



Bahria University

## 16- Do you offer courses that teach specifically on climate science and/or environmental sustainability?

Yes, Bahria University offers programs that are aligned with officially recognized credit systems and lead to accredited qualifications. Relevant programs incorporate elements of environmental sustainability and climate-related studies, contributing to recognized academic credentials.

Two Degree program BS Environmental Sciences BS GIS (Remote Sensing), MS Environmental Science and PhD, MS Environmental Policy and Management.  
Road Map Add Course wise:

### Bahria University H-11 Islamabad Campus - Undergraduate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=50>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=53>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=52>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=182>

### Bahria University Karachi Campus - Undergraduate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=51>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=54>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=55>

### Bahria University H-11 Islamabad Campus - Graduate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=127>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=124>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=125>

### Bahria University Karachi Campus - Graduate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=126>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=128>

### Bahria University H-11 Islamabad Campus - Doctorate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=171>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=173>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=180>

### Bahria University Karachi Campus - Doctorate Programs

<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=172>  
<https://www.bahria.edu.pk/Home/AcademicRoadmapDetails?roadmapId=174>



Bahria University



IMMEDIATE -

**Bahria University**  
Discovering Knowledge

**BU-HO/DQA/2023/L/673**

**Dean MS**

BU-HO - BU Head Office

**Dean Health Sciences**

BU-HO - BU Head Office

**Dean H&SS**

BU-HO - BU Head Office

**Dean Professional Psychology**

BU-HO - BU Head Office

**Dean Law**

BU-HO - BU Head Office

**Dean ES**

BU-HO - BU Head Office

18 September 2023

**TEMPLATE FOR REVISED ROAD MAPS AT UG, MS/MPHIL/MBA AND PH.D PROGRAMS**

1. The Honorable Rector has given instructions for the adoption of the new HEC UG (Undergraduate Education) and GE (Graduate Education) Policies 2023 w.e.f. from Fall 2023. (copies of these policies are enclosed in Annex\_E Annex\_D )
2. The undersigned has prepared the standard template for all UG, MS/MPHIL/Ph.D. academic road maps to be followed for presenting your academic road maps in the forthcoming meeting of the Academic Council for approval/ratification.
3. All revised and new launch programs' academic road maps shall be prepared as per the attached standard templates Annex\_A, Annex\_B, and Annex\_C.
4. The following process may please be followed for revising existing road maps and defining new road maps:
  - Ensure maximum alignment of revised/new road maps with the new HEC UG and GE policies 2023 and accreditation bodies' standards.
  - Ensure discussion/deliberation in CAC, DBOS, and FBOS meetings and maintain a record of meetings in the shape of meeting minutes.
  - Ensure benchmarking with at least two highly reputed national and two highly reputed international universities' road maps.
  - Ensure maximum coverage of SDGs from 17 UN SDGs (<https://www.undp.org/sustainable-development-goals>) in the proposed curriculums.

**Fazal Wahab**  
Director QA



Bahria University

31/03/2026, 12:03

BU-HQ/DQA/2023/LR73 - TEMPLATE FOR REVISED ROAD MAPS AT UG, MS/MPhil/MBA AND PH.D PROGRAMS

Annexure:

- A. Academic\_Road\_Map\_Template\_\_MS\_and\_MPhil\_program.docx
- B. Academic\_Road\_Map\_Template\_\_Ph.D.\_\_program.docx
- C. Academic\_Road\_Map\_Template\_\_UG\_program.docx
- D. Graduate-Education-Policy\_2023.pdf
- E. HEC\_UGE-Policy\_2023.pdf

**Copy To:**

**Internal:**

- Rector - BU-HO
- Pro-Rector (Academics) - BU-HO
- Registrar - BU-HO
- Director Academics - BU-HO
- Controller of Exams - BU-HO

**External:**

- DG-KC - BUKC
- DG-BUHSC - BUHSC
- DG-IC - BUIC

**BU Head Office Shangrilla Road, Sector E-8, Islamabad**

UAN: 051-111-111-028 Ext: 1510 | Tel: 92-51-9263190 | Fax: 92-51-9262205 | Email: [dqa@bahria.edu.pk](mailto:dqa@bahria.edu.pk) | Web: [www.bahria.edu.pk](http://www.bahria.edu.pk)

It is computer-generated document and does not require any signature.



