



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



NAAC Criterion-I

Key Indicator – 1.2.2

**Structure of the program clearly indicting
the course as approved by competent
Board of studies**

1.2.2 Evidences



**Central University of Himachal Pradesh, Dharamshala,
Kangra**

Structure of the M.Sc. Environmental Science Program

clearly indicating the courses, credits/Electives as approved by the BoS of Dept. Env. Sc.

S.No.	Academic Session	Page No.
1.	2016-17	2
2.	2017-18	3
3.	2019-20	4
4.	2020-21	5
5.	2021-22	6

TABLE-I: Revised Curricular Framework" for M.Sc. in Environmental Sciences based on Choice Based Credit System (CBCS) (Year 2016)

Semester	Credits	Core- Compulsory	Credits	Credits	Core- Open	Credits	
I	16	ENV 402a - Introduction to Earth Processes	2				
		ENV 403 - Environmental Chemistry	4				
		ENV 434 - Fundamentals of Ecology and Environment	4				
		ENV 516 - Atmospheric Science	2				
		ENV 435 - Environmental Sciences Laboratory - I	2				
		ENV 404 - Energy and Environment	2				
II	12	ENV 408 - Biodiversity and Wild Life Management	2	4	ENV 523 - Toxic and Hazardous Waste Management	4	
		ENV 432 - Introduction to Statistical Techniques	4		ENV 569 - Environmental Pollution and Health issues	4	
		ENV 424 - Fundamentals of Remote Sensing	2		ENV 535 - Natural Hazards	2	
		ENV 422 - Basics of Natural Resource Conservation	2		ENV 525 - Environmental Geochemistry	2	
		ENV 436 - Environmental Sciences Laboratory - II	2		ENV 553 - Environmental Thermodynamics	2	
					ENV 503 - Environmental Legislation: National & International	2	
III	4	ENV 524 - Environmental Impact Assessment	2	4	ENV 508 - Environmental Ethics	2	
		ENV 571 - Remote Sensing and GIS Lab	2		ENV 572 - Land Use Planning	2	
					ENV 573 - Water Resource Management	2	
					ENV 546 Renewable and Non renewable Energy potential in HP State	2	
					ENV 557 - Bio-resources and Environmental Biotechnology	4	
IV	8	ENV 575 - M.Sc. Dissertation	6	4	ENV 537 - Environmental Engineering	2	
		ENV 412- Analytical Technique	2		ENV 421 - Municipal Solid Waste Management	2	
					ENV 428 - Himalayan Geology	2	
					ENV 574 - Bio Analytical Techniques	4	
					ENV 561 - Science of Climate Change	2	
Semester	Credits	Elective (Specialization)	Credits	Semester	Credits	Elective (Specialization)	Credits
III	8	ENV 559 - Environmental Geophysics	2	IV	8	ENV 521 - Geo Engineering	2
		ENV 411 - Waste Management	2			ENV 577 - Carbon Management	2
		ENV 550 - Microbial Ecology	2			ENV 409 - Environmental Microbiology	2
		ENV 611 - Atmospheric Chemistry	2			ENV 613 - Atmospheric Physics	2
		ENV 410 - Environmental Biotechnology	2			ENV 579 - Recent Trends in Environmental Biotechnology	2
		ENV 578- Introduction to Glaciology	2			ENV 580 - Recent Trends in Glaciology	2
		ENV 530 Green Chemistry and Environment	2			ENV 555 Emerging Ethical Issues for Nanotechnology in Environment	2

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2017-18

Modified Curricular Framework* for M.Sc. in Environmental Sciences based on Choice Based Credit System (CBCS) (wef-20.06.18): (ANNEXURE-I)

