Air University Islamabad

Department with degree courses directly

related to environmental sustainability

Air University has strong ambitions to be a catalyst for sustainable development. We are actively involved in promoting sustainable development in collaboration with local, national, and international networks and organizations. Air University not only conducts extensive and diverse research and education related to sustainability issues, but we are also actively involved in promoting sustainable development in collaboration with local, national, and international networks and organizations.

Our school of management is offering two programmes, BS Tourism & Hospitality Management and BS HealthCare Management, to encourage sustainable practice, SDG 3 Good Health and Wellbeing Healthcare, and SDG 11 Sustainable Cities and Communities.

Rapid changes in the world because of global warming, as well as associated environmental and socioeconomic issues, create severe concerns for the welfare of current and future generations. We have introduced numerous courses in Environment, Sustainability, and Climate for our students to address such issues as climate change, sustainable development and planning, use and misuse of natural resources, environmental conditions, and the protection of human health, which are now high on the agenda of our curriculum.

All of these courses in each programme are offered at our main campus and sub campuses in Kamra and Multan, respectively. As a result of this programme, there is a larger, demand for environmentally conscious, competent, and suitably qualified employees and students.

The following is a list of the courses available.

SN	Course Code	Course Name	Sustainability
1.	CS 180	Introduction to Information and Communication Technologies	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills.
2.	CS 111	Programing Fundamentals	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
3.	CS 270	Professional Practices	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
4.	CS 214	Data Structures and Algorithm	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
5.	CS 223	Computer Organization and Assembly Language	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
6.	CS 225	Operating System	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
7.	CS 281	Mobile Computing	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
8.	CS 230	Database Systems	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
9.	CS 360	Computer Networks	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
10.	CS 332	Design and Analysis of Algorithm	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
11.	CS 382	Visual Programming	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
12.	CS 333	Theory of Automata	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.

13.		Artificial Intelligence	Incorporates themes relating to social sustainability and
	CS 340		focuses on skills development including problem solving and team working skills
14.	CS 371	Software Engineering	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
15.	CS 426	Parallel and Distributed Computing	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
16.	CS 415	Information Security	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
17.	CS 406	Data Science	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
18.	CS 402	Data warehousing and Data Mining	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
19.	CS 300	Full Stack Web Development	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
20.	CS 484	Cloud Computing	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
21.	CS 383	Multimedia Technologies	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
22.	CS 290	Internship-I	Course include expectations focusing on learning sustainability regarding social sustainability
23.	ME 100	Introduction to Mechanical Engineering	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
24.	ME 140	Workshop Practice-I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
25.	ME 139	Engineering Drawing and Graphics	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
26.	ME 222	Engineering Dynamics	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
27.	ME 233	Fluid Mechanics-II	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.

20		Manufacturing Drasass I	Incorporated themes relating to applied outsinghility and
28.	ME 248	Manufacturing Process-I	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
29.	ME 327	Machine Design-I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
30.	ME 312	Instrumentation and measurement	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
31.	ME 349	Computer Aided Engineering	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
32.	EE405	VLSI Design	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
33.	EE462	Computer Networks	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices.
34.	EE500	Final Year Project III	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
35.	EE402	Power Electronics II	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
36.	EE354	Control Systems	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
37.	EE498	Final Year Project I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
38.	EE341	Electrical Machines	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
39.	EE201	Network Analysis	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
40.	EE102	Electric Circuit Analysis	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
41.	CE101	Computer Organization Fundamentals	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
42.	CE202	Computer Architecture	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills

43.	CE311	Software Engineering	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
44.	CE498	Final Year Project II	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
45.	CE491	Entrepreneurship	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
46.	CE499	Final Year Project III	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
47.	CE402	Introduction to Robotics	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
48.	MT102	Workshop Practice	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
49.	MT396	Final Year Project I	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
50.	MT142	Electric Circuits Analysis	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
51.	MT252	Signals and System	Ensure Sustainability learning with useful alternations regarding suitable learning every year.
52.	MT396	Final Year Project I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
53.	MT373	Modeling and Simulation in Mechatronics	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
54.	BM121	Circuit Analysis	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
55.	BM113	Human Anatomy	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
56.	BM131L	Computer Aided Engineering Drawing	Incorporates themes relating to social sustainability and focuses on skills development including problem solving and team working skills
57.	IT495	Final Project II	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
58.	IT494	Final Year Project I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
59.	CY250	Secure Software Development	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices

