Services

Google Class room evaluation

One auditor has been assigned by AU QEC to monitor the performance of the students and teachers and their level of engagement in each department

Sustainable Course in Curriculum

Air University's curriculum includes 700 sustainable educational courses designed to help students expand their potential and study more effectively and provided the US \$ 4006835.68 in sustainable research funds.

Student and Faculty Feedback Mechanism

The teacher's evaluation is done at the end of each semester through student feedback and the performance of each faculty member is shared with the Deans and the Chair department which is disseminated to respective faculty members.

5 GENDER EQUALITY



ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

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Publications

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FYP

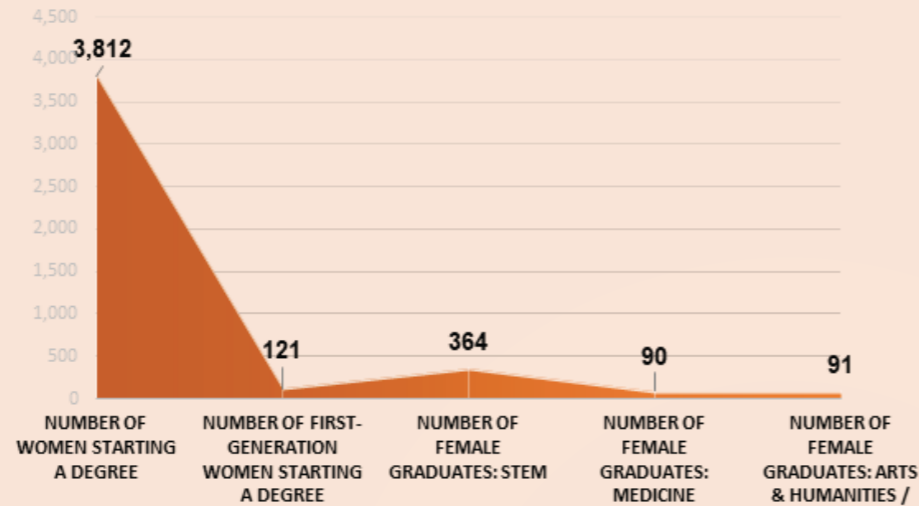
Social Contribution & Participation

Women in STEM

Women, the disabled, and minorities are especially encouraged to apply in any discipline at Air University. Men and women, people of all ages, sexual orientations, countries, religions, and beliefs are all welcome to apply to Air University, which believes in stimulating the positive value of variety, promoting equality, and challenging unfair prejudice. It has stated expressly in its selection and recruitment process policy that it will hire the best candidate for the job on the basis of merit. Faculties of those subjects where females are less, in those departments' women are encouraged to participate and joined the departments. Our 97 senior academic female staff members have been assigned to various educational departments

Research Analysis

In order to maintain a healthy number of both male and female professionals, our management sciences experts have investigated female entrepreneurs should be more promoted in every industry. Policymakers and academics must work actively to plan affirmative action-driven projects that will empower women professionals



and result in the achievement of gender equality in the workplace in order to solve the disparity. For promoting diversity in the workplace, Air University has appointed women to top official positions. Social Contribution and Participation

Women in STEM

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Performance Assessment

Equal Opportunity Policy

Air University follows an equal opportunity policy for all students, regardless of gender. We have admission policies and academic requirements in place to help with this. It has created a platform for women to flourish in the educational sector according to their own preferences and make career decisions.

Daycare Center

Air University has a Daycare Center accessible to all female employees. Female students with young kids are also accommodated in case of space availability. It supports women's participation and has a policy of paid maternity leave for 3 months.

Gender Discrimination

Our University is committed to making sure that fair and effective procedures and processes are implemented and adhered to when selecting and deploying people to fulfill organizational needs. All potential candidates will be assessed according to their skills, knowledge, qualifications, and capabilities. Regard will not be given to factors such as gender, marital status, race,

religion, physical impairment, or political opinions. Air University places a strong emphasis on merit-based promotions for its personnel and academics. It assesses them fairly depending on their academic performance.

Student Learning & Academic Excellence

Opportunity for apprenticeship

After their first semester, exceptional students with outstanding academic records and pertinent abilities have the possibility to serve as apprentices on industrial projects. Projects involving businesses, research, and data sharing are a part of these apprenticeships.

Student Achievements

GIT and Github Workshop

The session covered the usage of GIT and Github for software development project management, collaboration, and version control. Open to all students, faculty, and staff who were interested in learning about version control and collaboration in software development, industry experts shared their experiences and knowledge on the newest tools, frameworks, and best practises for using GIT and Github in modern software development.

Women Entrepreneurs

INTRODUCTION
Trade Development Authority of Pakistan (TDAP), Ministry of Commerce is organizing an exhibition titled "Her Hustle" on 04 & 05 March 2023 at Pak-China Friendship Center, Islamabad to encourage women entrepreneurs hailing from North Pakistan including Chitral, Swat, Dir, Gilgit, Skardu, Hunza, Diamir, Gilgit Baltistan (GB), Azad Jammu and Kashmir (AJK), Islamabad and Rawalpindi.

Why HER HUSTLE?
To provide a platform to empower women entrepreneurs of North Pakistan.

PRODUCTS IN FOCUS

- Textiles
- Bags & Jewelry
- Carpets & Rugs
- Food Products
- Handicrafts
- Fashion Accessories
- Cosmetics & Skin care products
- Furniture & Decorative Items

SIDELINE ACTIVITIES

- Live Cultural Performances
- Seminars/Workshops
- Awareness Session on Intellectual Property Rights
- National Trade Portal
- Kids Arena
- Food court (traditional cuisine from Gilgit, Baltistan, Chitral, Swat etc.)

Do visit to encourage and appreciate women entrepreneurs of North Pakistan showcasing quality products.

THE CHAIRSPONSOR: UNITED IS MANSUR

پنرندخواتین - خوشحال پاکستان

بیاختیار خواتین روشن مستقبل

Empowering Women Entrepreneurs at Pak- China Centre Pakistan

The event gave women entrepreneurs a venue for business networking, product display, modern technique learning, marketing method knowledge, product development for a worldwide market, and export promotion. At the national level, women from all disciplines received exposure, which improved their comprehension of marketing tools. Along with its primary goal of enhancing gender diversity in our enterprises, capacity building training sessions were also planned as ancillary activities. In this regard, Air University encouraged their students, staff and faculty to become participant of such a fruitful session

Women in Computing from Air University

This is to circulate that the Women in Computing from Air University (AUWiC) is in Collaboration with the Women in Computing from the Fast University (FUWiC) and it's Parwaz-e-Takhayyul that's connecting the two.

The ideathon Parwaz-e-Takhayyul is an ideas fest for the women. It's mainly initiated by the Women in Tech (WiT) Department of GDSC FAST Islamabad. It aims at providing a unique platform to the young women where they can translate their ideas into effective technical solutions. It would ultimately result in solutions to the real world problems.

Product Design and Development for Amazon

A product development training session for Amazon was conducted by Air University. This programme is an example of the university's commitment to advancing gender equality among students, teachers, and employees. The training gives people the skills they need to succeed in the field by promoting an inclusive training approach, boosting skills, providing gender-inclusive models, encouraging equitable participation, and providing networking and mentorship possibilities. With the help of these programmes, our institution hopes to develop a workforce that is more diverse and inclusive and allows everyone the opportunity to succeed.

Air University Champion Trophy

The Air University Champion Trophy encourages both male and female students to take an active part in a variety of disciplines, thereby breaking down gender barriers. The competition establishes a fair playing field where students may demonstrate their abilities and passion regardless of their gender by offering equal opportunities.



6 CLEAN WATER AND SANITATION



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

8

Publications

1

Research Projects

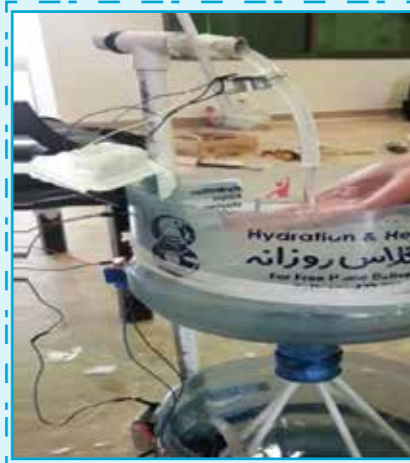
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FYP

Social Contribution & Participation

Work Shop on Building Water Saving

Air University Islamabad, a workshop on Building Water Saving Devices was held. The Robotics & Automation Society at Air University created the first Smart Tap prototype. The prototype was well received, and the university administration requested that it be used in the ablution area and washrooms. Scrap materials were used to construct the body and all of the building components. Discarded dispenser bottles and damaged PVC pipes were used for the main body. This system is suited for use in underserved communities.



Research Analysis

This research analysis provides information about the current state of sanitary facilities and access to clean water at the university level. Even though there is generally access to clean water and adequate sanitary facilities, there is always space for development. To provide improved water and sanitation facilities on campus, it is crucial to raise awareness, encourage responsible water use, and solve infrastructure and maintenance issues. Universities have built a healthier and more sustainable environment for their staff, faculty, and students by giving these areas priority.

Performance Assessment



Water Efficient Appliances Usage

Recognising the need of water conservation, Air University has taken aggressive steps to solve water waste issues. Monitoring water use and ensuring proper use of hand-washing faucets has been given to devoted restroom attendants. A specialised department is responsible for the upkeep and repair of the equipment used for the water supply and responds quickly to any problems. Additionally, the university is dedicated to implementing cutting-edge water-saving technology to better save water supplies. Currently, automatic faucets, flushes and dual flush systems are present in 75% of the university's lavatory facilities, which helps to cut water usage. Furthermore, a lot of the restrooms and toilets on the campus have had sanitary technology that encourages water efficiency installed.

Consumption of treated water

Safe drinking water is valued at Air University Islamabad as a fundamental human right. In order to comply with Pakistan's National Drinking Water Policy and accommodate its expanding student body, faculty, and staff, the institution built a filtration facility. To guarantee the purity and quality of drinking water, regular monitoring and sampling are carried out. Proper water filtration is overseen by a designated focal point in an effort to cut waste and ensure that everyone has access to safe drinking water, especially marginalised groups. Every six months, the institution also checks the water quality and consistently gets good findings. Through these initiatives, Air University provides its community with filtered water at a rate of about 7,400 litres per hour.

Water Recycling Program

Air University, E-9 Islamabad is located at the heart of the city, the water sewerage and the exit water are connected with the main lines of the Islamabad sewerage system. However, a portion of Air University's water is reused to water green fields and maintain the greenery of the complex. At the new South Campus, the university is already prepared a comprehensive recycled program to maintain a huge green belt and the green areas of the Campus. The university has also prepared procedures to conserve water and made



channels to use rainwater for the maintenance of the grass and green fields. Waste water which we collect from sewerage line that is of two types, one is containing solid particles & other type of water used for plantation after small process of treatment, which we have taken through clearance etc. Solid water containing water shift through septic tank & briefly discuss in item wise

University's Water Security

Air University has outlined all the requirements in the water policy that must be met, for instance., making sure water is used effectively every day by utilizing the economy mode, filling the dishwasher before using it, shutting off the faucets fully, and, when available and suitable, using the half-flush option on the toilet, etc.

Water Leakage Issue

The resident engineer at Air University keeps track of water leaks to find trouble spots and cut down on water waste. Routinely inspect plumbing systems to find leaks and quickly correct them, Pressure-reducing valves were installed in order to maintain ideal water pressure and avoid pipe bursts. To reduce water usage and potential leaks, water-saving faucets, showerheads, and toilets were installed. Sophisticated sensors and leak detection systems were used to find leaks quickly and stop major damage.



Student Learning & Academic Excellence

Students Recycling Contest

Students took part in the university's effort to recycle its plastic bags. We think that pouring plastic bottles and bags into the university's little canals can congest the sewage system and result in water that is not properly sanitized.



7 AFFORDABLE AND CLEAN ENERGY



ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

6

Publications

9

Research Projects

24

FYP

Social Contribution & Participation

Automated Smart Home Systems

Home automation is the automatic control and monitoring of household appliances and house features like doors, windows, fans, and so on. This system improves the standard of living at home, saves energy and money and it also provides support to elderly and disabled people in the home.

Energy Saving System

LED Lighting Systems: Traditional lighting fixtures have been replaced with energy-efficient LED lighting systems throughout the university buildings. LED lights consume significantly less energy and have a longer lifespan compared to conventional lighting options. The use of LED lighting reduces electricity consumption while providing ample illumination for various spaces.

Power Management Devices

Power management devices, such as smart power strips and timers, are used to minimize standby power consumption. These devices detect when electronics are not in use and automatically cut off power to prevent unnecessary energy drain. By controlling power to idle devices such as computers, printers, and charging stations, power management devices reduce phantom power usage and promote energy efficiency.

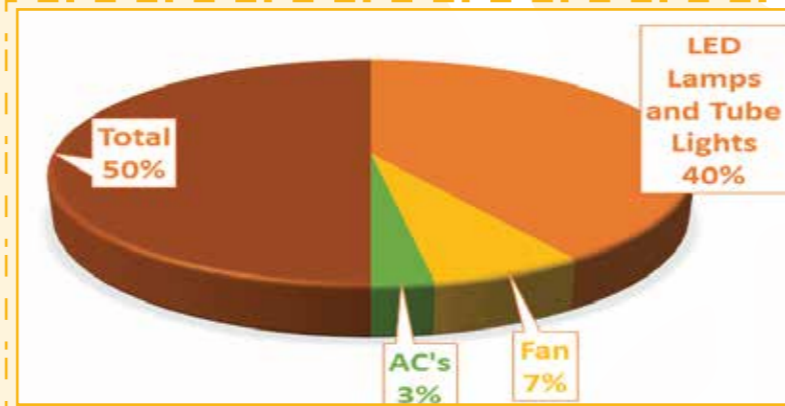
Advancements in Solar-Powered LED Smart Lighting Systems

Air university has Installed a Renewable energy resource whose capacity is **250Kva (235Kw)**.

It will produce an approx. **290, 000 Kw** Units per year as well as our **200Kw** load will be transferred to this system. A Net Metering system will transfer energy to WAPDA.

When the university is closed and energy resources are not consumable the produce will automatically shift to WAPDA it is also beneficial for our country.

Air University has executed this project, as a pilot if we gain success and achieve maximum efficiency then will install more renewable systems.



Air University for Smart and Sustainable Living Environment

Air University Multan Campus have smart and sustainable working environment having IT room, Server Room, Power Control Room, Automation Facility, Labs and Smart Class room as well. Recently, we working on the installation of Solar Panel to convert campus building to sustainable energy consumption.



Air University Car Pool World

We motivate the Students, faculty members, and staff to use hybrid and electric Vehicles. Rideshare is designed to encourage commuters to adopt healthy and sustainable transportation options. The service, which has won recognition from UN Environment as part of a push to promote low-carbon lifestyles, also helps cut congestion and pollution.

Work Shop on Building energy saving systems

Air University, an automation workshop was held for students to design an indigenous system to save electricity in household appliances. A pedestal

fan was operated during the operation. It only turns on when it detects human presence nearby. The Robotics & Automation Society of Air University organized this activity.

Workshops for Introducing Energy-related Technologies to School Students

Building energy simulations were also carried out using TRNSYS© software for validating and comparing the actual energy consumed and optimal energy consumption resulting from building energy simulation of the existing and re-designed building.

Research Analysis

Smart and Sustainable Living Environment

The building has been completely renovated by the Air University team to promote sustainable and intelligent living. The Sustainable and intelligent construction has several advantages. To start with, they help to lessen greenhouse gas emissions and the effects of climate change. They assist in the conservation of natural resources like water and electricity, which reduces costs for both building owners and tenants. The health and productivity of inhabitants are positively impacted by improved thermal comfort, illumination, and indoor air quality. In addition, Air University has taken the initiative to create a platform for integrating future technologies like artificial intelligence, machine learning, and Internet of Things (IoT), enabling significant improvements in building management and optimisation.

Performance Assessment

Elements of Green Building

All buildings are well ventilated and built to support energy saving with coolant walls (thick walls). The solar system is being installed to decrease reliance on electricity. AU Kamra sub-campus has installed a 250 KW (extendable to 500 KW) Solar set-up. To promote the cause of Green Campus, it would be dovetailed with Sewage Treatment, Solar Agriculture, Rain Water Harvesting, etc.

University Investments

The greenhouse emission policy at Air University was created to combat air pollution and harmful chemicals that are harmful to human health as well as to lessen the severity of climate change.

