

Academic Lesson Plan of Winter 2024		
Discipline: Information Technology	Semester : 3RD	Name of the Teaching faculty: Archana Tripathy
Subject : ENVIRONMENTAL STUDIES (Th.5)	No. of Days/per week class allotted : 04	Semester from date : 1/07/2024 to 08/11/2024
	Class Day	No. of weeks : 16
JULY 1ST WEEK	Theory / Practical Topics	
	02-07-2024	Introduction to environmental studies, The Multidisciplinary nature of environmental studies, Definition,
	03-07-2024	scope and importance, Need for public awareness
	05-07-2024	Natural Resources, Renewable and non renewable resources, Natural resources and associated problems,
JULY 2ND WEEK	06-07-2024	deforestation, case studies,
	09-07-2024	Timber extraction mining,
	10-07-2024	dams and their effects on forests and tribal people
	12-07-2024	Water resources: Use and over-utilization of surface and ground water, floods,
JULY 3RD WEEK	13-07-2024	drought, conflicts over water, dam's benefits and problems
	16-07-2024	Mineral Resources: Use and exploitation,
	17-07-2024	HOLIDAY
	19-07-2024	environmental effects of extracting and using mineral resources
JULY 4TH WEEK	20-07-2024	Food Resources: World food problems, changes caused by agriculture and over grazing,
	23-07-2024	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity
	24-07-2024	Land Resources: Land as a resource, land degradation,
	26-07-2024	man induces landslides, soil erosion, and desertification
JULY 5TH WEEK	27-07-2024	Role of individual in conservation of natural resources, Equitable use of resources for sustainable life styles.
	30-07-2024	Revision CH-1&2
AUGUST 1ST WEEK	31-07-2024	Systems, Concept of an eco system, Structure and function of an eco system.,
	02-08-2024	Producers, consumers, decomposers.
	03-08-2024	Energy flow in the eco systems., Ecological succession,
	06-08-2024	Food chains, food webs and ecological pyramids.
AUGUST 2ND WEEK	07-08-2024	Introduction types characteristise features, structure and function of the following eco system
	09-08-2024	Forest ecosystem, Desert ecosystem
	10-08-2024	Aquatic eco systems (ponds, streams, lakes)
	13-08-2024	Aquatic eco systems (rivers, oceans, estuaries).
AUGUST 3RD WEEK	14-08-2024	Revision CH-3
	15-08-2024	HOLIDAY
	16-08-2024	Biodiversity and it's Conservation, Introduction-Definition: genetics,
	17-08-2024	continue
AUGUST 4TH WEEK	20-08-2024	species and ecosystem diversity,
	21-08-2024	Biogeographically classification of India.
	23-08-2024	Value of biodiversity, Consumptive use, productive use,
	24-08-2024	social ethical, aesthetic and option values.
AUGUST 5TH WEEK	26-08-2024	HOLIDAY
	27-08-2024	Biodiversity at global, national and local level.
	28-08-2024	poaching of wild life, man wildlife conflicts.
	30-08-2024	Endangered and endemic species of India
SEPTEMBER 1ST WEEK	31-08-2024	Ex-situ Conservation and In-situ conservation
	03-09-2024	Revision CH-4
	04-09-2024	Environmental pollution. Definition, causes ,effects and control measures of Air pollution.
	06-09-2024	Water Pollution
SEPTEMBER 2ND WEEK	07-09-2024	HOLIDAY
	10-09-2024	Soil Pollution
	11-09-2024	Marine Pollution, Noise Pollution
	13-09-2024	Thermal Pollution, Nuclear hazards
SEPTEMBER 3RD WEEK	14-09-2024	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	17-09-2024	Continuation of control measures of urban and industrial wastes.
	18-09-2024	Role of an individual in prevention of pollution,
	20-09-2024	Disaster management:
SEPTEMBER 4TH WEEK	21-09-2024	Floods, earth quake, cyclone and landslides
	24-09-2024	Revision CH-5
	25-09-2024	Social issues and the Environment, Introduction
	27-09-2024	Form unsustainable to sustainable development.
