# TARE NO LIBERT

# **INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500 043

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

#### **DEFINITIONS AND TERMINOLOGY QUESTION BANK**

Course Name	: DISASTER MANAGEMENT
Course Code	: ACE551
Program	: B.Tech
Semester	: VI
Branch	: CSE/IT/ECE/EEE/ME
Course Faculty	: Mr. Gude Ramakrishna, Associate Professor, CE Mr. S Siva Rama krishna, Assistant Professor, CE Mr. S Selva Prakash, Assistant Professor, CE Mr. G N V Sai Teja, Assistant Professor, CE Ms. N Sri Ramya, Assistant Professor, CE Mr. J Tirupathi, Assistant Professor, CSE

#### **COURSE OBJECTIVES:**

The	The course should enable the students to:							
I	Identify the major disaster types and develop an understanding of modern disaster management.							
II	Recognize and develop awareness of the chronological phases of natural disaster response and refugee relief operations.							
III	Understand the key concepts of disaster management related to development and the relationship of different disaster management activities.							
IV	Categorize the organizations that are involved in natural disaster assistance and relief system.							

## DEFINITIONS AND TERMINOLOGYQUESTION BANK

S.No	QUESTION	ANSWER	<b>Blooms Level</b>	CO	CLO	CLO Code
		UNIT -I				
1	What are the phases of disaster?	Phases of disaster 1.Pre-impact phase 2. Impact phase 3. Post-impact phase.	Remember	CO1	CLO1	ACE551.01
2	Principles of disaster management.	<ul> <li>Disaster management should use resources that exist for a day-to-day purpose.</li> <li>Individuals are responsible for their own safety.</li> </ul>	Understand	CO1	CLO2	ACE551.02
3	What are the rehabilitation phase?	<ul> <li>Water supply</li> <li>Food safety</li> <li>Basic sanitation and personal hygiene</li> <li>Housing.</li> </ul>	Remember	CO1	CLO1	ACE551.01
4	What are the extra tropical cyclones?	Extra tropical cyclones, sometimes called mid-latitude cyclones, are a group of cyclones defined as synoptic scale low pressure weather systems that	Remember	CO1	CLO1	AEE503.01

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
		occur in the middle latitudes of				
		the earth.				
5	Name the types of environmental disasters.	<ol> <li>Geo-hydrological disasters</li> <li>Chemical accidents / disasters</li> <li>Industrial environmental disasters</li> <li>Climate Change &amp; Disasters</li> </ol>	Understand	CO1	CLO3	ACE551.03
6	Explain about cyclones.	Cyclone is the term used globally to cover tropical weather systems in which winds equal or exceed ale force (62 kmph). These are intense low pressure areas of the earth atmosphere coupled system and are extreme weather events of the tropics.	Remember	CO1	CLO2	ACE551.02
7	Explain about	Windstorm, a wind that is strong	Remember	CO1	CLO1	ACE551.02
,	windstorms	enough to cause at least light damage to trees and buildings and may or may not be accompanied by precipitation. Wind damage can be attributed to gusts (short bursts of high-speed winds) or longer periods of stronger sustained winds.				
8	What is need of energy management?	Energy management is the means to controlling and reducing your organizations energyconsumption.	Remember	CO1	CLO1	ACE551.02
9	Explain about National emergency management organization.	A national emergency management organization that is separate from other government agencies is preferable. Responsibility should also be decentralized to rovincial government.	Remember	CO1	CLO1	ACE551.01
10	List any four environmental disasters.	Bhopal: the Union Carbide gas leak     Chernobyl: Russian nuclear power plant explosion     Seveso: Italian dioxin crisi     The 1952 London smog disaster.	Understand	CO1	CLO2	ACE551.02
11	Draw the disaster-cycle.	Disaster Cycle  Tegotagy  Response	Remember	CO1	CLO2	ACE551.02
12	What are factor of avalanche possibility?	The biggest factor of avalanche possibility is the accumulation snow over the winter season  – More snow = bigger avalanche.	Understand	CO1	CLO3	ACE551.03
13	Explain about Earthquakes.	Earthquakes are caused by the release of built up pressure caused by the shifting of tectonic plates  • Earthquakes usually occur on fault lines, or areas where tectonic plates meet.	Remember	CO1	CLO2	ACE551.03