Austerity Measures

It is the major duty of each department attendant to turn off all the appliances when faculty, staff, and students leave their offices and classrooms. It will aid in bringing down the exorbitant price of electricity.



Student Learning & Academic Excellence

Sustainable Course

In its undergraduate and graduate curricula, Air University offers more than 35 sustainable courses from introduction to environments to resource management to educate students about renewable energy sources and their significant impact on climate change.

AU E-Gaming Society and AU robotics and Automation Society

Our university's two clubs AU E-Gaming Society and AU robotics and Automation Society have contributed significantly to numerous projects and raised awareness among students, staff, and faculty about the need to establish a sustainable environment on and off campus for better use of energy resources.

E-Mustakbil by Connected Pakistan

In partnership with the Young Peace and Development Corps, Connected Pakistan hosted a launch event for E-Mustakbil on March 10, 2023, a Friday, at the main auditorium of Air University in Islamabad. In regard to this goal, the YPDC platform served as a torchbearer for Pakistan's peace and prosperity. The launch's concept was integrated as the first occasion to present a variety of workshops and lectures that gave students the digital skills they needed to succeed.

This event taught people the value of digital skills and entrepreneurship. Additionally, the event was successful in spreading information about the launch of E-Mustakbil, which strives to promote digital growth and how entrepreneurship is expanding.

8 DECENT WORK AND ECONOMIC GROWTH



PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

99

Publications

33

Research Projects

39

FYP

Social Contribution & Participation

Faculty Professional Development

Air University includes two satellite campuses, four component institutions, and five affiliated colleges. It believes in equal opportunity for all of its employees, including faculty and staff, and discourages workplace discrimination. Every year, Air University's ongoing professional development offers more than 120 training sessions in a variety of national and international courses to help staff and faculty improve their professional abilities and advance their careers for a brighter future

TechHighEd Pakistan Smart Higher Education: Trainings, Transformations, Traps

The Conference revolved around the themes of Technologies in Teaching, Assessment and Learning, Digital Classroom and Social Integration, Simulations in Education, and Human Resources in Education Technology



Research Analysis

The relationship between training and workers' job satisfaction has been thoroughly examined by our researchers, with a focus on how it relates to pay, job duties, and interpersonal relationships. The results show that it is critical to offer employees training options that are customized to their skill level and job requirements. The perception of future growth and development among employees is favorably impacted by this strategy, which raises job satisfaction. The report emphasizes how important it is to provide training opportunities for employee's at all organizational levels. Employers may develop a sense of empowerment and optimism among their staff members by providing them with the required training and information. This has a subsequent direct and advantageous effect on their general job happiness.

Performance Assessment

AU Workload Policy

Air University has a policy for mapping faculty workload to manage the human resource in each department and follow the rules of regulatory/ac-creditation bodies.

AU Honorarium Policy

The development of a top-notch academic and administration culture is a crucial part of AU's purpose. We reward our personnel with honorarium certificates to inspire them, depending on their successful performance.

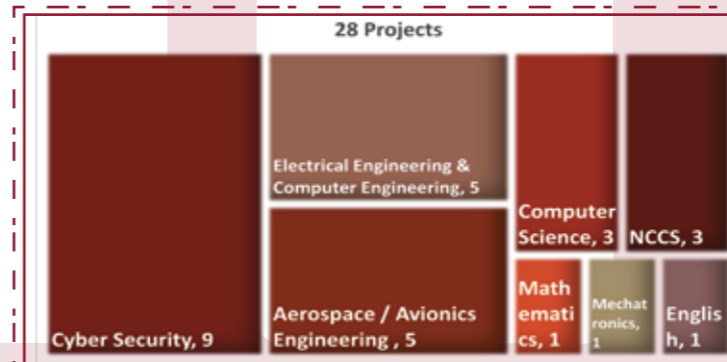
AU Best Teacher Award

The Best Teacher Award have been given to Dr. Noman Naseer from the Mechatronics Department, Dr Asghari Masood from physics and and Dr Ahmed Jalal from computer science department in recognition of their outstanding contribution to teaching and excellence.

Faculty Course Evaluation System

The faculty qualification for teaching a course is ensured by the departmental academic committee. At the end of every semester, students are asked to evaluate the performance of faculty for each course through a student evaluation questionnaire form.

AU Research Projects



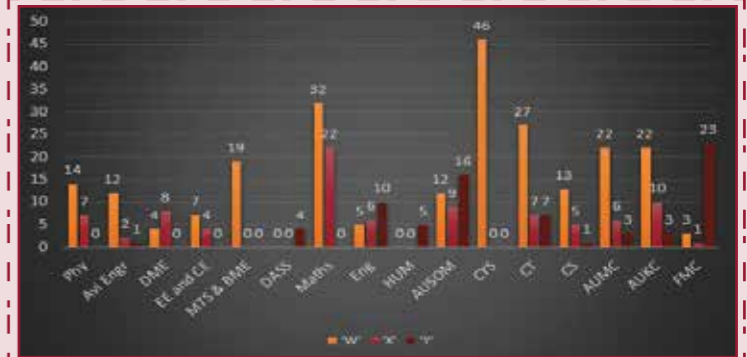
Flexible education enhancement pathways

The management of Air University places a high premium on helping its faculty members advance their qualifications at the national or worldwide level

AU Corporate Social Responsibility

Air University School of Management's Corporate Social Responsibility (CSR) Policy sets out the guiding principles which facilitate the organization in fulfilling its core mission. Policy determines the ways in which AUSOM ensures that its functions and activities are carried out in ethical and sustainable ways for the public benefit.

AU Faculty Research Publication



AU Faculty and Staff Promotion Policy

The minimum standards for faculty promotion used by Higher Education Commission of Pakistan serve as the foundation for the Air University Promotion Policy. However, the promotion of staff members is based on their experience, credentials, and contributions to the welfare and advancement of the university.

Student Learning & Academic Excellence

Our Academic Programs for Career growth

AU Youth Development

The Executive Recruitment Drive has been created by Shaor Society at Air University for youth Insight with three main targets : leadership, voluntarism, and social change. It primarily operates in twin cities. Youth Insight offers a platform for a variety of activities for young people.



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

97

Publications

36

Research Projects

158

FYP

Social Contribution & Participation

Hackathon

The Air University Hackathon fosters creativity, teamwork, and entrepreneurial thinking among its students. The university gives learners the tools they need to use technology to address real-world problems by developing a platform that encourages creativity, problem-solving, and teamwork.

Sky Gazing

This is an annual event conducted by the Air Astronomical Society where it is an unique opportunity for all the astronomy enthusiasts to witness the wonders of the night sky. Students of Air University aligned together to take a good look at the planets and stars.

Digital Technology in Healthcare

The institution is developing a dynamic ecosystem for digital healthcare innovation by integrating technology into healthcare education, encouraging research and development, encouraging industrial collaborations, and supporting entrepreneurship.

Human Factors in Cyber Security

Air University emphasis on security awareness and education, the implementation of user-centric design principles, the incorporation of behavioural biometrics, the reduction of insider threats, and the

prevention of social engineering attacks have all contributed significantly to the improvement of cybersecurity.



AU Business Incubator Center

Air University Business Incubation Center (AUBIC) under AUORIC department is offer a venue for the pioneering ideas of our students, faculty and Alumni but also facilitate the incubation of new enterprises with innovative technologies by providing them with physical, technical and networking support and services.

Research Funding Opportunities

In order to facilitate our students and faculty in hunting for the best research grant opportunities particular to their expertise, here is a comprehensive list categorized separately under the heads of National and International opportunities for your convenience.

Sponsored/ Funded Projects.

All the projects undertaken from 2011 onwards were mostly sponsored by the funding agencies such as HEC-TDF, HEC-NRPU, HEC-SRGP, PAF, PAC Kamra, NESCOM, IGNITE, International (UNICEF), US Embassy, USDA, NSF, US Science Foundation, UK,CANADA Embassies and more.

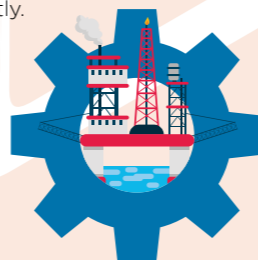
Future of ChatGPT in different industry

The senior panelists had a meeting with representatives from other organizations to discuss the specifics of the positive and constructive aspects of chatgpt and how they will affect the whole business. Because of the transition from manual to AI systems, which has captured our university's attention greatly.

