

## Courses on Environmental Sustainability

### Overview

Air University Islamabad offers a range of undergraduate and postgraduate courses that specifically address climate science and environmental sustainability. These courses are embedded within various academic programs offered by the faculties of Engineering, Computing & AI, and Social Sciences, as well as through interdisciplinary electives. Topics covered include environmental management systems, renewable energy technologies, sustainable development, green computing, and the societal impacts of climate change.

Air University demonstrates an enduring commitment to environmental sustainability, guided by the United Nations Sustainable Development Goals (SDGs). Through a comprehensive integration of sustainability in education, research, and community outreach, the university seeks to play an active role in addressing today's global challenges. In line with SDG 13 (Climate Action) and SDG 4 (Quality Education), the institution encourages research and learning that equip students with the knowledge and skills needed to become sustainability-minded leaders.

Moreover, sustainability themes are incorporated into thesis projects, capstone research, and co-curricular activities to ensure practical understanding and engagement. This approach reflects the university's holistic vision under the **Environmental Impact** category of the QS Sustainability Rankings, aiming to contribute meaningfully to global climate resilience and environmental stewardship.

### EE1 – Academic Reputation in Earth & Environment

**Status & Progress:** Air University maintains an interdisciplinary approach to environmental education by embedding sustainability-related content across a range of programs. While Earth and Environmental Sciences are not offered as standalone degree programs, key sustainability themes are reflected in academic, research, and institutional activities.

#### Highlights:

- Introduction of environmental sustainability concepts in various academic disciplines.
- Establishment of the Research Centre for Environmental Sustainability within the Business Incubation Centre, facilitating innovation in climate science, sustainable technologies, and applied research.

**Strategic Focus:** The university is exploring further opportunities to enhance academic contributions in the environmental domain through new initiatives and potential program offerings. Strengthening its academic footprint in environmental research remains a strategic area for development.

## EE2 – Alumni Impact for Environmental Sustainability

**Status & Progress:** Air University graduates are contributing to sustainability goals across diverse sectors, including public service, innovation, and private enterprise. Many of these impacts are the result of academic grounding in sustainability principles delivered through interdisciplinary courses.

Highlights:

- Alumni-led startups incubated through the university's Business Incubation Centre, contributing to sustainable solutions and technological innovation.
- Alumni engagement in community-based and policy-level sustainability efforts.

**Strategic Focus:** The university continues to enhance mechanisms for capturing alumni contributions through structured engagement platforms and stakeholder feedback. Dedicated efforts are underway to showcase and scale alumni impact in the sustainability domain.

## EE3 – Climate Science and/or Sustainability Courses

**Status & Progress:** Air University offers a robust portfolio of over 170 undergraduate and postgraduate courses that incorporate themes of sustainability, climate science, and environmental responsibility.

Highlights:

- Courses span disciplines such as computer science, engineering, psychology, management, and international relations.
- Consistent inclusion of sustainability across campuses in Islamabad, Kamra, and Multan.
- Emphasis on responsible use of resources, ecosystem preservation, and climate resilience.

**Strategic Focus:** The university aims to further expand the integration of sustainability into curricula, alongside the potential introduction of certificates and micro-credentials focused on environmental literacy.

**Evidence:**

- **Annex A:** Photographs from courses, labs, or events showcasing environmental themes.
- **Annex B:** List of sustainability-focused courses with descriptions.
- **Annex C:** Case studies or summaries of alumni/startups with environmental impact.

- **Annex D:** Details of the Research Centre and incubation initiatives.

**Prepared by:** Quality Enhancement Cell (QEC)

**Air University Islamabad**

**For submission to:** QS Rankings - Environmental Impact Category

**Annex A:** Photographs from courses, labs, or events showcasing environmental themes

Semester VI			
TH 334	Marketing Management in Tourism & Hospitality	3-0-3	MK 101
TH 363	Destination Management	3-0-3	-
TH 364	Event Management	3-0-3	-
TH 363	Sustainability in Tourism & Hospitality	3-0-3	-
BA 363	Business Research Methods	3-0-3	-

