

Course: Ecology and Environment

Course Code: noc20-ge16

Session: 2020-21

Duration: 9 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1: Dr. B.S. Murty -Introduction (1) Sustainability Definition / Goals, Climate Change (2) Case Studies (3) (Eg: Dams, Chemicals, e-waste, IOT, Landfill siting etc)

Week 2: Dr. Sudhir Chella Rajan-Sustainability and Economics (3) Sustainability and Ethics (3)

Week 3: Dr. Ligy Philip-(Water Quality/ Waste Management), Water Quality and Treatment (3), Waste Management and Treatment (3)

Week 4: Dr. B. S. Murty (Water Management/ Resources), Urban Drainage, Water Resource Management, Impact of Climate Change

Week 5: Dr. Srinivas Jayanti (Energy)-Energy Demand / Resources (1), Pollution from Energy generation (1), Energy and Climate Change (Global Warming) (1) Energy and Sustainability (1) Long Range and Short-Range Solutions (1) (Global vs. India)

Week 6: Dr. R. Ravi Krishna-Risk Assessment Definition (1), Pollutant Pathways / Safety/ Exposure (1), Liability /Examples (1), Life Cycle Assessment (2) Environmental Management and LCA (1)

Week 7: Dr. Sudhir Chella Rajan-Urban Planning / Sprawl (1), Challenges in Urban Planning, Transport (1) Energy (Smart Grid) (1) Waste (1) Governance (1)

Week 8: Dr. Susy Varughese / Dr. Parag Ravindran-Ecology – definitions / Systems (1), Biodiversity (1), Examples of Historical Impact of economy on Ecology, Restoration / Ecological Engineering

Week 9: Dr. Ligy Philip / Dr. Ravi Krishna -Solid Waste Management, Hazardous Waste Management

List of students enrolled

S. No	Name of Student
1	Vishnu Gupta
2	Ayush Khandelwal
3	Ayushi Bisht
4	Chitwan Agarwal
5	Nishkarsh Goyal

6	Neha Kumawat
7	Riya Agarwal
8	Surya Pratap Singh
9	Sachin Yadav
10	Tanish Khandal