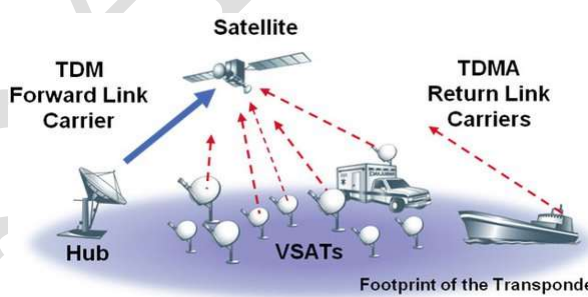




Department of Electronics and Communication Engineering
Innovative Teaching Methods

Activity Title	Role Play
Faculty Name/Department	S.Piriyadharshini
Mapped Course Name & Code	EC8094 - Satellite Communication
Date	07.01.2023
Benefitted Students (Year / Sem / Dept)	IV
Topic	Multiple Access Techniques
Description	<p>Idea: Students are given a scenario and other options to solve a particular issue, then the students are exposed to decision making in a given environment.</p> <p>Implementation: Some students are selected randomly. Each student is assigned a message, Multiplexer and demultiplexer. Once process is running students organized one by one as per the access methods Eg: TDMA</p>  <p>The diagram illustrates a TDMA (Time Division Multiple Access) satellite communication system. A central satellite is shown in orbit, connected to a ground station labeled 'Hub'. The satellite communicates with multiple ground stations labeled 'VSATs' (Very Small Aperture Terminals) and a ship. A solid blue arrow labeled 'TDM Forward Link Carrier' points from the Hub to the satellite. Red dashed arrows labeled 'TDMA Return Link Carriers' point from the VSATs and the ship back to the satellite. A shaded area on the ground is labeled 'Footprint of the Transponder'.</p>
Course Outcomes (CO)	CO5: To get acquaintance with RF system transceiver design
Performance Indicator (PI)	1.4.1
Mail ID (for review)	ece.piriyadharshini@msajce-edu.in

Topics/ Questions:**Marks:**

Group Name	Reg No.	Topic	Marks		Total
			(10)	(10)	
A	311820106001	TDMA	10	10	20
	311820106002		10	10	20
	311820106009		10	10	20
	311820106007		10	10	20
	311820106003		10	10	20
	311820106004		10	10	20
	311820106005		10	10	20
B	311820106006	CDMA	10	10	20
	311820106011		10	9	19
	311820106013		10	10	20
	311820106014		9	9	18
	311820106016		9	9	18
	311820106017		10	10	20
D	311820106018	OFDMA	10	10	20
	311820106305		10	10	20
	311820106302		10	10	20
	311820106010		10	10	20
	311820106020		10	9	19
	311820106022		10	10	20
E	311820106021	SDMA	10	10	20
	311820106025		10	10	20
	311820106301		10	9	19

Outcome: This activity is used to understand the concepts excellently.