Elective Courses		
Human Resource Management	Marketing	Finance
Contemporary Topics in Human Resource Management	Marketing Strategy and Management	Money and Capital Markets
Strategic HRM: Concepts and Applications	Strategic Services Marketing	Basil I & II
Industrial Psychology and Organizational Behavior	International Marketing	Corporate Securities and Regulatory Framework
Staffing and Performance Management	Strategies for Emerging Markets	Global Asset and Wealth Management
Human Resource Development	Topics in Advertising and Integrated Marketing Communications (IMC)	Financial Theory
Organizational Development (Od)	Sales Management	Corporate Valuation
Human Capital Management	Business to Business Marketing	Corporate Valuation Investment Analysis and Corporate Portfolio Management
Development and Retention	Strategic Brand Management	Dynamic Asset Pricing Theory
Knowledge Management & HRIS	Integrated Marketing Communications	Financial Risk Management
Leadership and Motivational Skills	Marketing in Hospitality and Tourism Industry	Financial Derivatives
Legal Systems, Labor Relations, and Regulatory Practices	Agriculture Marketing	International Finance
Corporate Ethics	Social Media Advertising	Capital Risk Management
Labor Laws	Digital Marketing	Financial Econometrics
Topics in Conflict and Negotiation Management	The Psychology of Judgment and Decision Theory	Empirical Finance
Quantitative Research Methods in the Human Resource Management	Topics in Consumer Behavior	Financial Modeling
HR Analytics: Methods and Applications	Consumer Behavior Models	SME and Rural Finance
	Culture and Persuasion	Islamic Banking and Finance
	Marketing Models	Venture Capital and Private Equity
	Attitudes and Persuasion	
	Distribution & Logistics	
	Product Innovation & Development	
	Customer Relationship Management	

## **Annex B:** List of sustainability-focused courses with descriptions.

### **Course Descriptions**

#### **Course Title: Introduction to Information and Communication Technologies (CS 180)**

**Sustainability Alignment:** This course develops digital literacy while promoting inclusive access to technology and teamwork, contributing to social sustainability by equipping students with collaboration and problem-solving skills essential for sustainable innovation.

#### **Course Title: Programming Fundamentals (CS 111)**

**Sustainability Alignment:** By embedding analytical thinking and problem-solving frameworks, this course supports quality education and social equity, both central themes of SDG 4 and SDG 10.

#### **Course Title: Professional Practices (CS 270)**

**Sustainability Alignment:** Focuses on ethics, social responsibility, and professional conduct in the digital age—enabling future professionals to consider the societal impact of technological solutions.

#### **Course Title: Data Structures and Algorithm (CS 214)**

**Sustainability Alignment:** Introduces efficiency and optimization—principles essential for the development of sustainable and scalable software systems.

#### **Course Title: Mobile Computing (CS 281)**

**Sustainability Alignment:** Encourages the design of energy-efficient and inclusive mobile applications, contributing to sustainable technology practices in underserved areas.

#### **Course Title: Artificial Intelligence (CS 340)**

**Sustainability Alignment:** Encourages development of AI-driven solutions to global challenges such as resource optimization, smart cities, and environmental monitoring.

#### **Course Title: Environmental Psychology (PY380)**

**Sustainability Alignment:** Directly addresses human-environment interactions and psychological responses to climate change, fostering environmentally responsible behavior.

#### **Course Title: Introduction to Environmental Studies (HU126)**

**Sustainability Alignment:** Provides foundational knowledge of global environmental issues, sustainable development goals, and climate literacy across disciplines.

#### **Course Title: Principles of Health Care (HC241)**

**Sustainability Alignment:** Emphasizes public health, equitable access, and sustainable healthcare delivery systems aligned with SDG 3.

**Course Title: Software Construction and Development (SE313)**

**Sustainability Alignment:** Integrates environmentally sustainable software design principles and encourages development of green technology applications.

**Course Title: Cultural Heritage of Pakistan (TH241)**

**Sustainability Alignment:** Promotes cultural preservation and awareness, aligning with environmental stewardship and sustainable tourism.

**Course Title: Ethical Hacking & Defense I (CY244)**

**Sustainability Alignment:** Highlights ethical responsibility and the protection of critical digital infrastructure as part of secure, sustainable digital ecosystems.

**Course Title: Full Stack Web Development (CS 300)**

**Sustainability Alignment:** Advocates for sustainable UI/UX practices and efficient backend systems to reduce digital carbon footprints.

**Course Title: Tourism & Hospitality Laws (TH212)**

**Sustainability Alignment:** Reinforces regulatory frameworks for eco-tourism and sustainable hospitality management.

**Course Title: Pakistan Studies (HU110)**

**Sustainability Alignment:** Encourages civic responsibility and understanding of national environmental and development policies.

**Course Title: Entrepreneurship (CE491)**

**Sustainability Alignment:** Encourages innovation in green businesses, social entrepreneurship, and environmentally responsible startups.

**Introduction to Psychology (HU213)**

Promotes understanding of individual and group behavior in the context of social well-being, contributing to SDG 3 and social sustainability through mental health awareness and social cohesion.

**Introduction to Sociology (HU214)**

Explores social systems, equity, and institutions, helping students understand the societal impacts of sustainable development and justice, aligned with SDG 10 and 16.