Research Analysis

Innovative Behaviors

Job creation and innovation are more closely related to economic expansion



and knowledge sharing between coworkers or within organisations fosters social collaborations, a robust ecosystem for new ideas, and serves as a bridge for interdisciplinary research and commercialization.

AU Digital World

Air University Islamabad's department of computing and artificial intelligence has deeply and critically examined the method for protecting the misuse of the data through the medium of using digital technology which has become a serious issue globally.

AU Smart Devices Security

We focused on security analysis of Android OS, customization of Android OS with security enhancements, addressing privacy concerns of users, that includes securing files, folders, pictures, gallery and sending of usage statistics to Google and providing strong user control of device sensors i.e. GPS, WiFi, Mobile Networks, Camera, Mic etc.

AU Network Cyber Defence

The research would target analysis of network log information using advanced machine learning techniques, effect analysis of network security policies on a large network, detection and prevention of advanced cyberattacks.

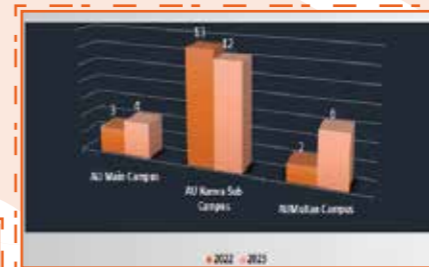
Performance Assessment



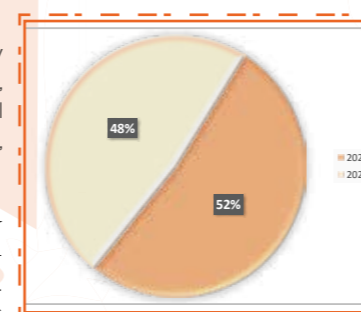
Job Career

The placement and Alumni Affairs office of Air University is responsible for seeking internship and employment opportunities for its students and alumni. It also serves as a bridge between the Alumni and the University.

AU University Spin-Offs



AU Research Income



AU Industrial linkages

AU established the International Cooperation Office and Office of Research, Innovation, and Commercialization. In order to arrange internships, trainings and workshops, field trips to industry and research institutes, establish industrial links.



Protection of Intellectual Property Rights

We place a high priority on the protection of intellectual property rights, urging scientists and inventors to submit patent applications and copyright requests for their creations.

Student Learning & Academic Excellence

AU Student Exchange Program

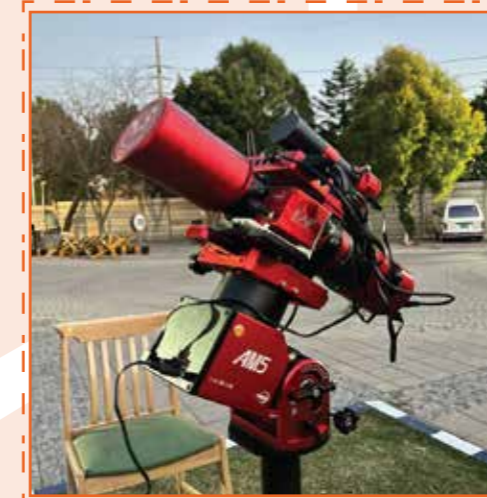
AU team comprising of 11 students from various departments of the our university participated in Erasmus+ student Exchange program at Anadolu University Eskisehir, Turkey in spring semester.

Industrial Tours

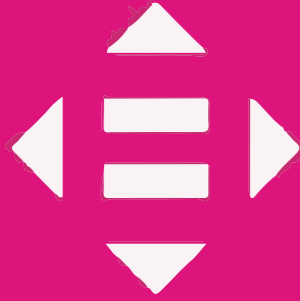
Biomedical Department of Air University makes sure to provide the students an exposure to current work practices as opposed to theoretical knowledge being taught at their classrooms level, by conducting various industrial visits.

WoW Health Pakistan

This visit provided a chance to deepen relationships between business and academics and to promote cooperation in the area of healthcare innovation.



10 REDUCED INEQUALITIES



REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

3

Publications

9

Research Projects

7

FYP

Social Contribution & Participation

AU Believes in Diversity

Diversity is embraced by the AU Cultural Society Club as a cornerstone of its operations. The group encourages students to respect and enjoy the diversity of diverse cultures and origins through activities and initiatives that highlight various cultural practices. The group fosters understanding, tolerance, and acceptance among students by providing an inviting and inclusive environment, fostering a lively and diverse community.

Motivating Future Generations

The AU Women in Computing Club is essential in advancing inclusion, empowering women in technology, and fostering cooperation. The group enables women to succeed in the field of computing and artificial intelligence by offering a platform for professional development, networking, advocacy, and community building. In addition to furthering their own professions, club members are encouraging younger generations of women to break down barriers and make substantial contributions to the field of technology

AU Debating Club

Our AU Debating Society's objectives are to improve students' critical thinking abilities, articulation, research skills, conflict resolution, tolerance, greater empathy, emotional control, and a broader

perspective of the world. It also teaches faculty, staff, and students how to structure and organise their thoughts while also fostering their analytical and research abilities.

Research Analysis

Faculty, Staff, and Student Empowerment

The teachers, staff, and students at Air University are actively encouraged to help lessen employment inequality. The institution fosters an inclusive and progressive atmosphere through professional development programmes, knowledge-sharing sessions, and career development possibilities. Faculty, staff, and students are better prepared to confront biases, resolve disparities, and contribute to an atmosphere that is supportive and equitable by developing their research skills, encouraging candid communication, and creating collaborative work environments.

Training and Coaching

To give faculty, staff, and students the information and abilities to effectively prevent and handle workplace bullying, Air University regularly conducts training and coaching programmes. These initiatives emphasise cultivating empathy and understanding, encouraging polite dialogue and dispute resolution, and raising awareness of bullying behaviours. Participants are empowered to take action, report instances, and support an inclusive and respectful culture by being given useful tools and techniques.

Performance Assessment



Access to Education

Our university has put in place a number of policies to guarantee fair access to education. To assist students from underprivileged families, scholarships, financial aid programmes, and merit-based admissions rules have been implemented. Collaborations with community groups and educational institutions seek to find talented people who might experience socioeconomic challenges and give them options for higher education.

Non Discrimination Policy

Air University follows open door policy, rights of employees and students reporting discrimination from educational or employment disadvantages are protected through formation of committee in case of any such instance.

Anti-Harassment Policy

Seeks to handle and prevent hostile circumstances that undermine employees' dignity

A support for Differently abled students

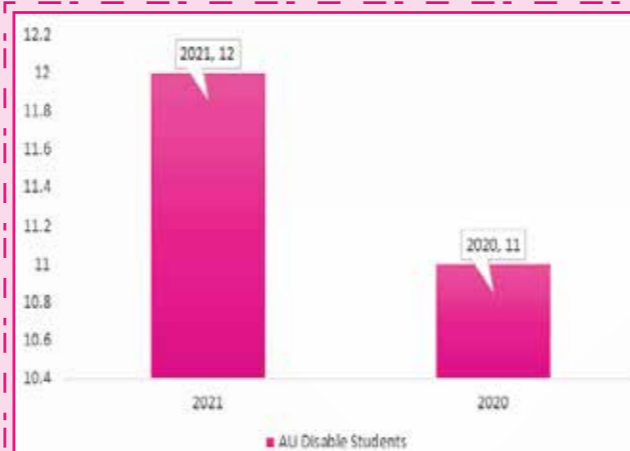
Air University is committed to a policy of equal opportunities for persons with disabilities to pursue their higher studies in a conducive environment and to ensure accessibility for the disabled to higher education with provision of disabled friendly campuses and classrooms

AU need based Scholarship

Through this scheme AU funds in each semester to needy students who face the financial constraints ranging from 25 to 50% of tuition fee discount.

Student Support Services

Our university has built extensive student support services because it understands the value of comprehensive help. These services include counselling, mentoring programmes,



career counselling, and academic advice. Students with socioeconomic difficulties receive special attention, allowing them to access resources, acquire necessary skills, and reach their full academic potential.

Student Learning & Academic Excellence

AU Sha'oor Society

It works for social welfare and character building of youth and are dedicated to bring academic, social and moral awareness in the society. Explicitly, Sha'oor is nonpolitical, non biased student organization, works on numerous civic engagement projects and community development programs through its platform for the wellbeing of the community.