S.No	QUESTION	ANSWER	<b>Blooms Level</b>	CO	CLO	CLO Code
14	What is Global warming?  What are the major forms of	<ul> <li>Global warming is the rise in the average temperature of Earth's atmosphere and oceans since the late 19th century and its projected continuation. Since the early 20th century,</li> <li>Earth's mean surface temperature has increased by about 0.8 °C (1.4 °F), with about twothirds of the increase occurring since 1980.</li> <li>The release of chemicals and particulates into the atmosphere.</li> </ul>	Remember	CO1	CLO2	ACE551.03 ACE551.03
	pollution?	Common gaseous pollutants include carbon monoxide, sulfur dioxide, chlorofluorocarbons (CFCs) and nitrogen oxides produced by industry and motor vehicles. Photochemical ozone and smog are created as nitrogen oxides and hydrocarbons react to sunlight.		0		
		UNIT – II	I			
1	What is Environmental Degradation?	Environmental degradation is the disintegration of the earth or deterioration of the environment through consumption of assets, for example, air, water and soil; the destruction of environments and	Remember	CO2	CLO6	ACE551.06
2	Causes of environmental degradation.	the eradication of wildlife.  1. Land Disturbance 2. Pollution 3. Overpopulation 4. Landfills	Remember	CO2	CLO6	ACE551.06
3	Types of damage due to avalanches.	<ul> <li>5. Deforestation</li> <li>Traffic blocked by snow deposited on road surface.</li> <li>Roads damaged by avalanches.</li> <li>Road structures, such as retaining walls, overturned.</li> </ul>	Remember	CO2	CLO6	ACE551.06
4	Differentiate between global and local taxes.	Local taxes are established in an element. Since it is in the element level, they change with the change in orientation of the element. The direction differs from element to element.  Global taxes are defined for the entire system.	Remember	CO2	CLO8	ACE551.08
5	What are the types of natural disaster?	types of disasters include:  • Tornadoes and Severe Storms.  • Hurricanes and Tropical Storms.  • Floods.  • Wildfires.  • Earthquakes.  • Drought.	Understand	CO2	CLO6	ACE551.06
6	What are the prevention of	prevention of biological disasters 1. Environmental Management. 2.Post-disasterEpidemics	Understand	CO2	CLO8	ACE551.08

S.No	QUESTION	ANSWER	<b>Blooms Level</b>	CO	CLO	CLO Code
	biological disasters?	Prevention 3.Detection and Containment of Outbreaks.				
7	What are the classification of natural disasters?	<ul><li>Atmospheric</li><li>Terrestrial</li><li>Aquatic</li><li>Biological.</li></ul>	Remember	CO2	CLO6	ACE551.06
8	What are the types of droughts?	Meteorological Drought     Agricultural Drought     Hydrological Drought     Ecological Drought.	Understand	CO2	CLO6	ACE551.06
9	Explain about hydrological drought.	It results when the availability of water in different storages and reservoirs like aquifers, lakes, reservoirs, etc. falls below what the precipitation can replenish.	Remember	CO2	CLO6	ACE551.06
10	Explain about ecological drought.	When the productivity of a natural ecosystem fails due to shortage of water and as a consequence of ecological distress, damages are induced in the ecosystem.	Understand	CO2	CLO8	ACE551.08
11	Explain about coldwave.	Occurrences of extreme low temperature in association with incursion of dry coldwinds from north into the sub-continent are known as cold waves. The northern parts of India, specially the hilly regions and the adjoining plains, are influenced by transient disturbances.	Understand	CO2	CLO8	ACE551.08
12	What are the types of droughts?	Various heat transfer mechanisms are convection, conduction, radiation and evaporate cooling.	Remember	CO2	CLO6	ACE551.06
13	What are the cause of drought?	The primary cause of any drought is deficiency of rainfall and in particular, the timing, distributionand intensity of this deficiency in relation to existing reserves.	Remember	CO2	CLO4	ACE503.06
14	Explain about ecological drought.	When the productivity of a natural ecosystem fails due to shortage ofwater and as a consequence of ecological distress, damages are induced in the ecosystem.	Understand	CO2	CLO8	ACE551.08
15	What are the cause of drought?	The primary cause of any drought is deficiency of rainfall and in particular, the timing, distributionand intensity of this deficiency in relation to existing reserves.	Understand	CO2	CLO8	ACE551.08
1	What are the surface cause of an earthquake?	UNIT – II Great explosions, landslides, slips on steep coasts, dashingof sea waves,avalanches, railway trains,	Understand	CO3	CLO10	ACE551.10