**Ethics (HU215 / HU315)**

Builds ethical decision-making frameworks essential to social responsibility and sustainability in various professional contexts.

**Foreign Languages: Arabic, French, Chinese (HU217, HU218, HU219)**

Foster cross-cultural understanding and global citizenship, supporting inclusive and sustainable societies as envisioned in SDG 4 and 17.

**Introduction to Environmental Studies (HU221)**

Introduces core principles of environmental science, sustainable ecosystems, and climate literacy aligned with SDGs 13 and 15.

**Human Rights and Citizenship (HU223)**

Develops understanding of civil rights, civic responsibility, and social justice, reinforcing goals related to peace, justice, and strong institutions (SDG 16).

**Technical Report Writing / Business & Academic Writing (HU304, HU305, HU307, HU401, HU501)**

Develops communication skills vital for disseminating sustainability research, writing proposals, and participating in civic dialogue.

**Contemporary International Relations / International Law / Security & Conflict Analysis (HU314, HU316, SS627, SS611)**

Examines the role of diplomacy, governance, and institutional collaboration in achieving sustainable peace and development.

**Community Service Learning (HU406)**

Promotes experiential learning and social engagement with local communities to address sustainability challenges.

**Peace Psychology / Gender Issues in Psychology (PY462, PY415)**

Addresses peacebuilding and equity, aligned with SDGs 5 and 16, by promoting inclusive, peaceful societies.

**Tourism & Hospitality (TH313, TH414, TH212, TH242)**

Encourages sustainable tourism practices and strategic management for cultural preservation, local development, and environmental sustainability.

**Health Care Planning and Management (HC221, HC241, HC352, HC333, HC336)**

Focuses on sustainable and equitable healthcare systems that improve public health outcomes and promote responsible resource use (SDG 3).

**Finance and Economics (AF102, AF772, BA111, BA112, BA484)**

Introduces financial and economic principles that support sustainable business decision-making, including ESG (Environmental, Social, and Governance) awareness.

**Entrepreneurship, MIS, and Project Management (CE491, BA157, BA475)**

Prepares students to build innovation-driven ventures and manage systems efficiently in alignment with sustainable business practices.

**International Relations & Political Science (IR100, IR101, IR131, IR425)**

Provides insight into global challenges and the interdependence of environmental, political, and economic systems.

**Capstone and Final Year Projects (XX XXX)**

Enable students to engage in interdisciplinary problem-solving related to real-world sustainability challenges across fields.

**Other Notable Courses**

- **Self-Development (BA106):** Focuses on personal responsibility, ethics, and leadership for sustainability.
- **Introduction to Artificial Intelligence (CS438):** Encourages development of intelligent systems for smart cities and environmental monitoring.
- **Information Security (CY406):** Supports the protection of digital systems vital to modern sustainable infrastructure.
- **Global Sourcing & Logistics / Supply Chain Management (SC703, SC711):** Encourages responsible production and supply chain practices.

<b>Program</b>		<b>Courses related to sustainability</b>
<b>Department of Business Administration</b>	<b>of</b>	<b>Department of Education</b>
<ul style="list-style-type: none"> <li>• Business Analytics</li> <li>• E-commerce &amp; Digital Marketing</li> <li>• Entrepreneurship</li> <li>• International Business Management</li> <li>• Logic and Critical Thinking</li> <li>• Project Management</li> <li>• Supply Chain Management</li> <li>• Microeconomics</li> <li>• Macroeconomics</li> <li>• Organizational Behavior</li> <li>• Business Ethics</li> <li>• Self-Development</li> <li>• Pakistan Economy</li> </ul>		<ul style="list-style-type: none"> <li>• Civics and Community Engagement</li> <li>• Introduction to Environmental Science</li> <li>• Introduction to Environmental Studies</li> <li>• Introduction to Geography</li> <li>• Introduction to Human Rights &amp; Citizenship</li> <li>• Introductory Biology</li> <li>• Pedagogy</li> <li>• School, Community and Teacher(Foundation)</li> </ul>
<b>Department of Computer Science</b>		<b>Department of Mathematics</b>
<ul style="list-style-type: none"> <li>• Artificial Intelligence</li> <li>• HCI and Computer Graphics</li> <li>• Professional Practices</li> <li>• Public Relations</li> </ul>		<ul style="list-style-type: none"> <li>• Cryptography</li> <li>• Theory of Viscous Fluids</li> </ul>

