

**AROR UNIVERSITY OF ART, ARCHITECTURE, DESIGN AND
HERITAGE, SUKKUR, SINDH**
Department of Environmental Sciences

1. Course Scheme for BS Environmental Science

HEC, 2025 REVISED CURRICULUM OF ENVIRONMENTAL SCIENCES			
1st Year (1st Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV101	Introduction to Environmental Sciences	3 (3-0)
2	IDC102	Principles of Biology	3 (2-1)
3	MAT101	Quantitative Reasoning-I	3 (3-0)
4	GED108	Geography	3 (3-0)
5	GED102	Islamic Studies (Religious Edu / Ethics for non-Muslim students)	2 (2-0)
6	CSC102	Applications of Information & Communication Technologies	3 (2-1)
7	GED106	Understanding of Holy Quran – I	1 (0-1)
			Total = 18
1st Year (2nd Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV102	Fundamentals of Ecology	3 (3-0)
2	IDC103	Basic Chemistry	3 (2-1)
3	MAT112	Quantitative Reasoning-II	3 (3-0)
4	GED105	Psychology of Human Behavior	2(2-0)
5	GED106	Functional English	3 (3-0)
6	GED107	Pakistan Studies	2(2-0)
7	GED115	Photography and Film Making	2(2+0)
			Total = 18
2nd Year (3rd Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV201	Environmental Chemistry	3 (2-1)
2	ENV202	Environmental Physics	3 (2-1)
3	ENV203	Mineral Resources	3 (3-0)
4	IDC202	Introduction to Earth Sciences	2 (2-0)
5	ENG211	Expository Writing	3 (3-0)

6	GED204	Civics & Community Engagement	2(2-0)
7	GED205	Ideology & Constitution of Pakistan	2(2-0)
			Total = 18
2nd Year (4th Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV204	Environmental Toxicology	3 (2-1)
2	ENV205	Environmental Pollution	3 (3-0)
3	ENV206	Applied Ecology	3 (2-1)
4	ENV207	Environmental Microbiology	3 (3-0)
5	ENV208	Water & Wastewater Treatment	3 (3-0)
6	GED207	Understanding of Holy Quran – II	1(0-1)
7	GED401	Entrepreneurship	2(2-0)
			Total = 18
3rd Year (5th Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV301	Analytical Techniques in Environmental Science	3 (2-1)
2	ENV302	Research Methods in Environmental Science	3 (3-0)
3	ENV303	Geographical Information Systems & Remote Sensing	3 (2-1)
4	ENV304	Environmental Governance	2(2-0)
5	ENV305	Climate Change	2(2-0)
6	IDC302	Environmental Economics	2(2-0)
			Total = 15
3rd Year (6th Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV307	Disaster Risk Management	3 (3-0)
2	ENV308	Solid Waste Management	3 (3-0)
3	ENV309	Environmental Management Systems	3 (2-1)
4	ENV310	Renewable Energy	3 (3-0)
5	ENV311	Low Carbon Technologies	3 (3-0)
6		Internship	3-0
			Total = 18
4th Year (7th Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV401	Biodiversity & Conservation	3 (3-0)

2	ENV402	AI & Emerging Technologies in Environmental Science	3 (2-1)
3	ENV403	Climate Finance Mechanisms	3 (3-0)
4	ENV404	Human Health Risk Assessment	3 (3-0)
5	IDC402	Sustainable Development	3-0
			Total = 15
4th Year (8th Semester)			
S. No.	Course Code	Course Title	Credit Hours
1	ENV405	Ocean-Atmosphere Interactions	3 (3-0)
2	ENV406	Green Technologies	3 (3-0)
3	ENV407	Hydrological Modeling	3 (2-1)
4	ENV408	Health, Safety & Environmental Management	3 (3-0)
5	ENV410	Capstone Project	3 (3-0)
			Total = 15