60.	CY244	Ethical Hacking & Defense I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
61.	CY345	Ethical Hacking and Defense II	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
62.	CY494	Final Project I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
63.	CY351	Web Application Security	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
64.	CY495	Final Project-II	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
65.	MA498	Final Year Project I	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
66.	MA499	Final Year Project II	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
67.	PH201	Heat and Thermodynamics	Ensure Sustainability learning with useful alternations regarding suitable learning every year
68.	PH207	Physical Electronics	Ensure Sustainability learning with useful alternations regarding suitable learning every year
69.	PH205	Electrodynamics	Ensure Sustainability learning with useful alternations regarding suitable learning every year
70.	PH204	Optics	Incorporates themes relating to social sustainability and focuses on quality education, problem solving and reflective practices
71.	AM201	Introduction to Aviation	Ensure Sustainability learning with useful alternations regarding suitable learning every year
72.	AM203	Weather and Meteorology	Ensure Sustainability learning with useful alternations regarding suitable learning every year
73.	AM330	Aviation Marketing	Ensure Sustainability learning with useful alternations regarding suitable learning every year
74.	AM334	Aviation Economics	Ensure Sustainability learning with useful alternations regarding suitable learning every year
75.	AM323	Aviation Security Management	Ensure Sustainability learning with useful alternations regarding suitable learning every year
76.	AM445	Human Factors in Aviation	Ensure Sustainability learning with useful alternations regarding suitable learning every year
77.	AM453	Airline Finance	

78.	BA111	Financial Accounting I	Ensure Sustainability learning with useful alternations regarding suitable learning every year
79.	BA151	Principles of Management	Ensure Sustainability learning with useful alternations regarding suitable learning every year
80.	BA112	Financial Accounting II	Ensure Sustainability learning with useful alternations regarding suitable learning every year
81.	BA484	Financial Risk Management	Ensure Sustainability learning with useful alternations regarding suitable learning every year
82.	BA475	Project Management Information Systems	Ensure Sustainability learning with useful alternations regarding suitable learning every year Ensure Sustainability learning with useful alternations regarding suitable learning every year
83.	AF141	Principles of Accounting	Ensure Sustainability learning with useful alternations regarding suitable learning every year
84.	HC241	Principles of Health Care	Course include expectations focusing on sustainability and social responsibility.
85.	HC221	Health Care Policy & Management	Course include expectations focusing on sustainability and social responsibility.
86.	TH110	Public Relations	Course include expectations focusing on sustainability and social responsibility.
87.	TH241	Cultural Heritage of Pakistan	Course include expectations focusing on sustainability and social responsibility.
88.	TH212	Tourism & Hospitality Laws	Course include expectations focusing on sustainability and social responsibility regarding environment.
89.	PY220	Ethical Issues in Psychology	Course include expectations focusing on sustainability and social responsibility regarding Ethical issues
90.	PY360	Social Psychology	Course include expectations focusing on sustainability and social responsibility.
91.	PY380	Environmental Psychology	Course include expectations focusing on sustainability and social responsibility regarding environment.
92.	SE313	Software Construction and Development	Course include expectations focusing on learning sustainability regarding social and environmental sustainability
93.	SE211	Human Computer Interaction	Course include expectations focusing on learning sustainability
94.	GM231	3D Design and Modelling	Course include expectations focusing on learning sustainability
95.	Al130	Programming for Artificial Intelligence	Course include expectations focusing on learning sustainability
96.	IR100	Introduction to International Relations	Course include expectations focusing on learning sustainability
97.	IR101	International Relations since 1945	Course include expectations focusing on learning sustainability

98.	HU110	Pakistan Studies	Course include expectations focusing on learning sustainability regarding social sustainability
99.	HU126	Introduction to Environmental Studies	
100.	HU205	Business Communication	Course include expectations focusing on learning sustainability regarding social sustainability
101.	HU213	Introduction to Psychology	Course include expectations focusing on learning sustainability regarding social sustainability
102.	HU214	Introduction to Sociology	Course include expectations focusing on learning sustainability regarding social sustainability
103.	HU215	Ethics	Course include expectations focusing on learning sustainability regarding social sustainability
104.	HU217	Foreign Language: Arabic	Course include expectations focusing on learning sustainability
105.	HU218	Foreign Language: French	Course include expectations focusing on learning sustainability
106.	HU219	Foreign Language : Chinese	Course include expectations focusing on learning sustainability
107.	HU221	Introduction to Environmental Studies	Course include expectations focusing on learning sustainability regarding environment
108.	HU222	Introduction to International Relations	Course include expectations focusing on learning sustainability
109.	HU223	Human Rights and Citizenship	Course include expectations focusing on learning sustainability regarding social sustainability
110.	HU223	Introduction to Human Rights & Citizenship	Course include expectations focusing on learning sustainability
111.	HU304	Technical Report Writing	Course include expectations focusing on learning sustainability
112.	HU305	Technical Report Writing	Course include expectations focusing on learning sustainability
113.	HU307	Technical Report Writing	Course include expectations focusing on learning sustainability
114.	HU314	Contemporary International Relations	Course include expectations focusing on learning sustainability
115.	HU315	Ethics	Course include expectations focusing on learning sustainability
116.	HU316	International Relations	Course include expectations focusing on learning sustainability
117.	HU317	Interpersonal Skills/ Public Relations	Course include expectations focusing on learning sustainability regarding social sustainability
118.	HU318	Public Relations	Course include expectations focusing on learning sustainability regarding social sustainability