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		heavy trucks, somelarge engineering projects cause minor tremors. Some of them aremanmade, other are natural.				
2	Classification of hazards on the basis of origin of the hazards.	<ul><li>Terrestrial hazards</li><li>Exogenic Hazards</li><li>Biotic Hazards.</li></ul>	Understand	CO3	CLO10	ACE551.10
3	Why regional sediment management?	Sediment is an essential and dynamic part of the Harbor Estuary; its quality and quantity are integral to ecosystem health and a fundamental component of the regional economy.	Understand	CO3	CLO10	ACE551.10
4	What are the causes of tropical cyclone?	A cyclone is formed over tropical seas. Winds from opposite directions meet. This air is heated by the warm seas and so evaporates moisture from the ocean. This warm air rises up rapidly, cools and condenses to form clouds and produces an area of very low pressure. When moisture and air mix, it makes a collection of thunderstorms from which a cyclone can develop.	Remember	CO3	CLO10	ACE551.10
5	Explain about toxic gases.	Toxic gases can be present in a confined space because the type of manufacturing process uses toxic substances as part of the production process, or biological and chemical "breakdown" of the product being stored in a tank, and from maintenance activities (welding) being performed in the confined space.	Remember	CO3	CLO8	AEE503.08
	Discuss about ecology and its components?	An ecosystem is a community of living organisms in conjunction with the nonliving components of their environment, interacting as a system. These biotic and a biotic components are linked together through nutrient cycles and energy flows.	Understand	CO3	CLO8	AEE503.08
7	List out the situation during post disaster phase?	Disaster Mitigation involves lessening the likely effects of emergencies. These include depending upon the disaster, protection of vulnerable population and structure.	Remember	CO3	CLO8	AEE503.08
8	Define Disaster Drill?	It is an exercise in which people simulate the circumstances of a	Remember	CO3	CLO8	AEE503.08

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
		disaster so that they have an opportunity to practice their responses.				
9	How do you mean by exogenous?	Exogenous is the opposite of endogenous. If your village traditions favor endogenous marriage, you'll marry somebody from your own village. In biology and medicine, especially psychiatry, the word exogenous is used to describe outside factors, something that originates from	Remember	CO3	CLO8	AEE503.08
		outside the organism.				
10	What is tectonic process?	Tectonic processes mostly take place at the plate edges. A plate moves as a single entity along the surface of the Earth over a plastic mantle. There are two types of plate: Oceanic plates form at the mid-ocean ridges	Understand	CO3	CLO8	AEE503.08
11	What is volcanism and Platonism?	Platonism (or volcanism) is the geologic theory that the igneous rocks forming the Earth originated from intrusive magmatic activity, with a continuing gradual process of weathering and erosion wearing away rocks, which were then deposited on the sea bed, reformed into layers of sedimentary rock by heat and pressure.	Remember	CO3	CLO9	AEE503.09
12	Explain the term Epicenter?	The epicenter, seismology is the point on the Earth's surface directly above a hypocenter or focus, the point where an earthquake or an underground	Remember	CO3	CLO9	AEE503.09
13	Explain the term Focus?	explosion originates.  Focus-The location where the earthquake begins. The ground ruptures at this spot, then seismic waves radiate outward in all directions.	Remember	CO3	CLO9	AEE503.09
14	Explain the term Waves?	Earthquakes radiate seismic energy as both body and surface waves. Traveling through the interior of the earth, body waves arrive before the surface waves emitted by an earthquake. These waves are of a higher frequency than surface waves. The first kind of body wave is the P wave or primary wave.	Understand	CO3	CLO9	ACE503.09
15	Explain the term Tsunami?	A large wave on the ocean, usually caused by an undersea earthquake, a volcanic eruption, or coastal landslide. A tsunami can travel hundreds of miles over the open sea and cause extensive	Remember	CO3	CL14	ACE503.09