Bahria University

Faculty / Department	No. of Courses
Faculty of Engineering Sciences	4
Faculty of Engineering Sciences - Dept. of Earth & Environmental Sciences	95
Faculty of Management Sciences	19
Faculty of Management Sciences - Dept. of Maritime Sciences	5
Faculty of Humanities and Social Sciences	28
Faculty of Humanities and Social Sciences - Dept. of Media Studies	4
Faculty of Professional Psychology	1
Faculty of Law	4
<b>TOTAL</b>	<b>160</b>

#### Faculty of Engineering Sciences

##### Total Courses: 4

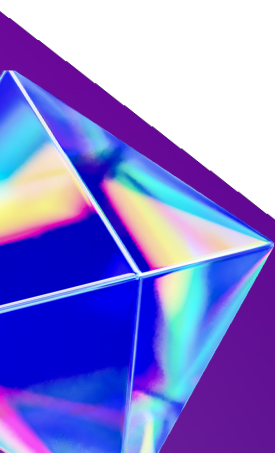
S.#	Course Code	Name of Subject	Credit Hours
1	RGS 105	Fundamentals to Earth Science	2
2	RGL 105	Fundamentals to Earth Science Lab	1
3	ENV 105	Introduction to Environmental Sciences	3
4	EEP 518	Sustainable Energy Systems	3



Faculty of Engineering Sciences - Department of Earth & Environmental Sciences  
Total Courses: 95

S.#	Course Code	Name of Subject	Credit Hours
1	ENV 730	Advanced Environmental Biotechnology	3
2	ENV 733	Advanced Environmental Chemistry	3
3	ENV 736	Advanced Environmental Geology	3
4	ENV 812	Advanced Environmental Legislation & Regulations	3
5	ENV 734	Advanced Environmental Microbiology	3
6	ENV 731	Advancement in Environmental Analytical Techniques	3
7	ENV 532	Advances in Environmental Sciences	3
8	ENV 336	Analytical Techniques in Environmental Sciences	2
9	ENL 336	Analytical Techniques in Environmental Sciences Lab	1
10	GEO 516	Applied Environmental Geophysics	3
11	ENV 583	Carbon Sequestration & Environment	3
12	ENV 523	Climate Change	3
13	ENV 572	Climate Change Adaptation & Mitigation	3
14	ENV 740	Climate Crisis Adaption and Mitigation	3
15	ENV 592	Coastal Environment & Management	3
16	GEO 335	Earthquake Seismology	3
17	ENV 703	Ecofriendly Energy Sources	3
18	ENV 708	Emerging Trends in Environmental Sociology	3
19	ENV 330	Environmental & Natural Resource Economics	3
20	ENV 595	Environmental Application of Nanomaterials	3
21	ENV 710	Environmental Auditing	3
22	ENV 110	Environmental Biology	3
23	ENV 320	Environmental Biotechnology	3
24	ENV 210	Environmental Chemistry	3
25	ENV 211	Environmental Chemistry	2
26	ENL 211	Environmental Chemistry Lab	1
27	ENV 809	Environmental Data Analysis	3
28	ENV 511	Environmental Economics	3
29	ENV 587	Environmental Education	3
30	ENV 537	Environmental Engineering	3
31	ENV 719	Environmental Epidemiology	3
32	GEO 305	Environmental Geology	3
33	GEO 327	Environmental Geophysics	3
34	GEO 716	Environmental Geophysics	3
35	ENV 360	Environmental Hazards & Management	3
36	ENV 803	Environmental Health Risk Assessment	3
37	ENV 412	Environmental Impact Assessment	3
38	ENV 704	Environmental Impact Assessment	3
39	GEO 621	Environmental Impact Assessment & Management	3
40	ENV 230	Environmental Issues	3
41	ENV 430	Environmental Laws & Policies	3
42	ENV 702	Environmental Management	3
43	ENV 315	Environmental Management System	3
44	ENV 220	Environmental Microbiology	3
45	ENV 221	Environmental Microbiology	3
46	ENL 221	Environmental Microbiology Lab	1
47	ENV 305	Environmental Monitoring	3
48	ENV 306	Environmental Monitoring	2
49	ENL 306	Environmental Monitoring Lab	1
50	ENV 808	Environmental Monitoring, Sampling and Analysis	3
51	ENV 505	Environmental Policies & Laws	3
52	ENV 705	Environmental Policies and Legal Framework	3
53	ENV 811	Environmental Pollution and Climate Change	3
54	ENV 715	Environmental Risk Assessment and Management	3

