

(Revised HEC curriculum-2013; opted as such for BS in Environmental Science)

**LIST OF COURSES WITH TITLES, CODES, AND CREDIT HOURS FOR BS (4-YEAR)
PROGRAM (MORNING & EVENING) IN ENVIRONMENTAL SCIENCE
APPROVED BY BOARD OF STUDIES MEETING IN
ENVIRONMENTAL SCIENCE HELD ON 07-02-2020**

...FIRST YEAR...

Semester – 1:

S.No	Course Titles	Course Code	Credit Hours
1	Introduction to Environmental Science	ESBS-101	3 (3+0)
2	Biology-I	ESBS-103	3 (2+1)
3	Basic Chemistry	ESBS-105	3 (2+1)
4	Mathematics	ESBS-107	3 (3+0)
5	English-I	ESBS-109	3 (3+0)
6	Pakistan Studies	ESBS-111	2 (2+0)
Semester Credit Hours			17

Semester – 2:

S.No	Course Titles	Course Code	Credit Hours
1	Introduction to Earth Science	ESBS-102	3 (2+1)
2	Biology-II	ESBS-104	3 (2+1)
3	Statistics	ESBS-106	3 (3+0)
4	Sociology/ <u>OR</u> Anthropology	ESBS-108 ESBS-114	3 (3+0) -do-
5	English-II	ESBS-110	3 (3+0)
6	Islamic Studies / <u>OR</u> Ethics	ESBS-112 ESBS-116	2 (2+0) -do-
Semester Credit Hours			17

...SECOND YEAR...**Semester – 3:**

S.No	Course Titles	Course Code	Credit Hours
1	Introduction to Computer	ESBS-201	3 (2+1)
2	Environmental Chemistry	ESBS-203	3 (3+0)
3	Environmental Physics	ESBS-205	3 (2+1)
4	Introductory Economics	ESBS-207	3 (3+0)
5	English-III	ESBS-209	3 (3+0)
6	Philosophy	ESBS-211	3 (3+0)
Semester Credit Hours			18

Semester – 4:

S.No	Course Titles	Course Code	Credit Hours
1	Fundamentals of Ecology	ESBS-202	3 (3+0)
2	Environmental Microbiology	ESBS-204	3 (2+1)
3	Environmental Pollution	ESBS-206	3 (3+0)
4	Climatology	ESBS-208	3 (3+0)
5	Psychology	ESBS-210	3 (3+0)
6	Hydrology	ESBS-214	3 (3+0)
Semester Credit Hours			18

...THIRD YEAR...**Semester – 5:**

S.No	Course Titles	Course Code	Credit Hours
1	Applied Ecology	ESBS-301	3 (3+0)
2	Environmental Toxicology	ESBS-303	3 (2+1)
3	Environmental Profile of Pakistan	ESBS-305	3 (3+0)
4	Analytical Techniques in Environmental Science	ESBS-307	3 (1+2)
5	Population and Environment	ESBS-309	3 (3+0)
6	Occupational Safety, Health & Environment	ESBS-311	3 (3+0)
Semester Credit Hours			18

Semester – 6:

S.No	Course Titles	Course Code	Credit Hours
1	Environmental Economics	ESBS-302	3 (3+0)
	GIS and Remote Sensing	ESBS-304	3 (2+1)
2	Environmental Management Systems	ESBS-306	3 (3+0)
3	Biodiversity and Conservation	ESBS-308	3 (2+1)
4	Environmental Monitoring	ESBS-310	3 (2+1)
5	Water Resources Management	ESBS-312	3 (2+1)
Semester Credit Hours			18

...FOURTH YEAR...**Semester – 7:**

S.No	Course Titles	Course Code	Credit Hours
1	Climate Change	ESBS-401	3 (3+0)
2	Environmental Impact Assessment	ESBS-403	3 (2+1)
3	Natural Resource Management	ESBS-405	3 (3+0)
4	Research Methods in Environmental Science	ESBS-407	3 (3+0)
5	Disaster Risk Management	ESBS-409	3 (3+0)
6	Energy and Environment	ESBS-411	3 (3+0)
Semester Credit Hours			18

Semester – 8:

S.No	Course Titles	Course Code	Credit Hours
1	Environmental Governance	ESBS-402	3 (3+0)
2	Public Health and Environment	ESBS-404	3 (3+0)
3	Pollution Control Technologies	ESBS-406	3 (2+1)
4	Solid Waste Management	ESBS-408	3 (3+0)
5	Final Year Project (Group wise)	ESBS-410	3 (3+0)
Semester Credit Hours			15

Total Degree Credit Hours: 139

Prof. Dr. Abdul Wahid
Founder CHAIRMAN