S.No	QUESTION	ANSWER	<b>Blooms Level</b>	CO	CLO	CLO Code
		damage when it encounters land. Also called tidal waves.				
		UNIT – IV	,			
1	What are the types of tropical cyclones?	<ul><li>Tropical cyclone</li><li>Subtropical cyclone</li><li>Extra tropical cyclone.</li></ul>	Remember	CO4	CLO13	ACE551.13
2	Explain about tropical cyclone.	Tropical Cyclone Genesis is the technical term for the process of storm formation that leads ultimately to what are called hurricanes, typhoons, or tropical cyclones in various parts of the world.	Understand	CO4	CLO13	ACE551.13
3	Explain about hydro-meteorological disasters.	A flood is an excess of water (or mud) on land that's normally dry and is a situation wherein the inundation is caused by high flow, or overflow of water in an established watercourse, such as a river, stream, or drainage ditch; or ponding of water at or near the point where the rain fell. This is a duration type event. A flood can strike anywhere without warning, occurs when a large volume of rain falls within a short	Understand	CO4	CLO13	ACE551.13
	0	time.	- N	7	0	)
	What are the types of floods?	<ul><li>Flash Floods</li><li>River Floods</li><li>Coastal Floods</li><li>Urban and small stream flood.</li></ul>	Remember	CO4	CLO13	ACE551.13
	State primary causes for floods.	<ul> <li>Intense rainfall when the river is flowing full. Cyclone and very intense rainfall when the EL Nino effect is on a decline.</li> <li>Synchronization of flood peaks in the main rivers or their tributaries.</li> <li>Landslides leading to obstruction of flow and change in the river course.</li> <li>Poor natural drainage system.</li> <li>Backing water in tributaries at their confluence with the main river.</li> </ul>	Remember	CO4	CLO13	ACE551.13
	Specify the flood safety tips.	<ol> <li>All your family members should know the safe routes to nearest shelter/raised puccahouse.</li> <li>If your area is flood-prone, consider suitable flood resistant</li> </ol>	Understand	CO4	CLO13	ACE551.13

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		building materials.				
		3. Tune to your local radio/TV for				
		warnings and advice. Have an				
7	What are the flood	emergency kit ready.  (i) Critical flood control and river	Remember	CO4	CLO13	ACE551.13
		management works in the entire	Remember	CO4	CLO13	ACE551.15
	management	country (includes river				
	Components?	management, flood control, anti-				
		erosion, drainage development,				
		anti-sea erosion, and flood				
		proofing works besides flood				
		prone area development				
		Programme in critical regions and				
		restoration of damagedflood				
		control/ management works).  (ii) The spillover works of on-				
		going central plan schemes of Xth				
		Plan would also be supported				
		under thisscheme during XI Plan.				
8	Explain about	A physical hazard is defined as	Understand	CO4	CLO14	ACE551.14
	physical hazards.	"A factor within the environment				
		that can harm the body without				
		necessarily touching it. Vibration				
		and noise are examples of				
		physical hazards".				
		Physical hazards include but aren't limited to electricity,				
		radiation, pressure, noise, heights				
		and vibration amongst many				
		others.				
9	Define soil erosion.	The upper layer of the soil	Understand	CO4	CLO14	ACE551.14
	100	consists of fine soil particles. It is				
	643	rich in minerals and has humus.				
		Hence, humus makes the soil fertile. Sometimes heavy rain,	4		,000	
		running water and wind remove			1	2
		the top layer of soil. This			. ~	
		phenomenon is soil erosion.			A	
10	Explain about soil	Water erodes soil mainly in two	Remember	CO4	CLO13	AEE551.13
	by water erodes.	ways:			V.	
	7	1. By the violent splash of the		. Q		
		falling raindrop on bare soil.				
		2. By the scouring action of soil-	. 0.	~		
		laden water moving down the slopes.	1.10			
11	Explain about	Wind erosion starts when bare	Remember	CO4	CLO13	AEE551.13
11	Wind Erosion		Kemember	CO4	CLO13	AEEJJ1.13
	,, m <b>o</b> 21051011	sandy soil becomes dry and high				
		winds roll the sand grains over				
		each other, resulting in shifting				
		sand dunes.				
		During dust storms, the finer				
		particles of silt may be picked up				
		by the wind and carried for miles.				
		The results are depletion of the				
		soil, a covering up of good				
		farmland by worthless sand, and				
		menacing dust storms.				
		farmland by worthless sand, and				