OCTOBER 1ST WEEK	28-09-2024	Urban problems related to energy, Water conservation,
	01-10-2024	Rain water harvesting, water shed management.
	02-10-2024	HOLIDAY
	04-10-2024	Resettlement and rehabilitation of people;
OCTOBER 2ND WEEK	05-10-2024	Its problems and concern.
	06-10-2024	
	07-10-2024	
	08-10-2024	
OCTOBER 3RD WEEK	09-10-2024	
	10-10-2024	
	11-10-2024	
	12-10-2024	
OCTOBER 4TH WEEK	15-10-2024	Environmental ethics: issue and possible solutions.
	16-10-2024	Climate change, global warming,
	18-10-2024	acid rain, ozone layer depletion,
	19-10-2024	nuclear accidents and holocaust, case studies.
OCTOBER 5TH WEEK	22-10-2024	Air (prevention and control of pollution) Act.,
	23-10-2024	Water (prevention and control of pollution)
	25-10-2024	Revision CH-6
	26-10-2024	Population growth and variation among nations.
NOVEMBER 1ST WEEK	29-10-2024	Population explosion- family welfare program.,
	30-10-2024	Environment and human health.
	01-11-2024	Human right, Value education,
	02-11-2024	Role of information technology in environment and human health
NOVEMBER 2ND WEEK	05-11-2024	Revision CH-7
	06-11-2024	REVISION of all topics with Semester Questions
	08-11-2024	REVISION of all topics with Semester Questions

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Archana Tripathy
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Academic Lesson Plan of Winter 2024		
Discipline: Information Technology	Semester : 5th	Name of the Teaching faculty: Archana Tripathy
Subject :	No. of Days/per week class allotted : 04	Semester from date : 1/07/2024 to 08/11/2024
MOBILE COMPUTING (TH-5)	Class Day	No. of Weeks : 15
		Theory / Practical Topics
JULY 1ST WEEK	01-07-2024	Introduction to Wireless networks & Mobile Computing, Networks, Wireless Networks
	03-07-2024	Mobile Computing, Mobile Computing Characteristics, Application of Mobile Computing
	04-07-2024	Introduction to Mobile Development Framework, C/s architecture
JULY 2ND WEEK	05-07-2024	n-tier architecture, n-tier architecture and WWW
	08-07-2024	Peer-to Peer architecture, Mobile Agent Architecture
	10-07-2024	REVISION OF Ch-1 & 2
JULY 3RD WEEK	11-07-2024	Wireless Transmission, Introduction, Signals, Antennas, Signal Propagation
	12-07-2024	Multiplexing & Types of Multiplexing
	15-07-2024	SDM, FDM, TDM, CDM
JULY 4TH WEEK	17-07-2024	HOUDAY
	18-07-2024	Modulation, Types of modulation techniques
	19-07-2024	continuation of types of modulation techniques
JULY 5TH WEEK	22-07-2024	Spread Spectrum and DSSS, FHSS, Cellular System
	24-07-2024	Cells, Cluster, Frequency Reuse, Cell Splitting
	25-07-2024	Handoff, Cellular Radio
AUGUST 1ST WEEK	26-07-2024	REVISION OF Ch-3
	29-07-2024	Medium Access Control, Introduction, Hidden/Exposed Terminals
	31-07-2024	The basic Access Method, Near / Far Terminals
AUGUST 2ND WEEK	01-08-2024	SDMA, FDMA,
	02-08-2024	TDMA, CDMA
	05-08-2024	REVISION OF Ch-4
AUGUST 3RD WEEK	07-08-2024	Wireless LANs, Wireless LAN and communication
