



Centre for Environmental Science and Technology
Central University of Punjab, Bathinda

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This is to certify that **Dr. Renuka Gupta**, presently working as Associate Professor at Department of Environmental Science and Engineering, J.C. Bose University of Science and Technology YMCA Faridabad, has contributed as content writer for the following eight modules under subject "**Environmental Sciences**" in UGC e-PG Pathshala scheme, Ministry of Human Resource Development, GOI. Central University of Punjab, Bathinda was anchor Institute for this courseware development.

The details of her contribution are given below:

Paper No. and Name	As Module Content Writer
1. Ecosystem Structure and Function (Paper Coordinator: Dr. Renuka Gupta)	I. Ecosystem: Concept, Structure and Function – Part 1 (EVS/ESF-I/1) II. Ecosystem: Concept, Structure and Function – Part 2 (EVS/ESF-I/2) III. Ecosystem: Concept, Structure and Function – Part 3 (EVS/ESF-I/3) IV. Food Chain and Food Webs (EVS/ESF-I/5) V. Ecological Pyramids (EVS/ESF-I/6) VI. Energy Flow in ecosystem – Energy Flow Models (EVS/ESF-I/7) VII. Ecological Succession –I (EVS/ESF-I/19) VIII. Ecological Succession –II (EVS/ESF-I/20)

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V.K. Garg
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