AU Devfest

All students, teachers, and staff from various academic backgrounds are invited to participate in the Devfest session that Air University has organised to learn more about the value of community, innovation, and collaboration in the world of technology. The event fosters information sharing, networking, and practical experiences that empower people and promote technology developments by bringing together developers, designers, and technologists. DevFest is essential in maintaining a diverse and welcoming developer community, encouraging creativity, and providing access to rewarding job possibilities

All You Need Is You To Be An Achiever" – Air Talks

This event was conducted by the AU Sha'oor Society under the supervision of the student affairs department. It was a 50 minutes session in which the speaker shared different experiences with students of AU, followed by a Q/A session with the audience to provide them with productive ideas regarding their future success. The overall idea of the event was to motivate students that failures and hardships are part of life and should be considered as steps towards success. The event was fully packed with productive discussions to uplift the moral of everyone. It was attended by large numbers of students who were willing to learn something to bring a change in their lives, followed by faculty and management.



11 SUSTAINABLE CITIES AND COMMUNITIES



MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

10

Publications

34

Research Projects

27

FYP

Social Contribution & Participation

Kashmir Solidarity Day

The event was a Solidarity gathering in respect of Kashmir was organized by AU Music Society. It was planned with the conception to draw attention to the plight of our Kashmiri brothers and prayer for those hit by the devastating earthquake in Turkiye Syria.

Love and Life

Air University Islamic Society's arranged a motivational talk followed by Q&A session organized on the topic "Love and Life" by Tuaha ibn e Jalil.



Research Analysis

The cost-effective building material

The Air University Engineering Department is aware of the rising urbanisation and the vital function that buildings serve as the main structural components. Sustainable building design, construction, maintenance, repair, and demolition are becoming more and more important in accordance with the concepts of sustainable development and the protection of global ecosystems.

AU Building Life Cycle Assessment

Life Cycle Assessment: For efficient energy use, building materials' life cycle assessments (LCAs) must be taken into account. The life cycle assessment (LCA) method assesses the environmental effects of materials at every stage of their life, from production and extraction to use and disposal. Buildings can be made to use less energy overall by choosing materials with longer lifespans and less of an impact on the environment. With a holistic approach, all phases of the building's life cycle are covered in terms of energy considerations.

Performance Assessment

AU Travel and Explore

Air University provides their students and staff with local Shuttle/bus services for travelling in twin cities i.e., Islamabad and Rawalpindi. Air University has its own shuttle service, which includes high-rise buses and coasters.

Our Pedestrian Paths

Air University's infrastructure, car parking areas, motorcycle and bicycle parking, and pedestrian footpaths are all provided in accordance with proper design and standards, and students and staff are encouraged to use private carpool services to avoid additional traffic and burden on campuses.

Au Pedestrain Path Policy

Pedestrian rights are becoming a necessity for being able to travel freely due to the approaching trends of traffic on roadsides. Additionally,

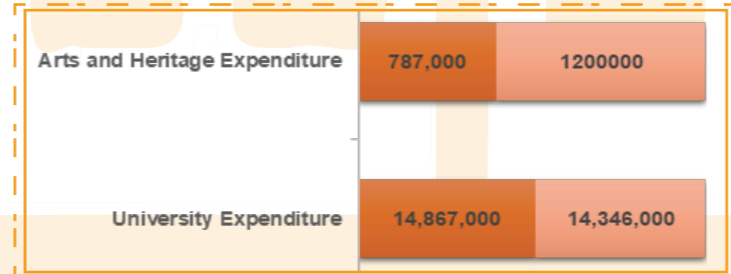
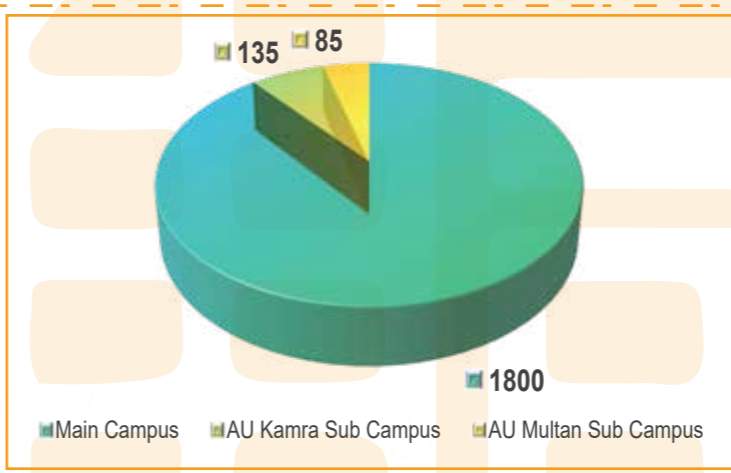
people who are physically challenged or disabled deserve special consideration and care when transporting wheelchairs from parking lots to departments or elsewhere on the university grounds.

Air University Vehicle Management

The administration department is very cautious about how the automobiles are parked and handled so that heavy traffic is avoided at the main entrance gate and the flow of traffic is smooth and accessible to prevent any accidents

Air University Thespian Society

AU All cultural events at the university are coordinated by the thespian society. Each year, a separate fund is set aside to increase faculty, staff, and student interest in this field and their understanding of its significance in the city's interior.



Student Learning & Academic Excellence

AU Sustainability Courses

We have added many courses for our students in the program undergraduate and postgraduate to learn about the infrastructure of the cities as per the environment and community and overcome the challenges in the green infrastructure

AU Cultural Heritage

Honoring the diversity of our multicultural land, Our Cultural Society whilst collaborated with the Air University music society and conducted an event of Rang-e-saqafat to recognize your culture, bringing with us cultural dances embodying the true meaning of what it stands to be a Pathan, a Sindhi, a Balochi, a Punjabi or from Hunza.

AU Tourism and Management

Students at Air University are encouraged to use tourism and management to highlight Pakistan's natural beauty. It has launched a program called BS Tourism and Management with the goal of attracting a lot of students and enhancing its standing on both national and international platforms.

Our faculty is every keen to promote this concept of tourism and management at every forum



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

8

Publications

25

Research Projects

27

FYP

Social Contribution & Participation

Love Cleanliness Program

The Love Cleanliness program was introduced at the class level to refresh the ideology of cleanliness and to make the environment around the university squeaky clean and hygienic

Environmental Solutions Program

The aim of this program was to develop environment-friendly projects, where no hazardous material was suggested to be used. Every product contained at least 85% of useless things to produce a recycled product. The idea was to bring something innovative with no copyrights.

Re-craft Competition Program (Recycle, Rebuild, Reuse)

The students were suggested to use home materials for the crafts competition. The target was to make the craft of recyclable things or depict some idea regarding recycling

Sewage Disposal

Air University has established the proper system for sewage disposal when water tank filled with sludge & other particles; we have shift this to septic tank through branch & main sewerage line according to public health engineering. In our septic tank, there are three parts. The top layer is oils and grease and floats above all the waste. This commonly referred to as "scum". The middle layer

contains wastewater along with waste particles. The third and bottom layer consists of particles that are heavier than water and form a layer of sludge. In future, we have proper plan of treatment plant in our phase III, till that time this is sufficient for this campus.

Research Analysis

Drivers of Food waste Reduction Behavior Sustainability of food waste reduction

The AUSOM department at the Air University has made significant efforts to create efficient waste management plans, especially in the area of reducing and controlling food waste. The department has identified important drivers that affect people's behavior towards managing and reducing food waste through thorough study and analysis. The expectation of guilt is a key motivator that has been identified by the studies that have been done. People are more likely to engage in actions targeted at reusing food and minimizing food waste if they expect to feel bad about doing so. This research emphasizes the value of raising people's sense of responsibility and understanding of the effects of their food waste.

The knowledge gathered from these investigations forms the basis for creating successful awareness campaigns, waste management programs, and educational activities. The AUSOM department at Air University hopes to support the overarching objective of encouraging sustainable practices and responsible consumption by studying the factors that influence behavior to reduce food waste. A culture of waste reduction and appropriate resource management is being promoted within the university community and outside by the department through ongoing research and collaboration as it continues to develop its tactics and approaches to combat food waste.

Performance Assessment

Anti-littering Program

The program intended to maintain the beauty of the campus. The improper disposal of any form of litter was strictly prohibited on campus. The posters for the disposal of litter are any waste material, garbage, or rubbish, including but not limited to food, food wrappers, paper, cans, bottles, or discarded debris placed all over the campus.