	08-08-2024	IR Advantages and Disadvantages
	09-08-2024	RF Advantages and Disadvantages
AUGUST 4TH WEEK	12-08-2024	Wireless Network Architecture Logical
	14-08-2024	Types of WLAN, IEEE 802.11
	15-08-2024	HOLIDAY
AUGUST 5TH WEEK	16-08-2024	IEEE 802.11 architecture
	19-08-2024	HOLIDAY
	21-08-2024	Other standards MAC layer
SEPTEMBER 1ST WEEK	22-08-2024	Security, Synchronization, Power Management
	23-08-2024	Roaming, Bluetooth Overview (piconet, Scatternet)
	26-08-2024	HOLIDAY
SEPTEMBER 2ND WEEK	28-08-2024	REVISION OF Ch-5
	29-08-2024	Ubiquitous Wireless Communication, Introduction Scenario of Mobile Communication
	30-08-2024	Mobile Communication Generations 1G to 3G, 3rd Generation Mobile Communication Network
SEPTEMBER 3RD WEEK	02-09-2024	Universal Mobile telecommunication System (UMTS), UMTS Services
	05-09-2024	UMTS Architecture, UMTS User Equipment
	06-09-2024	Continue UMTS User Equipment
SEPTEMBER 4TH WEEK	07-09-2024	HOLIDAY
	09-09-2024	UMTS Channels
	11-09-2024	Mobile IP, Overview, Working with mobile IP
SEPTEMBER 5TH WEEK	12-09-2024	REVISION OF Ch-6
	13-09-2024	Mobile IP Entities, Mobility Agents, Components of Mobile IP
	16-09-2024	HOLIDAY
OCTOBER 1ST WEEK	18-09-2024	Mobile IPv6 Features, Mobile IPv6 address Types
	19-09-2024	Mobile IPv6 address Scope, Mobile IP operation
	20-09-2024	Continue Mobile IP operation
OCTOBER 2ND WEEK	23-09-2024	Problem of Mobile IP, Comparison of IPv4 and IPv6
	24-09-2024	Dynamic Host Configuration Protocol (DHCP)
	25-09-2024	REVISION OF Ch-7
OCTOBER 3RD WEEK	26-09-2024	Mobile Computing, WAP
	27-09-2024	WWW architecture for Mobile computing Need of WAP, Benefits of WAP, Examples of WAP its use
	30-09-2024	WAP: Architecture, WAP protocols
OCTOBER 4TH WEEK	02-10-2024	HOLIDAY
	03-10-2024	WML, WAP Push architecture
	04-10-2024	Push-Pull based data acquisition, I-mode, WAP 2.x
OCTOBER 5TH WEEK	06-10-2024	PUJA VACATION
	07-10-2024	
	08-10-2024	
NOVEMBER 1ST WEEK	09-10-2024	
	10-10-2024	
	11-10-2024	
NOVEMBER 2ND WEEK	12-10-2024	
	14-10-2024	REVISION OF Ch-8
	15-10-2024	Wireless Telecomm Networks, GSM
NOVEMBER 3RD WEEK	16-10-2024	GSM Architecture, GSM Components
	18-10-2024	GPRS, GPRS Architecture
	21-10-2024	GPRS limitations and application
NOVEMBER 4TH WEEK	22-10-2024	IS-95, IS 95 Architecture
	23-10-2024	CDMA-2000
	25-10-2024	W-CDMA, Wireless Sensor Networks
NOVEMBER 5TH WEEK	28-10-2024	REVISION OF Ch-9
	29-10-2024	Messaging Services, Short Message Services (SMS) and benefit of SMS
	30-10-2024	Multimedia Message Services (MMS)
NOVEMBER 6TH WEEK	31-10-2024	HOLIDAY
	01-11-2024	Main component of MMS architecture, Support coding formats
	04-11-2024	Multimedia transmission over wireless
NOVEMBER 7TH WEEK	06-11-2024	REVISION OF Ch-10
	07-11-2024	REVISION of all topics with Semester Question
	08-11-2024	REVISION of all topics with Semester Question

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