		Principles of Economics	Course include expectations focusing on learning
119.	HU319		sustainability
120.	HU324	Arabic	Course include expectations focusing on learning sustainability regarding social sustainability
121.	HU325	Islamic History and Culture	Course include expectations focusing on learning sustainability regarding social sustainability
122.	HU401	Technical & Business Writing	Course include expectations focusing on learning sustainability regarding social sustainability
123.	HU406	Community Service Learning	Course include expectations focusing on learning sustainability regarding social sustainability
124.	HU501	Academic Writing	Course include expectations focusing on learning sustainability
125.	HU607	Modern Literature	Course include expectations focusing on learning sustainability
126.	HU613	Language and Identity	Course include expectations focusing on learning sustainability
127.	HU614	Functional Linguistics	Course include expectations focusing on learning sustainability
128.	HU615	Pakistani English	Course include expectations focusing on learning sustainability
129.	PY220	Ethical Issues in Psychology	Course include expectations focusing on learning sustainability regarding social sustainability
130.	PY212	Theories of Personality	Course include expectations focusing on learning sustainability regarding social sustainability
131.	AF 102	Financial Accounting-I	Course include expectations focusing on learning sustainability
132.	IR 131	Introduction to Strategic Studies	Course include expectations focusing on learning sustainability regarding social sustainability
133.	IR 100	Introduction to International Relations	Course include expectations focusing on learning sustainability regarding social sustainability
134.	TU001	Advisory Class	Course include expectations focusing on learning sustainability regarding social sustainability
135.	IR 425	Religion and world politics	Course include expectations focusing on learning sustainability
136.	EL 105	Functional English	Course include expectations focusing on learning sustainability
137.	EL 106	Communications Skills	Course include expectations focusing on learning sustainability
138.	EL 203	Technical Writing and Presentation Skills	Course include expectations focusing on learning sustainability
139.	BA 157	Management information systems	Course include expectations focusing on learning sustainability

140.	MA 301	Probability and statistics	Course include expectations focusing on learning sustainability
141.	CY406	Information Security	Course include expectations focusing on learning sustainability
142.	CG213	Game Quality Assurance	Course include expectations focusing on learning sustainability
143.	CS111	Programming Fundamentals	Course include expectations focusing on learning sustainability
144.	BA101	Introductory Biology	Course include expectations focusing on learning sustainability regarding social sustainability
145.	BA106	Self-Development	Course include expectations focusing on learning sustainability regarding social sustainability
146.	CS438	Introduction to Artificial Intelligence	Course include expectations focusing on learning sustainability regarding social sustainability
147.	SE 600	Advanced Software Engineering	Course include expectations focusing on learning sustainability
148.		Research Methodology	Course include expectations focusing on learning sustainability
149.	PY 621	Psycho Diagnostics Assessment of Adults	Course include expectations focusing on learning sustainability regarding social sustainability
150.	PY 620	Psycho Diagnostics Assessment of Children	Course include expectations focusing on learning sustainability regarding social sustainability
151.	TH 242	Culture Tourism	Course include expectations focusing on learning sustainability regarding social sustainability
152.	TH 313	Tourisms Marketing	Course include expectations focusing on learning sustainability regarding social sustainability
153.	HC 352	Health Care Planning	Course include expectations focusing on learning sustainability regarding social sustainability
154.	HC 333	Health care Inventory management	Course include expectations focusing on learning sustainability regarding social sustainability
155.	HC 336	Health care Economics	Course include expectations focusing on learning sustainability
156.	PY425	Case Report and Practicum	Course include expectations focusing on learning sustainability
157.	PY 462	Peace Psychology	Course include expectations focusing on learning sustainability regarding social and environmental sustainability
158.	PY 415	Gender Issues in Psychology	Course include expectations focusing on learning sustainability regarding social sustainability
159.	CY334	Digital Forensics	Course include expectations focusing on learning sustainability

CY 335

Note: Above is a list of the courses that are offered in Curriculum of different programs which aims to embed sustainability into all course and module content offered by the Air University. The list also includes courses with sustainability already embedded, and those that include the Sustainability in Practice Certificate as part of the core curriculum. Total number of courses with sustainability embedded for courses running in 2023 is 160.