S.#	Campus	Department	Number of courses offered that teach specifically on climate science and /or Environmental sustainability	Evidence(List of Courses along with course codes)
1	BUKC	Earth & Environmental Sciences	12 (ACM 45 & 49)	<ol style="list-style-type: none"> <li>1. Introduction to Environmental Sciences (ENV 105)</li> <li>2. Introduction to Climate Change (ENV 236)</li> <li>3. Environmental Policies &amp; Law (ENV 430)</li> <li>4. Sustainable Development (ENV 413)</li> <li>5. Biodiversity &amp; Conservation (ENV 463)</li> <li>6. Environmental Governance (ENV 443)</li> <li>7. Social Theory of Environment (ENV 215)</li> <li>8. Remote Sensing and GIS Application in Environment (ENV 714)</li> <li>9. Climate Crisis Adaptation and Mitigation (ENV 740)</li> <li>10. Remote Sensing and GIS for Environment (ENV 350)</li> <li>11. Climate Change Adaptation and Mitigation (ENV 742)</li> <li>12. Environmental Policies and Legal Framework (ENV 705)</li> </ol>
		Humanities & Social Sciences	1	<ol style="list-style-type: none"> <li>1. Climate Change Politics Policy &amp; Practice (DST 336)</li> </ol>
		Management Studies	1	<ol style="list-style-type: none"> <li>1. Introduction to Environment and Sustainability (ENV 120)</li> </ol>
		Business Studies	1	<ol style="list-style-type: none"> <li>1. Introduction to Environment and Sustainability (ENV 120)</li> </ol>



S#	Campus	Department	Degree Program	Number of courses offered that teach specifically on Climate Science and/or Environmental Sustainability	Evidence (List of courses along with course code)
1	BUIC-H11 Campus	Earth & Environmental Sciences	BS Environmental Science	30	ENV 105- Introduction to Environmental Sciences
2					ENV 205- Fundamentals of Ecology
3					GEO 389- Introduction to Earth Sciences
4					ENV 211- Environmental Chemistry ENL 211- Environmental Chemistry Lab
5					ENV 204- Mineral Resources
6					ENV 217- Environmental Physics ENL 217- Environmental Physics Lab
7					ENV 363- Water & Wastewater Treatment
8					ENV 220- Environmental Microbiology
9					ENV 309- Applied Ecology ENL 309-Applied Ecology Lab
10					ENV 334- Environmental Economics
11					ENV 317- Environmental Pollution
12					ENV 523- Climate Change
13					ENV 336- Analytical Techniques in Environmental Sciences
14					ENV 420- Research Methods in Environmental Science
15					GEO 438- GIS & Remote Sensing GEL 438- GIS & Remote Sensing Lab
16					ENV 340- Solid Waste Management
17					ENV- 368 Disaster Risk Management
18					ENV 352- Environmental Sciences Field Work
19					ENV 316- Environmental Management Systems ENL 316- Environmental Management Systems Lab
20					ENV 507- Sustainable Development
21					GEO 385- Biodiversity & Conservation
22					ENV 427- Health, Safety & Environmental Management
31					ENV 443 Environmental Governance
23					ENV 361- Natural Resource Management
24	GEO 351- Natural Disaster				

					Management
25					ENV 325- Water Resources Management
26					ENV 524- Air & Noise Pollution
27					ENV 412 -Environmental Impact Assessment
28					ENV 405- Pollution Control Technology
29					ENV 430- Environmental Policies & Laws
30					ENV 441- Energy and Environment



Official Link : Offered courses given below:

<https://bahria.edu.pk/Home/AcademicRoadmap?programType=UnderGraduate>

<https://bahria.edu.pk/Home/AcademicRoadmap?programType=Graduate>

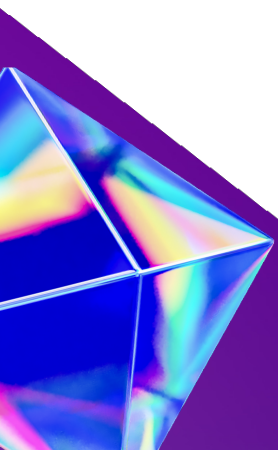
<https://bahria.edu.pk/Home/AcademicRoadmap?programType=Doctorate>

The screenshot shows the 'Islamabad H-11 Campus' section of the Bahria University website. It features a navigation bar with buttons for 'How to apply', 'BUET / Admission Test Subjects', 'Test Exemption', 'Fee Structure Undergraduate', and 'BUET Sample/Mock papers'. Below this, there are expandable sections for 'Computer Engineering', 'Computer Science', and 'Earth & Environmental Sciences'. The 'Earth & Environmental Sciences' section is expanded to show a table of programs.

Program Title	Duration	Credit Hours
BS Environmental Science	4 Years	138
BS Geology	4 Years	141
BS Geophysics	4 Years	141
BS Remote Sensing & GIS	4 Years	137

The screenshot shows the 'Islamabad E-8 Campus' section of the Bahria University website. It features a navigation bar with buttons for 'How to apply', 'BUET / Admission Test Subjects', 'Test Exemption', and 'Fee Structure PhD'. Below this, there are expandable sections for 'Islamabad H-11 Campus', 'Karachi Campus', and 'Computer Science'. The 'Karachi Campus' section is expanded to show a table of programs.

Program Title	Duration	Credit Hours
PhD (Environmental Sciences)	3 years	54
PhD Geophysics	3 years	54



# Contact Us



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