<b>Department of Psychology</b> <ul style="list-style-type: none"><li>• Biological Basis of Behavior</li><li>• Environmental Psychology</li><li>• Community Service</li><li>• Peace Psychology</li><li>• Community Psychology</li><li>• Gender Issues in Psychology</li><li>• Health Psychology</li><li>• Mental health and Psychopathology</li></ul>	<b>Department of Electrical &amp; Computer Engg</b> <ul style="list-style-type: none"><li>• Ethics</li><li>• International Relations</li></ul>
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Specialised Courses on Sustainability:-



### Course list related to sustainability (Up To 5th Semester)

Course Title	PLO 06: Ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.	PLO 7: Ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.	PLO 8: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
Applied Chemistry		✓	
Workshop Practice - I			✓
Communication Skills			✓
Workshop Practice - II			✓
Islamic Studies/ Ethics	✓		✓
Thermodynamics - II		✓	
Health, Safety and Environment	✓		
Manufacturing Process - I Lab			✓
Manufacturing Processes - II Lab			✓

### Number of Courses/Subjects Related to Sustainability Offered

This annex outlines select courses offered by Air University that incorporate sustainability-related content in line with QS Sustainability Indicator EE3 (Climate Science and/or Sustainability Courses). These courses promote interdisciplinary learning and are strategically aligned with the United Nations Sustainable Development Goals (SDGs). Descriptions have been refined to highlight their contribution to social, environmental, or economic sustainability.

List of Courses currently offered at Air University

<b>Course Code</b>	<b>Course Name</b>
<b>CS 180</b>	Introduction to Information and Communication Technologies
<b>CS 111</b>	Programing Fundamentals
<b>CS 270</b>	Professional Practices
<b>CS 214</b>	Data Structures and Algorithm
<b>CS 223</b>	Computer Organization and Assembly Language
<b>CS 225</b>	Operating System
<b>CS 281</b>	Mobile Computing
<b>CS 230</b>	Database Systems
<b>CS 360</b>	Computer Networks
<b>CS 332</b>	Design and Analysis of Algorithm
<b>CS 382</b>	Visual Programming
<b>CS 333</b>	Theory of Automata
<b>CS 340</b>	Artificial Intelligence
<b>CS 371</b>	Software Engineering
<b>CS 426</b>	Parallel and Distributed Computing
<b>CS 415</b>	Information Security
<b>CS 406</b>	Data Science
<b>CS 402</b>	Data warehousing and Data Mining
<b>CS 300</b>	Full Stack Web Development
<b>CS 484</b>	Cloud Computing
<b>CS 383</b>	Multimedia Technologies
<b>CS 290</b>	Internship-I
<b>ME 100</b>	Introduction to Mechanical Engineering
<b>ME 140</b>	Workshop Practice-I
<b>ME 139</b>	Engineering Drawing and Graphics
<b>ME 222</b>	Engineering Dynamics
<b>ME 233</b>	Fluid Mechanics-II
<b>ME 248</b>	Manufacturing Process-I
<b>ME 327</b>	Machine Design-I
<b>ME 312</b>	Instrumentation and measurement
<b>ME 349</b>	Computer Aided Engineering
<b>EE405</b>	VLSI Design
<b>EE462</b>	Computer Networks
<b>EE500</b>	Final Year Project III
<b>EE402</b>	Power Electronics II
<b>EE354</b>	Control Systems
<b>EE498</b>	Final Year Project I
<b>EE341</b>	Electrical Machines
<b>EE201</b>	Network Analysis
<b>EE102</b>	Electric Circuit Analysis
<b>CE101</b>	Computer Organization Fundamentals
<b>CE202</b>	Computer Architecture

<b>CE311</b>	Software Engineering
<b>CE498</b>	Final Year Project II
<b>CE491</b>	Entrepreneurship
<b>CE499</b>	Final Year Project III
<b>CE402</b>	Introduction to Robotics
<b>MT102</b>	Workshop Practice
<b>MT396</b>	Final Year Project I
<b>MT142</b>	Electric Circuits Analysis
<b>MT252</b>	Signals and System
<b>MT396</b>	Final Year Project I
<b>MT373</b>	Modeling and Simulation in Mechatronics
<b>BM121</b>	Circuit Analysis
<b>BM113</b>	Human Anatomy
<b>BM131L</b>	Computer Aided Engineering Drawing
<b>IT495</b>	Final Project II
<b>IT494</b>	Final Year Project I
<b>CY250</b>	Secure Software Development
<b>CY244</b>	Ethical Hacking & Defense I
<b>CY345</b>	Ethical Hacking and Defense II
<b>CY494</b>	Final Project I
<b>CY351</b>	Web Application Security
<b>CY495</b>	Final Project-II
<b>MA498</b>	Final Year Project I
<b>MA499</b>	Final Year Project II
<b>PH201</b>	Heat and Thermodynamics
<b>PH207</b>	Physical Electronics
<b>PH205</b>	Electrodynamics
<b>PH204</b>	Optics
<b>AM201</b>	Introduction to Aviation
<b>AM203</b>	Weather and Meteorology
<b>AM330</b>	Aviation Marketing
<b>AM334</b>	Aviation Economics
<b>AM323</b>	Aviation Security Management
<b>AM445</b>	Human Factors in Aviation
<b>AM453</b>	Airline Finance
<b>BA111</b>	Financial Accounting I
<b>BA151</b>	Principles of Management
<b>BA112</b>	Financial Accounting II
<b>BA484</b>	Financial Risk Management
<b>BA475</b>	Project Management Information Systems
<b>AF141</b>	Principles of Accounting
<b>HC241</b>	Principles of Health Care
<b>HC221</b>	Health Care Policy & Management
<b>TH110</b>	Public Relations
<b>TH241</b>	Cultural Heritage of Pakistan
<b>TH212</b>	Tourism & Hospitality Laws