Decor by recycling waste

The sustainable solutions efforts were carried out by planning and executing waste products. The plastic bottles and other recyclable waste were reused to make dustbins, robots, and other products to décor the campus.

Green Office

The Air University Green Office task for waste consumption aimed to reduce waste generation and promote sustainable practices within office settings. The task involved implementing various strategies to minimize waste and encourage responsible consumption. Some of the key initiatives undertaken as part of this task are outlined below:

Waste Reduction Policies: The Green Office task involved implementing policies to reduce waste generation. These policies included measures such as paperless operations, encouraging digital communication and documentation, and minimizing the use of disposable items.

Composting Initiatives: To further reduce organic waste, composting initiatives were introduced. Composting bins were set up to collect food scraps and other organic materials, which were then transformed into nutrient-rich compost for use in gardening or landscaping projects.

Reusable and Eco-Friendly Products: The task encouraged the use of reusable and eco-friendly products within the office. This included promoting the use of reusable water bottles, coffee mugs, and shopping bags. Additionally, the procurement of eco-friendly office supplies, such as recycled paper and non-toxic cleaning products, was prioritized.

Awareness and Training: The Green Office task involved conducting awareness campaigns and training sessions to educate employees about waste reduction, recycling practices, and the benefits of sustainable consumption. These initiatives aimed to create a culture of environmental responsibility and encourage individuals to actively participate in waste reduction efforts



Monitoring and Evaluation: Regular monitoring and evaluation of waste consumption and recycling rates were conducted to assess the effectiveness of the Green Office task. Data on waste generation and recycling rates were collected to identify areas for improvement and track progress over time.

Waste Management Policy

Air University is devoted to minimizing its environmental impact through an efficient waste management system. The University urges all employees, students, contractors, and visitors to abide by the policy and associated processes on waste management in order to make the institution clean and green and to fulfill our legal duties and recycling goals.

Inorganic Waste Treatment

Recycling involves the transformation of waste materials into new products such as paper, towels, and water bottles. By implementing effective recycling measures, the university aims to minimize the amount of waste sent to landfills and maximize the reuse of recyclable materials, contributing to a more sustainable approach to waste management.

Student Learning & Academic Excellence

Study programs

We have added the courses Introduction to Environmental Sciences, Social Psychology, and Environmental Psychology to each curriculum of undergraduate and graduate studies to educate students about the significance of understanding global warming and the misuse of energy and food resources, which has an ultimately negative impact on society and the planet as a whole. Students who complete these study programmes will have the knowledge and abilities necessary to comprehend the intricacies of responsible consumption and create novel approaches to sustainable practises. Students are prepared to be change agents and contribute to a more responsible and sustainable future by incorporating these ideas into their education

13 CLIMATE ACTION



TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

4

Publications

10

Research Projects

6

FYPs

Social Contribution & Participation

Air University has undertaken various projects to address the problems caused by global warming and has significantly contributed the nation's climate. Development of Smart & Assistive Technologies for Energy Conservation in Buildings.

Solar Powered Intelligent LED Street Light with Sun Tracker. Design and Development of an IOT based Smart Meter Lab Model



Promoting Ecological Systems through technological advancements

Air University takes pride in being the organizer of Pakistan's largest technical Olympiad, Air Tech. The event is an amalgamation of numerous technical events highlighting a theme which always is a major problem being faced globally. AirTech'23 addressed the issue of Climate Change, with the underlying theme "Promoting Ecological Systems through technological advancements"

Research Analysis

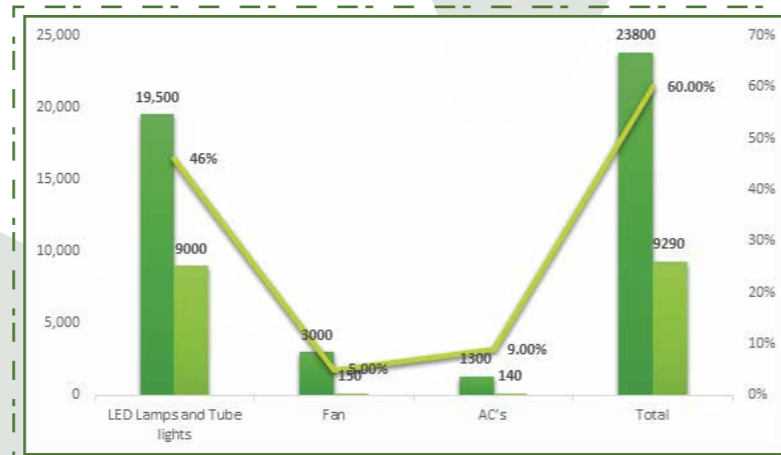
Sustainable Land Management

In order to significantly reduce greenhouse gas emissions, Air University has made important contributions to land management practises. We have done research on sustainable land management practises include urban planning, sustainable agriculture, and reforestation. We were able to determine the optimum methods and tactics for carbon sequestration, land restoration, and sustainable land use planning through these investigations.

Performance Assessment

Efficient Usage of Appliances and its storage

Air University is very particular about how much electricity is used, thus it has installed several energy-saving gadgets to reduce its excessive use of it without raising the university's costs.



Limiting carbon emissions

The university has committed to supporting Air University's effort to achieve zero carbon emissions by 2025 within the timeframe required by national policy. It will be reduced from 4938 metric tons to the least as per the standard Carbon emission of our country.

Policy Low Carbon Emission

Speedy and unexpected climate changes have become a serious concern globally. Pollution, noise pollution, and smog adversely affect Pakistan's population. The education sector is adequately affected due to its location in the metropolitan cities of Pakistan. There is a dire need to formulate policies to mitigate climate change (reducing greenhouse gas emissions and removing greenhouse gases from the atmosphere). So that the climate does not change as much or as quickly as it is being deteriorated. To avoid the worst effects of warmer temperatures, extreme weather, and high carbon emission vehicles, Air University is adequately mindful of such pollution and takes appropriate measures to minimize the effects within the campus area.

Number of Innovative programs in energy and climate change

Air University has undertaken various projects to address the problems caused by global warming and has significantly contributed the nation's climate. Development of Smart & Assistive. Technologies for Energy Conservation in Buildings. Solar Powered Intelligent LED Street Light with Sun Tracker. Design and Development of an IOT based Smart Meter Lab Model

Our Green Building Structure and Renewable Energy Resources

All buildings are well ventilated and built to support energy saving with coolant walls (thick walls). The Solar system is being installed to decrease reliance on electricity. Sky light roof covers the open area instead of concrete ceiling to ventilate and light the blocks.

This theme was created to support the causes and enhance awareness of individuals for clean and green Pakistan. All offices were provided an indoor plant and buildings corridors were also decorated with indoor plants to create better working environment and increase awareness of Air University employees

Making Air University's Environment Lively and Inviting

By lining every pedestrian pathway with a profusion of trees, Air University has made proactive measures to foster and inclusive atmosphere for its staff, students, and professors. This creative project seeks to promote a positive and inclusive environment across the university campus.

Green Space

Air University Has Built gardens, and green places on the campus. These spaces for leisure, biodiversity preservation, and carbon sequestration in addition to improving the university's aesthetic appeal.

Paperless Environment

The paperless environment adopted by Air University supports staff and student growth in digital literacy and proficiency. By using digital tools and platforms, individuals



become more adept at navigating and utilising technology, which improves their employability in a world that is becoming more and more digital. We have included instruction in digital literacy in their curricula, giving students the skills they need to succeed in the digital age.

Student Learning & Academic Excellence

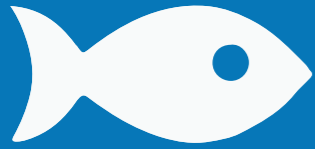
The Clean Campus

Shoor the Society took an initiative and conducted an On-Campus Safai Walk, an annual event for the Clean and Green Campaign and now an initiative of the Green Youth Movement under prime Ministers youth Movement. The idea behind the initiative was to enhance the concept of cleanliness and to encourage students, staff and management to play their part and apply the need and use of proper sanitation and hygiene practices among university

Faculty along with students of AU took part in this activity showing their positive behavior towards the conservation of campus, creating an environment for everyone to learn about cleanliness and creating awareness about its importance for future.