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12	What are the	There are four main factors that	Understand	CO4	CLO14	ACE551.14
	Factors that cause	contribute to a landslide:				
	landslides?	1. Slope				
		2. Precipitation				
		3. Vegetation				
13	What are the	In India a total of 1 750 000	Remember	CO4	CLO13	ACE551.13
	problems caused	square kmout of the total land	Remember			
	by soil erosion?	area of 3 280 000 square km is				
		prone to soil erosion. Thus about				
		53% of the total land area of India				
		is prone to erosion Areas affected				
		by soil erosion in India can be				
		broadly grouped into two				
		categories, representing, firstly,				
		the Himalayan and Lower				
		Himalayan region and, secondly, other regions.				
14	Explain about	Basins constructed to collect and	Remember	CO4	CLO13	ACE551.14
1.	sediment basins.	store sediment during runoff	Kemember		CLOIS	1102331111
		events. Also known as detention				
		ponds. Sediment is deposited				
		from runoff during impoundment				
		in the sediment basin.				
15	Define	Sodimentation is the tendency for	Ll mala mata mal	CO4	CLO14	ACE551.14
13	Sedimentation?	Sedimentation is the tendency for particles in suspension to settle	Understand	CO4	CLO14	ACE331.14
	bedimentation:	out of the fluid in which they are				
		entrained and come to rest against	~			
	640	a barrier.			-	
		UNIT – V	7			
1	Explain about	Disaster prevention and	Remember	CO5	CLO16	ACE551.16
1	disaster	mitigation refers to the activities	Remember	003	CLOIU	ACE331.10
	prevention and	which are undertaken to prevent				
	mitigation.	or mitigate the adverse effects of				
	8	a disaster in short period.	- 0	~		
		UA	. 10			
2	Explain about	The intention of Disaster	Remember	CO5	CLO16	ACE551.16
	disaster	preparedness is to prevent or				
	preparedness.	minimize the losses and damage in case of a disaster.				
		in case of a disaster.				
3	Explain	The response phase includes the	Understand	CO5	CLO16	ACE551.16
	aboutresponse,	search and rescue; fulfilling basic				
	recovery and	humanitarian needs of victims;				
	reconstruction.	assistance by regional, national				
		and international bodies etc.				
		Recovery phase starts after the				
		immediate threat to human life				
		has subsided. The immediate goal				
1		of the recovery phase is to bring				

S.No	QUESTION	ANSWER	<b>Blooms Level</b>	CO	CLO	CLO Code
		the affected area back to some degree of normalcy. During reconstruction, the location or construction material of the property is considered.				
4	What is goal of environment and disastermanagem ent?	The goal of Environment and Disaster Management is the safety and sustainability of human lives  • Safety is related to avoiding death and injuries to human lives during a disaster  • Sustainability is related to livelihood, socio-economic, cultural, environmental and psychological aspects.	Remember	CO5	CLO17	ACE551.17
5	Explain about coastalzone management and disaster preparedness.	<ul> <li>Green belt and mangrove in the coastal zone, coral reef protection and coastal regulatory zones are considered as environment protection measures</li> <li>However, these elements are strongly linked to tsunami protection in the coastal areas.</li> <li>Livelihood support to the fisherman, protection of environment in the coastal area, and disaster prevention interface was lacking in most of the places.</li> </ul>	Understand	CO5	CLO17	ACE551.17
6	What is Community risk assessment?	A highly localized risk analysis is produced in this way, and local participants also discuss the appropriate response to those risks. Past disasters are recalled. Lessons of other people's experience are discussed. In this way, the locality studies itself. A core group of knowledgeable and motivated volunteers is developed, who can help to train others in the community, possibly on a paid basis.	Understand	CO5	CLO17	ACE551.17
7	Explain about risk perception.	The perception of risk is not universally the same. It can vary from culture to culture, by socioeconomic class and even by individual. For example, many farmers live on the slopes of active volcanoes or in the flood plains of rivers because they perceive the balance of benefits to risks as favor. However, some risks are not consciously chosen, but simply thrust upon people because information is not made available and there is no public discussion.	Remember	CO5	CLO16	ACE503.16