<b>PY220</b>	Ethical Issues in Psychology
<b>PY360</b>	Social Psychology
<b>PY380</b>	Environmental Psychology
<b>SE313</b>	Software Construction and Development
<b>SE211</b>	Human Computer Interaction
<b>GM231</b>	3D Design and Modelling
<b>AI130</b>	Programming for Artificial Intelligence
<b>IR100</b>	Introduction to International Relations
<b>IR101</b>	International Relations since 1945
<b>HU110</b>	Pakistan Studies
<b>HU126</b>	Introduction to Environmental Studies
<b>HU205</b>	Business Communication
<b>HU213</b>	Introduction to Psychology
<b>HU214</b>	Introduction to Sociology
<b>HU215</b>	Ethics
<b>HU217</b>	Foreign Language: Arabic
<b>HU218</b>	Foreign Language: French
<b>HU219</b>	Foreign Language : Chinese
<b>HU221</b>	Introduction to Environmental Studies
<b>HU222</b>	Introduction to International Relations
<b>HU223</b>	Human Rights and Citizenship
<b>HU223</b>	Introduction to Human Rights & Citizenship
<b>HU304</b>	Technical Report Writing
<b>HU305</b>	Technical Report Writing
<b>HU307</b>	Technical Report Writing
<b>HU314</b>	Contemporary International Relations
<b>HU315</b>	Ethics
<b>HU316</b>	International Relations
<b>HU317</b>	Interpersonal Skills/ Public Relations
<b>HU318</b>	Public Relations
<b>HU319</b>	Principles of Economics
<b>HU324</b>	Arabic
<b>HU325</b>	Islamic History and Culture
<b>HU401</b>	Technical & Business Writing
<b>HU406</b>	Community Service Learning
<b>HU501</b>	Academic Writing
<b>HU607</b>	Modern Literature
<b>HU613</b>	Language and Identity
<b>HU614</b>	Functional Linguistics
<b>HU615</b>	Pakistani English
<b>PY220</b>	Ethical Issues in Psychology
<b>PY212</b>	Theories of Personality
<b>AF 102</b>	Financial Accounting-I
<b>IR 131</b>	Introduction to Strategic Studies
<b>IR 100</b>	Introduction to International Relations
<b>TU001</b>	Advisory Class

<b>IR 425</b>	Religion and world politics
<b>EL 105</b>	Functional English
<b>EL 106</b>	Communications Skills
<b>EL 203</b>	Technical Writing and Presentation Skills
<b>BA 157</b>	Management information systems
<b>MA 301</b>	Probability and statistics
<b>CY406</b>	Information Security
<b>CG213</b>	Game Quality Assurance
<b>CS111</b>	Programming Fundamentals
<b>BA101</b>	Introductory Biology
<b>BA106</b>	Self-Development
<b>CS438</b>	Introduction to Artificial Intelligence
<b>SE 600</b>	Advanced Software Engineering
	Research Methodology
<b>PY 621</b>	Psycho Diagnostics Assessment of Adults
<b>PY 620</b>	Psycho Diagnostics Assessment of Children
<b>TH 242</b>	Culture Tourism
<b>TH 313</b>	Tourisms Marketing
<b>HC 352</b>	Health Care Planning
<b>HC 333</b>	Health care Inventory management
<b>SC703</b>	Global Sourcing and Logistics
<b>SC711</b>	Supply Chain management Essentials
<b>HC 336</b>	Health care Economics
<b>PY425</b>	Case Report and Practicum
<b>PY 462</b>	Peace Psychology
<b>PY 415</b>	Gender Issues in Psychology
<b>CY334</b>	Digital Forensics
<b>CY 335</b>	Vulnerability assessment and reverse engineering
<b>AF 772</b>	Financial Econometrics
<b>SS 611</b>	Security and Conflict Analysis
<b>SS 717</b>	Civil-Military Relations: Theory and Practice
<b>SS 627</b>	International Law
<b>HU 405</b>	Ideology and Constitution of Pakistan
<b>MA120</b>	Mathematics and Logics I
<b>MA 112</b>	Mathematics and Logics II
<b>XX XXX</b>	Final year Project I
<b>XX XXX</b>	Final Year Project II
<b>XX XXX</b>	Final Year Project III
<b>XX XXX</b>	Capstone Project I
<b>XX XXX</b>	Capstone Project II
<b>TH 414</b>	Strategic Mgt, for Tourism & Hospitality