14 LIFE BELOW WATER



CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

9

Publications

1

Research Projects

90

FYPs

Social Contribution & Participation

The engineering student from our university worked on the project and really extracted power from the shallow streams using a hydrodynamic design and optimization of cycloidal vertical axis water turbine



Analysis of Vertical Axis Water Turbine for River Application

A student has created and constructed a vertical axis water turbine application for rivers. The aim is to design and fabricate a vertical axis wind turbine with automated blade angle correction (alignment of the blade to maximize lift by adjustment of angle of attack) depending on fluid speed and angle of incidence.



Solar-powered Automatic Drip Irrigation System

The variation of the spatial and temporal distribution of available water for irrigation makes significant demand on water conservation techniques. Irrigation System provides a sustainable solution to enhance water use efficiency in the agricultural fields using renewable energy. This system allows farmers to apply the right amount of water at the right time.



Research Analysis

In Southeast Asia, using Micro turbines to generate electricity is an extremely viable choice, according to studies done by the engineering department at Air University and conclusions from numerous literature sources. Micro turbines present a promising approach for efficiently using the region's enormous water supplies while preserving the delicate balance of its ecosystems due to their high power-generating density, low environmental impact, and possible economic benefits.

Performance Assessment



Rain Water Harvesting

Air university every structure has a separate drainage system for pure water (rainwater) and wastewater. Thus, rainwater is collected from building rooftops and then released into a lake that collects it for use by plants.

Water Conservation Program

Water conservation is the practice of using water efficiently to reduce unnecessary water usage. Air University Multan Campus have a proper drainage system, in case of heavy rain or flood, our system properly drains the water efficiently

Water Efficient Appliances Usage

By utilizing water-saving technology, the university focuses on lowering water consumption. Currently, our university is using 73.86% of the automatic faucets, flushes, and dual flushes available. This also covers the upkeep and alterations of sanitary equipment. Sanitary equipment that uses less water was installed in the majority of bathrooms and toilets.

Closet Appliance	Number of regular Appliances	Number of Efficient Appliances	Percentage of Efficient Appliances
Toilet	320	210	65
Wash basin	180	160	75.68
Average Percentage			73.86%

Policy - Water Management

To manage water resources for everyday usage, a very methodical and collaborative approach is required. Although the Air University has two tube wells for extracting water that is used for horticulture, CDA and Air Base additionally provide a dedicated water supply. Although plants naturally utilize rainwater, there isn't a specific water storage facility accessible due to space restrictions. All departments and offices have water dispensers that distribute drinking water through water filters. The Air University is dedicated to lowering water waste through traditional methods. The university currently does not have a water recycling plant. The University urges all employees, students, contractors, and



visitors to abide by the policy and associated procedures on water management to make the institute clean and green in order to uphold our moral commitments and water conservation objectives.

Water pollution control in the campus area

No open water spaces/reservoirs are available which can be polluted. Water tanks are covered. To water the lawn water sprinklers are used.

Student Learning & Academic Excellence



Air University offers diverse environmental science courses: Heat and Thermodynamics, Weather and Meteorology, Environmental Impact Assessment, Environmental Policy and Governance, Ecology and Biodiversity Conservation, and Environmental Chemistry. These courses equip students with essential skills to address environmental challenges and promote sustainable development.

Seminar on Climate Change about Life below Water

In order to address the issue of global warming and its detrimental effects on the environment and biodiversity, all Air University students participated in a climate seminar that covered the following topics: impacts of climate change on wildlife and air pollution, changes in forest cover, the vulnerability of urban flooding due to climate change, skin diseases caused by climate change, waste management, and water recycling.



15 LIFE ON LAND



PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

6

Publications

14

Research Projects

17

FYPs

Social Contribution & Participation

Aiming for a Pollution-Free Land

Air University and Friends of the Environment sign an MOU for the "from waste to plant" project. Through the use of the "Waste to Plant" principle, volunteers from Shaor Society are able to plant 19000 trees around Pakistan.

Animal Welfare

The Air University Biomedical Sciences Department and the Biomedical NUST Department work together to promote and contribute to initiatives to conserve biodiversity. The department also collaborates closely with authorities and conservation organizations to make sure that the sourcing of animals for the study is in line with conservation objectives and rules. This guarantees that research initiatives don't endanger biodiversity and support the overall preservation and protection of animal species.



Research Analysis

Harnessing Biogas and Natural Resources Investment

Our university department works to achieve sustainable growth and have a positive impact on the environment and society through strategic investments in biogas and natural resources. We play a critical role in accelerating the transition to a more sustainable future through producing renewable energy, engaging communities, undertaking research and innovation, teaching and raising awareness and achieving economic and environmental advantages.

Green Transformation for Society's Well-Being

For advancing corporate social responsibility that is concerned with the environment. It offers the required financial assistance and incentives for companies to adopt sustainable practices, finance eco-friendly endeavors, and promote environmental aims around the world. The partnership between Air University and Friends of the Environment demonstrates the commitment to environmental sustainability and demonstrates how green financing could help build a cleaner and greener future.



Performance Assessment

Sustainable Land Management

We have adopted environmentally friendly landscaping techniques, minimizing the use of chemicals and pesticides, and promoting native plant species that support local ecosystems.

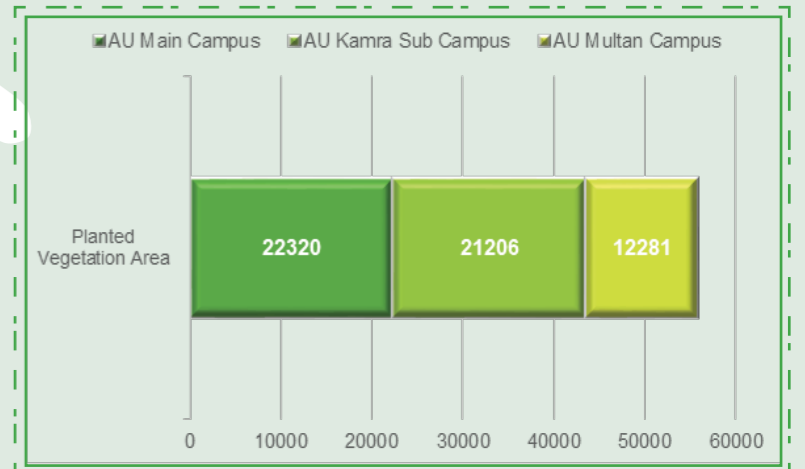
Research On Biodiversity And Ecosystems

Air University comprehends the complex relationships that exist between different species, habitats, and the environment. We promote a greater understanding of the significance of biodiversity and raise awareness about the risks it confronts by funding biodiversity research and incorporating it into curricula.

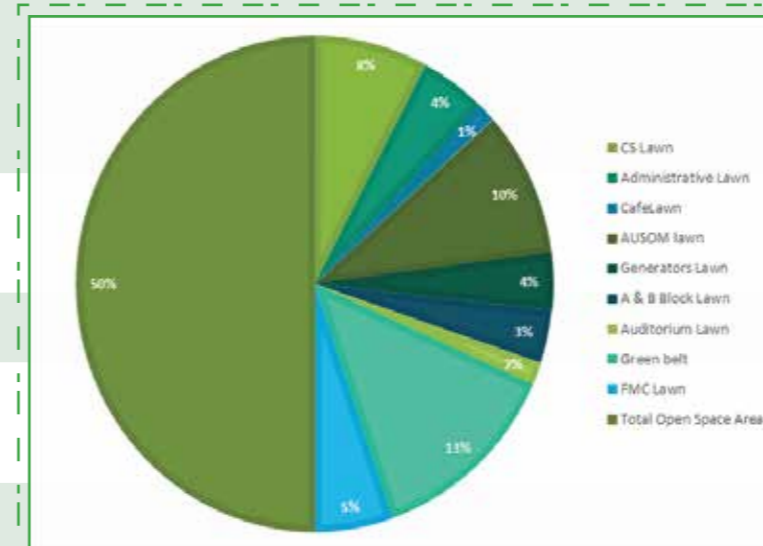
Air University Campus Covered in Forest Vegetation

Air University believes in biodiversity and the stabilization of natural systems. In order to combat the problem of global warming. To stabilize the soil and the slow water flow, Air University has planted vegetation and committed over 45% of its infrastructure to a forest.

Air University Planted Vegetation Covered Area



AU Islamabad



Student Learning & Academic Excellence

Our Green Vision

Implementing sustainable practices in campus operations is a crucial component of the university's Green Vision. This entails implementing green construction standards, adopting energy-efficient technologies, maximizing water use, encouraging trash minimization and recycling, and so forth.