Credits	Core- Compulsory	Credits	Credits	Core- Open and Elective-Open	Credits		
I	16	ENV 402a – Introduction to Earth Processes	2				
		ENV 403 - Environmental Chemistry	4				
		ENV 434 - Fundamentals of Ecology and Environment	4				
		ENV 516 - Atmospheric Science	2				
		ENV 435 - Environmental Sciences Laboratory – I	2				
		ENV 404 - Energy and Environment	2				
II	12	ENV 408 - Biodiversity and Wild Life Management	2	4	ENV 523 - Toxic and Hazardous Waste Management	4	
		ENV 432 - Introduction to Statistical Techniques	4		ENV 569 - Environmental Pollution and Health issues	4	
		ENV 424 – Fundamentals of Remote Sensing	2		ENV 535 - Natural Hazards	2	
		ENV 422- Basics of Natural Resource Conservation	2		ENV 553 - Environmental Thermodynamics	2	
		ENV 436 - Environmental Sciences Laboratory – II	2		ENV 503 – Environmental Legislation: National & International	2	
		ENV 524 - Environmental Impact Assessment	2		ENV 508 – Environmental Ethics	2	
III	4	ENV 571 - Remote Sensing and GIS Lab	2	4+4	ENV 552 – Contemporary Environmental Issues	2	
					ENV 573 – Water Resource Management	2	
					ENV 537 – Environmental Engineering	2	
					ENV 536 – Disaster Management	2	
					ENV 581 - Methods in Scientific Research	4	
					ENV 421 – Municipal Solid Waste Management	2	
IV	8	ENV 575 – M.Sc. Dissertation	6	4+4	ENV 428 – Himalayan Geology	2	
		ENV 412- Analytical Technique	2		ENV 574 - Bio Analytical Techniques	4	
					ENV 561 – Science of Climate Change	2	
					ENV 546 - Renewable and Non renewable Energy potential in HP State	2	
Semester	Credits	Elective (Specialization)	Credits	Semester	Credits	Elective (Specialization)	Credits
III	8	ENV 559 - Environmental Geophysics	2	IV	8	ENV 521 – Geo Engineering	2
		ENV 614 - Advanced Waste Management Techniques	2			ENV 577 - Carbon Management	2
		ENV 550 – Microbial Ecology	2			ENV 616 – Advanced Microbial Technologies	2
		ENV 611 – Atmospheric Chemistry	2			ENV 613 – Atmospheric Physics	2
		ENV 615 – Advanced Bioremediation Techniques	2			ENV 579 - Recent Trends in Environmental Biotechnology	2
		ENV 578- Introduction to Glaciology	2			ENV 580 - Recent Trends in Glaciology	2
		ENV 530 Green Chemistry and Environment	2			ENV 555 - Emerging Ethical Issues for Nanotechnology in Environment	2

** New courses to be introduced; course codes will be allotted accordingly

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20/6/18


 Dean, School of Earth & Environmental Sciences
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2019-20

(Year-2016)

TABLE-I: Curricular Framework for Department of Environmental Sciences based on Choice Based Credit System (CBCS)

Semester	Credits	Core- Compulsory	Credits	Faculty	Credits	Core-Open/Elective-Open	Credits	Faculty
I	16	ENV 402a - Introduction to Earth Processes	2	AL				
		ENV 403 - Environmental Chemistry	4	DBS+SC				
		ENV 434 - Fundamentals of Ecology and Environment	4	MA				
		ENV 560 - Meteorology & Climatology	4	AT				
		ENV 435 - Environmental Sciences Laboratory - I	2	All			2	AL
II	12	ENV 408 - Biodiversity and Wild Life Management	2	MA	4	ENV 404 - Energy and Environment	2	AL
		ENV 411 - Waste Management	2	SC		ENV 535 - Natural Hazards	2	DBS
		ENV 432 - Introduction to Statistical Techniques	4	AT		ENV 422- Basics of Natural Resource Conservation		
		ENV 501 - Environmental Pollution and Human Health	2	SC				
		ENV 436 - Environmental Sciences Laboratory - II	2	All				
III	6	ENV 424 - Fundamentals of Remote Sensing	2	AL	4+2	ENV 573 - Water Resource Management	2	AL
		ENV 524 - Environmental Impact Assessment	2	DBS		ENV 412- Analytical Technique	2	DBS
		ENV 571 - Remote Sensing and GIS Lab	2	AL		ENV 503-Environmental Legislations: National and International	2	SC
IV	6	ENV 575 - M.Sc. Dissertation	6	All	4+2	ENV 547- Contemporary Environmental Issues	2	AT
						ENV 537 - Environmental Engineering	2	AKM
III	8	ENV 564 - Near Surface Geophysics	4	AKM	IV	ENV 536- Disaster Management	2	AL
		ENV 557- Bio-resources and Environmental Biotechnology	4	SC		ENV 583 - Soil Science	2	AKM
		ENV 582* - Atmospheric Chemistry and Physics	4	AT		ENV 428 - Himalayan Geology	2	AKM
Semester	Credits	Human Making and Skill Development Courses			II	ENV 585* - Fundamentals of Basics & Applied Environmental Microbiology	4	MA
		ENV 443 - Basics of Climate Change (HM)	2	AT		ENV 509 - Glaciology	4	AL
		ENV 553 - Environmental Thermodynamics (SD)	2	DBS		ENV 586* - Nano-Techniques and Applications in Environment	4	DBS
Semester	Credits	Human Making and Skill Development Courses			II	ENV 508 - Environmental Ethics	2	SC
		ENV 441 - Water Resource Conservation in Hilly Region	2	AL		ENV 441 - Water Resource Conservation in Hilly Region	2	AL

