

K.L.E.Society's
Basavaprabhu Kore Arts, Science and Commerce College, Chikkodi – 591201
Department of Zoology
Syllabus distribution Short Term Course (2018 – 19) : ENVIRONMENT

Short Term Course Syllabus

Unit	Syllabus	Hours	Staff
1	Introduction: Concept of environment, biosphere, ecosystem, food chain, food web, trophic level, ecological pyramids, biodiversity, conservation, water resources, pollution, sewage, mining, desertification, deforestation, sustainable development. Components of ecosystem.	3	TPK
2	Issues: The challenges we face, forest clearance, population explosion, types of pollution, global atmospheric changes, hazardous wastes and incineration, urban problems related to energy, water conservation, watershed management, resettlement and rehabilitation of people, climate change, global warming, acid rains, ozone level depletion, nuclear accidents, environment clearance and development issue	5	NRB
3	Renewable energy: Solar, Hydro, tidal, wind, biomass, Waste-to-Power, biofuel. Non-renewable energy resources: Fossil fuel including coal, petroleum, oil and natural gas	3	TPK
4	Impact of: (a) mining (b) deforestation (c) industrial effluents (d) hydroelectric projects (e) air, land and sound pollution (f) pesticides (g) excess use of inorganic fertilizers	3	TPK
5	People participation in 'save environment': (1) Bishnoi Movement (2) Chipko Movement (3) Save Silent Valley (4) Appiko Movement (5) Narmada Bachao Andholan (6) Tehri Dam Conflict (7) Jungle Bachao Andholan (8) Pluck and Plant movement (9) Navdanya Movement (10) Save Western Ghats (11) Campaign against iron ore mining and for mine workers' rights (12) Anti-uranium mining campaign (12) Anti-thermal power plant and coal mining campaigns (13) Rights of stone and quarry workers (14) Campaign against bauxite mining (15) Campaign against copper smelting plant	7	NRB
6	Environmental Impact Assessment (EIA): EIA Process, Role of the State Pollution Control Boards, Role of the Ministry of Environment and Forests, National Environment Appellate Authority, Role of NEERI. Case studies of EIA	3	TPK
7	Case studies: Bhopal gas tragedy, Bathing of animals, people and water quality, Chernobyl Nuclear Accident, Fukushima nuclear disaster, Gulf of Mexico Oil Spill, Spoils of War, Leaded gasoline, Toxic pesticide, Indoor Air Pollution, The Pacific Garbage Patch	3	NRB
8	Environment management, Ecotourism, Alternate energy initiatives, Management of waste (solid, liquid and e-waste), rain water harvesting, green practices and Environment Protection Act	3	TPK

Total hours

30

NRB = Dr N R Birasal, TPK = Miss T P Khidrapure

HEAD
DEPARTMENT OF ZOOLOGY