# A Human-Centered Approach to Academic Performance Prediction Using Personality Factors in Educational AI

by Muhammad Adnan Aslam <sup>1,†</sup> , Fiza Murtaza <sup>1,†</sup> , Muhammad Ehatisham Ul Haq <sup>1,†</sup> , Amanullah Yasin <sup>1,†</sup>  and Muhammad Awais Azam <sup>2,\*†</sup> 

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The Impact of Fashion Involvement and Pro-Environmental Attitude on Sustainable Clothing Consumption: The Moderating Role of Islamic Religiosity

Ali Razaq, Nabeel Younus Ansari, and Hayat Muhammad Awan
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### Abstract

There is a general belief that fashion involvement leads toward unsustainability. To resolve this issue, the present study aims to explore that whether sustainable fashion consumption is characterized by an individual's fashion consciousness and his pro-environmental attitude or not. In addition, how an individual's religiosity can moderate this relationship. For the purpose of collecting the data, a survey questionnaire method was applied by making use of adopted measurement scales from the previous

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Project No.	Project Title	Department of Mechanical & Biomedical Engineering Air University FYP (Session 2020-24)																
		SDG 1	SDG 2	SDG 3	SDG 4	SDG 5	SDG 6	SDG 7	SDG 8	SDG 9	SDG 10	SDG 11	SDG 12	SDG 13	SDG 14	SDG 15	SDG 16	SDG 17
2001	Low-cost Force Based Two Stage Ball Accelerator Test Rig							✓		✓				✓				
2002	Pipeline Inspection Robot								✓	✓								
2003	Design and Fabrication of a Test Bench for Testing Various Types of Motion using Mechanism (using Concept)									✓			✓					
2004	Design and Fabrication of Smart Helicopter for Micro and Nano Scale			✓														
2005	Wind Turbine IoT									✓				✓				
2006	Flapping Wings UAV									✓				✓				
2007	Wall Climbing Robot								✓	✓								
2008	Design and Fabrication of a Snake-Like Robot for Search and Rescue									✓							✓	
2009	Electric Portable Concrete Mixer and Finishing Machine							✓	✓	✓		✓	✓					
2010	Design and Fabrication of a Test Bench for Testing Various Types of Motion using Mechanism (using Concept)									✓					✓		✓	
2011	Design and Fabrication of Ball Stabilization for Hand Therapy			✓						✓	✓	✓						✓
2012	Design and Development of Ultra-Small Scale Robot			✓					✓	✓	✓	✓				✓		
2013	Smart Trash Segregation System											✓	✓	✓				
2014	Wind Detection and Elimination for Agricultural Application		✓					✓		✓			✓			✓		
2015	Automated Weeding Machine for Pharmaceutical Products			✓						✓		✓	✓					✓
2016	Human Mimicking Composite Robot with Bionics			✓														
2017	Design of an Experiment for Studying the Effect of PCM Application on the Performance of Solar Panels							✓				✓	✓					
2018	Electric Smart Vacuum Cleaner and Litter Picker			✓										✓		✓		
2019	3D-Printed Filament Extruder Mechanism									✓			✓	✓				
2020	Variable Rediged Vacuum Flow (VRF) System Tester							✓		✓				✓				
2021	Smart Medical Planning								✓	✓			✓					
2022	Design, Modeling and Motion Control of a Mobile Robotic Arm			✓					✓	✓								
2023	Autonomous Mobile Robot			✓	✓				✓	✓	✓	✓						
2024	Autonomous Rover									✓		✓		✓				
2025	Smart Energy Tester for Smart Home Integration							✓					✓	✓				
2026	Auto and CNC Wood Router									✓								
2027	Automatic Clay Application for Football Panels								✓	✓								



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### BSCGD FYPs SDG (Session 2020-24)