Curriculum Integration

To guarantee that students have the knowledge and skills required for environmental stewardship, Air University integrates sustainability-related disciplines into its curriculum. Students gain a thorough awareness of environmental problems and solutions through courses on sustainable development, environmental management, and conservation principles.

16 PEACE, JUSTICE AND STRONG INSTITUTIONS



PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

3

Publications

5

Research Projects

16

FYPs

Social Contribution & Participation

Emerging Technologies - Impact on Conventional & Nuclear Strategy

The Faculty of Aerospace and Strategic Studies (FASS) at Air University, Islamabad, organized an international conference on the theme "Emerging Technologies - Impact on Conventional & Nuclear Strategy" in collaboration with the Strategic Vision Institute (SVI). Senior members of the media, government, and academics attended the event. Over 200 people antedated the conference with 150 students from different universities in Islamabad and other locations also present.



2nd Annual Conference on National Security – Conceptualizing National Security Framework: Challenges and Options

The one-day conference was attended by senior representatives of the academia, government, and diplomatic corps as well as more than 100 students from major universities in the Islamabad and Rawalpindi area. The discussion was based on the contours of a National Security Framework, geo-economics and its relevance as well as significance for Pakistan, the evolving global order and South Asian security, emerging technologies and strategic stability in South Asia, and young voices on a National Security Framework.



A Roundtable Discussion

A Roundtable discussion was organized on 7th March, 23 by the Faculty of Aerospace and Strategic Studies (FASS) where the pertinent matter of the Conference on Disarmament was elaborated on and discussed. Ambassador Khalil Hashmi presented his views on the future of CD followed by a rigorous discussion session.

Research Analysis

A Route for Aerospace and Strategic Studies

Air University has a dedicated department of aerospace, a strategic studies department, and an office for international cooperation. These departments work together to forge a solid link between national and international regions by inviting students and faculty to advance research with their expertise and to offer rational solutions

for the peaceful dialogue and stabilization of the south region with all other regions of the world.

Performance Assessment



Good Governance for the Strong Institutions

The administrative, academic, and research issues of Air University are handled by six primary statutory bodies i.e. Board of Governors, Academic council Meeting, Finance,

and planning committee, selection board, university functional committee, and faculty board of studies. It deals with the accountability and transparency of every stakeholder and the institute's tangible assets, safeguarding them from any violence and devastation both inside and outside the institution.

Our Integrity

To address the concerns, issues, and challenges of students, staff, and students for making fair decisions and to create a healthy environment for learning and working, Air University has established the Discipline Committee, the Unfair Means Committee, the AU Harassment Monitoring Cell, and the Center for Counseling and Psychological Services

Dealing Ethically and Morally With Social Media

We live in the age of digital technology, so it is necessary to maintain the peace and order of the university in accordance with its social media policy. Therefore, we have made a certain policy for the use of social media to prevent any individual conflicts of interest and protect the university's reputation from any violence while misusing the social media platform.

Student Learning & Academic Excellence

Educational Services

Air University has introduced three different programmers: BS international relations, MS Strategic Studies, and Ph.D. Strategic Studies for their students, staff, and faculty to gain the best knowledge for developing strong institutions, resolving conflicts at a large scale, and establishing stability and peace in the regions.

Visit and Talk by Election Commission Pakistan

Faculty of Aerospace and Strategic Studies hosted District Election Commissioner Mr. Waqas Malik. He talked about the local government elections of Islamabad and how the Election Commission of Pakistan has worked to ensure the structure is in place. Ms. Zille Huma of the Election Commission of Pakistan delivered her talk on the importance of voting and how the election process works.

Center for Aerospace and Security Studies (CASS)

The Faculty of Aerospace and Strategic Studies (FASS) arranged a visit for Students and briefed about CASS's publications, national and international engagements, internship opportunities, and the role of airpower in Pakistan

Visit by BASIC

A visit by BASIC, a non-profit think tank working to safeguard humanity and Earth's ecosystem from nuclear risks and interconnected security threats to the Department of Strategic Studies on 11th January 2023.



Visit by Fatih Sultan Mehmet Vakif University from Turkish

The Faculty of Aerospace and Strategic Studies (FASS) arranged a visit by Fatih Sultan Mehmet Vakif University to the Department of Strategic Studies on 07th, February. Potential areas of collaboration between the two institutions were discussed, highlighting opportunities for students of both countries through academic exchange programs.

Session conducted on Climate Change

Ms. Ameer Adil gave insightful information about the current climate problem during the event and emphasised the urgent need for group action to reduce its effects. She emphasised the significance of sustainable practises, renewable energy, and conservation efforts to prevent climate change by drawing on her experience as a climate activist. With her extensive knowledge of the Ministry of Climate Change, Ms. Zile Huma offered insightful opinions on the governance and policy facets of combating climate change. She spoke on the existing international programmes and agreements, as well as the function of governments and other international organisations in halting climate change and promoting resilience.



17 PARTNERSHIPS FOR THE GOALS



STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

3

Publications

3

Research Projects

5

FYPs

Social Contribution & Participation

To increase commercial engagement with global universities. Coventry University of UK and Air University have collaborated to promote the quality of education, teaching and research.

Northwestern Polytechnical University China

The university management visited Air University to strengthen their relationship and persuade the student to enroll in the Ph.D. program.

Collaboration between Cyber Wales UK and Air University

Air University has taken the initiative to increase its understanding of cyber security with the help of cyber wales institute.

Collaboration Between University of Essex and Air University

In collaboration with the University of Essex, Air University has created this useful platform to assist their faculty and students in better understanding global academic practices and research through University of Essex guest lectures.

Sustainable Development dialogue

With the support of NUST the University of the University, Director QEC of Air University attended the SDGs dialogue session and discussed the strategic vision for effectively implementing the SDGs policies and standards in the educational sector and overcoming the challenges posed by the threats of climate change and natural disaster.



Research Analysis

Research Synthesis

Our university has developed a policy for cut-edge best practices by combining research findings from several national and international platforms. This synthesis can operate as a basis for the creation of global best practices for the implementation of the SDGs.

Interdisciplinary Research

Our university has created a forum for interdisciplinary collaboration that transcends conventional academic boundaries. We create and

support interdisciplinary research teams that unite specialists from many sectors in order to find comprehensive answers to difficult sustainability concerns.

National Research Investments

National Funding Opportunities (HEC-NRPU), National Research Programme for Universities (HEC-TDF), Technology development fund (HEC), Grand challenge fund (HEC), Local challenge fund (HEC), Start-up research grant research (HEC SRGP), Social integration outreach program (HEC-SIOP), National Engineering and Scientific Commission (NESCOM) Pakistan Aeronautical complex karma (PAC KAMRA), Pakistan Council of Science and Technology (PCST), Pakistan Science Foundation (PSF) and Ignite.

International Research investments

United Nation's Global Climate Action Award, Fonds Ernest Solvay, British Council Free Online Courses 2020, Indigenous PH.D. Fellowship Program, U.S. Department of Agriculture, U.S. Department of State, Common Fund for Commodities (CFC), National Geographic Society and Microsoft's AI for Earth program, Cipher Grant Programme, AHRC Global Challenges Research Fund (GCRF) Urgency Grants Pilot, Emerald Interdisciplinary Research Fundt

Performance Assessment



Formal Collaborations with National Universities/ Companies

AU has also established formal links leading to the signing of MoUs for academic/ research collaborations with 24 local universities and companies so far.

AU has established formal links leading to the signing of MoUs / MoAs for academic / research collaborations with 40 foreign universities and companies so far.



Air University International QEC memberships

The International Network for Quality Assurance Agencies (IQAA-HE), Asia Pacific Quality Network (APQN), and Association of Quality Assurance Agencies of the Islamic World (AQAAIW).



Air University International Cooperation Office

The International Cooperation Office (ICO) has a proactive take on the added significance and importance of ongoing globalization. It has diversified, in terms of formats -- including personal exchange, data exchange, bilateral workshops, international conferences, joint research centers, project base joint research groups, joint laboratories - the global outreach of the university.

Student Learning & Academic Excellence

Outreach Educational Activities

Alumni are actively engaged in training and seminars, to share their knowledge and experience with graduating students.

Student Exchange Program

Air University ICO Office has launched the student exchange program, which has given all students the open opportunity to study in the abroad as per their own internes and explore their talent through this program.

International Webinar

Students from Air University participated in an online webinar led by a University Of Northwood from the US to better understand the admissions process.



Author

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