Approved in the 8th meeting of BoS.
N. Mandal
01/06/2019

(Signatures)

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2020-2021

TABLE-I: Curricular Framework for Department of Environmental Sciences based on Choice Based Credit System (CBCS) (Year 2020)

Semester	Credits	Core- Compulsory	Credits	Faculty	Credits	Core-Open/Elective-Open	Credits	Faculty	
	16	ENV 401 – Introduction to Ecology	2	PT*					
		ENV 402a - Introduction to Earth Processes	2	AL					
		ENV 403 - Environmental Chemistry	4	DBS					
		ENV 501 - Environmental Pollution and Human Health	2	SC					
		ENV 560 – Meteorology and Climatology	4	AT					
		ENV 444** - Environmental Geo Science Laboratory	2	AKM					
I	12	ENV 411 - Waste Management	2	SC	4	ENV 428- Himlayan Geology	2	AKM	
		ENV 422 - Basics of Natural Resource Conservation	2	DBS		ENV 404 - Energy and Environment	2	AL	
		ENV 424 - Fundamentals of Remote Sensing	2	AL		ENV 408 - Biodiversity and Wild Life Management	2	SC	
		ENV 432 – Introduction to Statistical Techniques	4	AT					
		ENV 445** Environmental Chemistry Laboratory	2	PT*					
II	6	ENV 524 - Environmental Impact Assessment	2	DBS	4+2	ENV 412- Analytical Technique	2	SC	
		ENV 536- Disaster Management	2	AKM		ENV 503-Environmental Legislations: National and International	2	DBS	
		ENV 551 - Remote Sensing and GIS Lab	2	AL		ENV 573 - Water Resource Management	2	AL	
V	6	ENV 575 - M.Sc. Dissertation	6	All	4+2	ENV 537 – Environmental Engineering	2	AT	
						ENV 547- Contemporary Environmental Issues	2	SC	
						ENV 583 - Soil Science	2	PT*	
Semester	Credits	Elective (Specialization)	Credits	Faculty	Semester	Credits	Elective (Specialization)	Credits	Faculty
II	8	ENV 587*-Regional (Indian) Environmental Policies	4	PT	IV	8	ENV 564 - Near Surface Geophysics	4	AKM
		ENV 582* - Atmospheric Chemistry and Physics	4	AT			ENV 509 - Glaciology	4	AL
		ENV 555- Bio-resources and Environmental Biotechnology	4	SC			ENV 586* - Nano-Techniques and Applications in Environment	4	DBS
Semester	Credits	Human Making and Skill Development Courses	Credits	Faculty	Semester	Credits	Human Making and Skill Development Courses	Credits	Faculty
		ENV 508 - Environmental Ethics (HM)	2	SC	II		ENV 443 - Basics of Climate Change (HM)	2	AT
		ENV 441 - Water Resource Conservation in Hilly Region (SD)	2	AL			ENV 553 - Environmental Thermodynamics (SD)	2	DBS

* Course to be introduced; [Credit distribution: AT-22; AL-22; SC-22; DBS-22; PT-16; AKM-14]

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