

MAHATMA GANDHI UNIVERSITY

Fifth Semester B.Sc. Geology (Model I)
Fifth Semester B.Sc. Geology and Water Management (UGC Vocational-Model III)

SYLLABUS OF CORE COURSE-Theory (Common Syllabus to both Programs)

Semester	Hours/Week	Hours/ Semester	Exam	Mark			Credits
				Internal	External	Total	
V	4 Hours	72 Hours	3 Hours	15	60	75	4

GL5CRT08: ENVIRONMENTAL GEOLOGY

UNIT I: Environmental Geosciences – Concept, definition, scope and importance. Role of Geology in environmental studies. The physical environment- Atmosphere, hydrosphere, lithosphere and biosphere. Anthropogenic environment.

(14hrs)

UNIT II: Natural Resources - Renewable and non-renewable. Conservation and preservation of non-renewable resources. Environmental Hotspots. Global warming - Greenhouse effect and ozone depletion.

(14 hrs)

UNIT III: Environmental pollution – water and air pollution - causes and effect. Heavy metal pollution in ground water. Health hazards due to groundwater pollution. Solid waste management. Concept of sustainable development. Environmental laws.

(12 hrs)

UNIT IV: Environmental Consequences of natural hazards - Earthquake, Flood, Tsunami, Landslide and Draught. Impact of mining on environment. Brief description of Environmental Impact Assessment–EIA.

(14 hrs)

UNIT V: Human Rights – An Introduction to Human Rights, meaning, concept and development. History of Human Rights- Different generations of Human Rights- Universality of Human Rights- Basic International Human Rights documents-UDHR, ICCPR, ICESCR – value dimensions of Human Rights

Human Rights and United Nations - Human Rights co-ordination with UN system- Role of UN secretariat- The Economic and Social Council – The Commission of Human Rights- The Security

Council and Human Rights -The committee on the elimination of the Racial discrimination - The Committee on the elimination of discrimination against Women- The committee on Economic, Social and Cultural Rights - The Human Rights Committee – Critical Appraisal of UN Human Rights Regime.

Human Rights National Perspective – Human Rights in Indian Constitution – Fundamental Rights- The Constitutional context of Human Rights- Directive principles of state policy and Human Rights – Human Rights of women – children- minorities- prisoners-Science Technology and Human Rights – National Human Right Commission – State Human Right Commission – Human Right awareness in education.

(18 hrs)

LIST OF REFERENCES

1. Valdia K.S (1987) Environmental Geology – Indian Context –Tata Mc Graw Hill
2. Geomorphology and Environmental Geo science. Willey international
3. Donald R Coates, 1981, Environmental Geology, John Wiley and sons
4. Peter T Elawan,1970. Environmental Geology, Harper & Raw
5. Keller E.A (1978) environmental Geology –Bell &Howell USA
6. Bryante (1985) Natural Hazards Cambridge University Press.
7. Basic Documents in Human Rights – Ian Brownlie
8. Universal Human Rights in Theory and Practice - Jack Donnelly
9. Future of Human Rights – Upendra Baxi
10. Understanding Human Rights An Overview- OP Dhiman
11. Reforming Human Rights- D P Khanna
12. Human Rights in India Historical Social and political Perspectives – Chiranjivi J Nirmal
13. Human Rights in Postcolonial India – Edited by Om Prakash Dwivedi and V G Julie Rajan