Department of Computer Games Development			SDG 1	SDG 2	SDG 3	SDG 4	SDG 5	SDG 6	SDG 7	SDG 8	SDG 9	SDG 10	SDG 11	SDG 12	SDG 13	SDG 14	SDG 15	SDG 16	SDG 17
Sr No.	Supervisor	Project Title	No Poverty	Zero Hunger	Good Health & Well-being	Quality Education	Gender Equality	Clean Water and Sanitation	Affordable and Clean Energy	Decent work & Economic Growth	Industry, Innovation & Infrastructure	Reduced Inequalities	Sustainable cities and communities	Responsible Consumption & Production	Climate Action	Life Below Water	Life on Land	Peace, Justice & Strong Institutions	Partnerships for the Goals
1	Mr. Usman Sarwar	VR Revolutionizing Restaurants								✓									
2	Dr. Numan Ali	AR Development in Medical Field			✓														
3	Dr. Hameed Urrahman	AI for Animation: Deep Learning for Character Control												✓					
4	Dr. Numan Ali	Simulation-based Training for Armed Forces			✓														
5	Dr. Hameed Urrahman	Animation based Guidance for Pilgrimage			✓														
6	Mr. Usman Sarwar	Video Games for Ethical Built-up of Children				✓													
7	Dr. Talha	Bladestorm AI: Next-Gen NFT-based Game									✓								
8	Dr. Hameed Urrahman	VR Golf									✓								
9	Dr. Hameed Urrahman	Animation Series on the Affect of Smoking on Human Health			✓														
10	Mr. Usman Sarwar	Journey for the Bliss Arcane									✓								
11	Dr. Numan Ali	Story-based Open World Game									✓								
12	Mr. Amir Ali	Game for Dyslexia Students				✓													
13	Dr. Hameed Urrahman	Pakistan Racing Game				✓													
14	Mr. Amir Ali	Web 3.0 based Mobile Game								✓									
15	Mr. Amir Ali	Football Trainer				✓													

Dr. Hameed Urrahman  
Professor & HoD  
Department of Computer Games Development  
Air University Islamabad

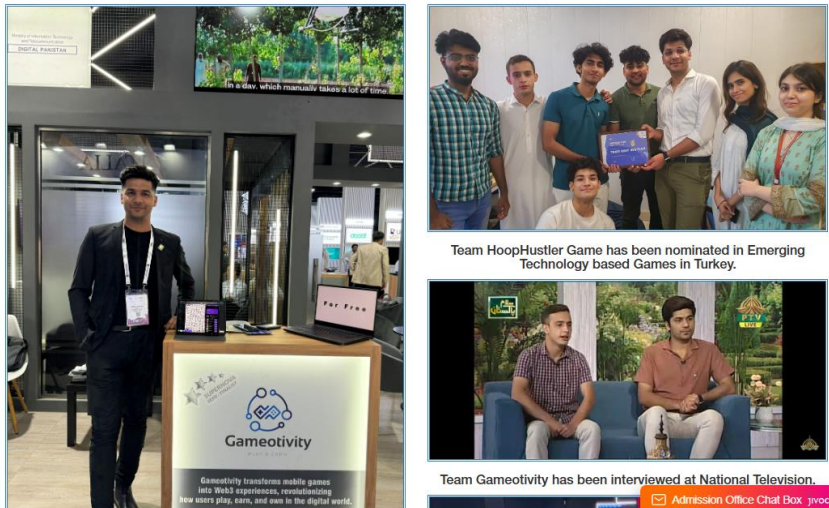


<div><div></div><div><div>Adnan Ahmed Sheikh</div><div>Air University Multan</div><div>Verified email at aumc.edu.pk</div><div>Technology Marketing Leadership Sustainability</div></div></div> <div><div><div><div>TITLE</div><div>CITED BY</div><div>YEAR</div></div><div><div>Energy Diversification: A Friend or Foe to Economic Growth in Nordic Countries? A Novel Energy Diversification Approach</div><div>2</div><div>2022</div></div><div><div>Linking Service-oriented High-Performance Work Practices Bundle with Person-Job Fit, Person Organization Fit and Affective Commitment: A Parallel Mediation Analysis</div><div></div><div>2022</div></div><div><div>Nexus between Nuclear Energy Consumption and Carbon Footprint in Asia Pacific Region: Policy toward Environmental Sustainability</div><div></div><div>2022</div></div><div><div>Improving Consumer-Based Green Brand Equity: The Role of Healthy Green Practices, Green Brand Attachment, and Green Skepticism</div><div></div><div>2022</div></div><div><div>Green Finance and Green Energy Nexus in ASEAN Countries: A Bootstrap Panel Causality Test</div><div>5</div><div>2022</div></div><div><div>Exploring the Causal Relationship among Green Taxes, Energy Intensity, and Energy Consumption in Nordic Countries: Dantrecca and Hurlin Causality Approach</div><div>3</div><div>2022</div></div></div><div><div>Cited by</div><div><div><div>All</div><div>Since 2017</div></div><div><div>Citations: 299</div><div>h-index: 8</div><div>i10-index: 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## Example of Courses/Subjects Related to Sustainability

**Annex C: Case studies or summaries of alumni/startups with environmental impact.  
(ORIC)**

**1. Gamotivity:**



Team HoopHustler Game has been nominated in Emerging Technology based Games in Turkey.

Team Gameotivity has been interviewed at National Television.

Admission Office Chat Box jvachat



**PEHLA SABAQ PRESENTS**

NARRATING ISLAMABAD:  
A CONVERSATION ON DANDELION BLOOMS

DATE: FRIDAY, 11TH OCTOBER  
VENUE: AUSOM AUDITORIUM  
TIME: 2:30 PM  
ENGLISH DEPT  
FACULTY OF SOCIAL SCIENCES

CONVENER: PROF. DR. WASIMA SHEHZAD  
FOCAL PERSON: DR. MARIA FAROOQ MAAN

SAUD MUKHTAR  
AUTHOR  
CONSULTANT  
DEVELOPMENT SECTOR EXPERT

LOOK FORWARD TO  
DANDELION BLOOMS  
Saud Mukhtar

MEET AND GREET  
WITH THE AUTHOR  
&  
EXCLUSIVE BOOK SIGNING

Faculty of Social Sciences, Air University  
Department of English  
Graduate Seminar Series



# Debunking the Myth of “Empowerment”

**Convener**  
Prof. Dr. Wasima Shehzad

**Focal Person**  
Dr. Maria Farooq Maan

**Moderators**  
Javeria Jamali & Mariya Usman

**SPEAKER**



**Dr. Anjam Chaudhary**  
Global DEI Director | Director, Humphrey Fellowship Program | NAFTA Leader | Co-Founder, 3KIND







## Training on Critical Care Equipment

Join us for a comprehensive training session lead by **Ahmed Ali Shah**, a highly experienced engineer with certifications from **Philips** and **Mindray**.

**December 12th, 2024 | 10:00 AM - 01:00 PM**

CPD Training Room, C Block Basement,  
Air University, Islamabad





**Ahmed Ali Shah**  
Group Service Manager, Friends Traders







- **Annex D:** Details of the Research Centre and incubation initiatives. (ORIC)

**Vision:**

AUBIC aspires to be among the leading Incubation centres by empowering start-ups to generate a positive, economic and social impact.

**Mission:**

Empowering start-ups through innovation, collaboration, and integrity to drive sustainable growth. Fostering a supportive ecosystem that promotes social responsibility and lifelong learning. Strengthen in Pakistan's entrepreneurial and landscape to create lasting economic and social impact.

**Programme:**

The incubation programs at AUBIC will be structured to cater for requirements of various growth stages to propel ventures of students and young entrepreneurs to next stages. The details are as follows:

**a. Incubation:**

Incubation stage mainly focuses on ideation stage, who has a potential innovative idea can be provided with a co-working space. During this period, the entrepreneur takes up the role of developing the idea into a proof of concept and prepares him for understanding the technical feasibility of the idea proposed AUBIC will be supporting the start-ups by mentoring or by creating right platform for networking. Once marketable technology/product ideas evolved, a company can be formed for induction to the Incubation Stage.

**b. Acceleration:**

This stage is where start-up companies draft/ handhold product development and prepare themselves for marketing. During this stage, the entrepreneur will put his efforts (such as technology team) to build a market viable prototype. AUBIC can also offer a wide array of value-added services like entrepreneur trainings and workshops, skill development programs, leadership programs and R&D facilities etc. to speed up the incubation cycle. The incubation stage enables the entrepreneur to be ready with an innovative technology in the form of marketable product that can primarily drive the market and helps to make pitch ready for investment.

**Link:**

[https://www.au.edu.pk/Pages/AUBIC/AUBIC\\_Intro.aspx](https://www.au.edu.pk/Pages/AUBIC/AUBIC_Intro.aspx)

[https://www.au.edu.pk/Pages/AUBIC/AUBIC\\_EVENTS.aspx](https://www.au.edu.pk/Pages/AUBIC/AUBIC_EVENTS.aspx)

[https://www.au.edu.pk/Pages/AUBIC/AUBIC\\_Success\\_Story.aspx](https://www.au.edu.pk/Pages/AUBIC/AUBIC_Success_Story.aspx)

## Evidence:




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