points should Remember at the time of disaster emergency?  If different warning systems are used, they should not give conflicting messages, or people will tend to ignore them;  Messages should state clearly the exact nature of the impending threat and its implications for the target population;  The potential victims of a disaster should be clearly identified.	CO5	CLO CLO17	ACE551.17
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	CO5		
	COS	CIC17	ACE551.17
Problems with sites. These sites are usually		CLO17	ACESS1.17
temporary forced settlement sites and the			
emergency problems include: no reliable			
settlements? water supplies; a high water-table			
Random defecation. This is hard			
to control when populations have			
no experience of, or access to,			
latrines.			
A population that is too frightened,			
too hostile, or too socially			
fragmented to collaborate			
effectively.			
10 What are the providing facilities for people to Remember	CO5	CLO16	ACE551.16
priorities in the excrete safely and hygienically			
acute emergency — protecting water supplies from			
phase? contamination;			
— providing a minimum amount			
of water for drinking, cooking			
and personal and domestic			
hygiene;			Year.
— ensuring that people have			
enough water containers to collect	•		)
and store water cleanly;	,	-	
— ensuring that people have		4	
sufficient cooking utensils,			
equipment and fuel to cook and		Com-	
store food safely;	_	W	
— ensuring that people have the knowledge and understandingthey	. ~		
need to avoid disease;			
	CO5	CLO17	ACE551.17
Facilities for emergency personnel will vary	203	CLOIT	ACLSS1.17
emergency substantially according to the			
personnel? customary level of basic support,			
the task involved and the local			
conditions generated by the			
emergency. Broadly, however, all			
facilities will have common			
requirements, including:			
— Basic personal needs;			
— Family support			
— Safety and security			
— Emotional support and			
counselling.			
	CO5	CLO17	ACE551.17
personnel in post- many other threats to the health			
disaster. and safety of staff. The working			

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		environment tends to be unsafe, as				
		a result of damage to buildings and				
		roads, infectious diseases, or lack				
		of appropriate equipment for				
		reconstruction. In addition, the				
		need to act fast, the great risks				
		faced by the affected population,				
		and the lack of close monitoring				
		all discourage staff from applying				
		health and safety procedures.				
13	How you can	Increasing the capacity of people	Understand	CO5	CLO17	ACE551.17
	Increasing	to offset risk, absorb shocks and				
	individual and	meet contingencies is central to the				
	institutional	goal of sustainable recovery.				
	capacity at the	Reconstruction of a damaged area				
	time of disaster?	is not limited to the erection of	and the same			
		new buildings. An integrated				
		development process is required				
		that should embrace the full				
		redevelopment of the affected area				
		according to the needs of its				
		population.				
14	Explain about	Transportation is needed for a	Remember	CO5	CLO16	ACE551.16
	transportation and	range of environmental health				
	logistics at the	operations during emergencies,				
	time of disaster.	including,				
		— moving assessment and				
		operational teams				
		— road clearance				
		— moving people affected by				
		disaster				
		— moving equipment and				1-
	1774	supplies				No.
	76.7	— trucking water.				
15	What are the	The following major risk areas	Remember	CO5	CLO17	ACE551.17
	Special rules in	must be subject to detailed control			-	
	areas of high	and regulation, even under			1	
	potential public-	extreme emergency conditions:			-	
	health risk?	— the continued operation or			Date:	
	-03	recommissioning of large water-			1	
	7	supply systems that have been				
		damaged				
		— the selection of sources for		-		
		emergency water supply	. 170			
		— the emergency disposal of				
		toxic materials, especially soluble				
		industrial waste				
		— Large-scale feeding.				

**Signature of the Faculty** 

HOD, ECE