

Course Title:				<u>Environmental Science & Education</u>					
Course Code:				<u>BTL VA102</u>					
Course Coordinator				<u>VINOD SINGH</u>					
Credits				<u>2-0-0</u>					
Evaluation Scheme Total 100 Marks									
Quiz (Total 20 Marks)				Assignment/Project (Total 20 marks) (Minimum Two Assignments or one Project)		Mid-Term	Major Examination	Total	
Quiz I (5 marks)	Quiz II (5 marks)	Quiz III (5 marks)	Quiz IV (5 marks)			20 marks) (1 ½ Hour Duration)	(40 marks) (3 Hour Duration)	100 Marks	
WEEKS				TOPICS TO BE COVERED					
Week 1				Environment: concept, importance and components					
Week 2				Ecosystem: Concept, structure and function (food chain, food web, ecological pyramids and energy flow)					
Week 3				Ecosystem: Concept, structure and function (food chain, food web, ecological pyramids and energy flow)					
Week 4				Ecosystem services: (Provisioning, regulating and cultural)					
Week 5				Biodiversity: levels, values and threats and conservation					
Week 6				Biodiversity: levels, values and threats and conservation					
Week 7				Concept and objectives of environmental education, environmental ethics					
Week 8				Natural resources: Renewable and non-renewable (Global status, distribution and production)					
Week 9				Natural resources: Renewable and non-renewable (Global status, distribution and production)					
Week 10				Management of natural resources: Individual, community and government managed					
Week 11 (17th -21st March, 2025)				Mid-Term					
2nd May, 2025				Showing of Mid-Term Answer Sheets					
Week 12				Air, water and soil pollution: Causes, consequences and control					
Week 13				Air, water and soil pollution: Causes, consequences and control					

Week 14	Air, water and soil pollution: Causes, consequences and control
Week 15	Solid waste management: Collection, segregation, transportation and disposal; 3R's
Week 16	Climate change: Causes and consequences
Week 17 (5 th -9 th May, 2025)	Revision Week
Week 18 (13 th – 22 nd May, 2025)	Major Examinations
29 th May, 2025	Showing of Major Exams Answer Sheets

Course Outcomes: After successful completion of this course, students will be able to

CO1: Understand the basics of environmental sciences

CO2: Understand the concerns related to sustainable development on environment and health.

Recommended Books:

1. Asthana, D. K. Text Book of Environmental Studies. S. Chand Publishing.
2. Basu, M., Xavier, S. Fundamentals of Environmental Studies, Cambridge University Press, India.
3. Basu, R., (Ed.) Environment. University of Calcutta, Kolkata.
4. Bharucha, E. Textbook of Environmental Studies for Undergraduate Courses. Universities Press.
5. Miller T. Cr. Jr., Environmental Science, Wadsworth Publishing Co.
6. Wagner K.D. Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p.
7. Mckinnecv, M.L. & Schoch. R.M. Environmental Science systems & Solutions. Web enhanced edition. 639p.

Calendar of Quizzes/Assignment.

Component	Date
Quiz-I	27 th -31 st , January 2025
Quiz-II	24 th -28 th February, 2025
Assignment-I	10 th -12 th February, 2025
Mid-Term	17-21 st March, 2025
Assignment-II/Project Submission	21 st – 24 th April, 2025
Quiz-III	7 th – 11 th April, 2025
Quiz-IV	28 th April-2nd, May, 2025
Major Exam	13 th – 22 nd May, 2025

Note: One surprise Quiz may be fixed out of Quiz-II, Quiz-III or Quiz-IV.

Signature of Course Coordinator: