SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY,

GHATAKESAR, HYDERABAD

DEPARTMENT OF ELECTRICAL ENGINEERING

ENVIRONMENTAL SCIENCE

UNIT-I

LECTURE PLAN:

S.No	Topics to be covered	Number of lectures
1.	Ecosystem definition, scope & importance of ecosystem	1
2.	Concept of ecosystem, classification of ecosystem, structure and components of an ecosystem	2
3.	Functions of an ecosystem, Food chain, Food web	2
4.	Flow of energy	2
5.	Bio geo chemical cycles	2
6.	Bio accumulation, bio magnification	1
7.	Ecosystem values, services & carrying capacity	1

UNIT - II

1. **LECTURE PLAN:**

S.No.	Topics to be covered	Number of lectures
1.	Classification of resources, water resources & surface ground water utilities & over utilization, floods & droughts, Dams benefits & problems	3
2.	Forest resources	1
3.	Mineral resources & uses, impacts of mining	2
4.	Energy resources, types & non renewable &renewable resources land resources	1
5.	Land uses, land degradation	2

$\underline{UNIT-III}$

LECTURE PLAN:

S.No.	Topics to be covered	Number of lectures
1.	Levels of biodiversity, value of biodiversity	2
2.	Hot spots, Threats to biodiversity	2
3.	Conservation of biodiversity	2
4.	india as a mega diversity nation	1

$\underline{UNIT-IV}$

LECTURE PLAN:

S.No.	Topics to be covered	Number of lectures
1.	Air pollution sources, effects & control. Ambient air quality standards	1
2.	Water pollution sources, effects & control. Drinking water quality standards	1
3.	Soil pollution & noise pollution	1
4.	solid waste management types process, disposal methods	2
5.	Climate change, ozone layer depletion, human environment	1
6.	Deforestation, desertification international protocols	1

UNIT- V:

LECTURE PLAN:

S.No. Topics to be covered lectures	S.No.	Topics to be covered	Number of lectures
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1.	Environmental protection acts air, water, forest acts	2
2.	Municipal solid waste management handling rules	2
3.	EIA & EMP	2
4.	Sustainable development, population explosion	1
5.	Environmental education, human health, environmental ethics	1
6.	Concept of green building, ecological footprint,	1