



Draft Programme

	Day 1 – 13 Oct. 2019	Day 2 – 14 Oct. 2019	Day 3 – 15 Oct. 2019	Day 4 – 16 Oct. 2019	Day 5 – 17 Oct. 2019
09.00-11.00	<b>Registration (09.00-09.30)</b> <b>Opening Session (09.30-10.00)</b> <b>Basics of Satellite Communications:</b> <ul style="list-style-type: none"> <li>• Birth of Satellite</li> <li>• Communication Links</li> <li>• Satellite Orbits</li> <li>• Orbital Positions and Radio Interference</li> <li>• Satellite Lifecycle Management</li> </ul>	<b>Fundamentals of Satellite Communications:</b> <ul style="list-style-type: none"> <li>• Introduction to Satellite Communications</li> <li>• Satellite Network Design</li> <li>• Technology Trends</li> <li>• Satellite Earth Station Components</li> </ul>	<b>Radio Regulations Cont'd:</b> <ul style="list-style-type: none"> <li>• Harmful Interference (SIRRS)</li> <li>• Submission of Comments</li> <li>• Exercise on SpaceCom</li> <li>• Exercise on e-submission</li> </ul>	<b>Link Budget Analysis:</b> <ul style="list-style-type: none"> <li>• Components of a satellite circuit</li> <li>• Digital Communications Chain</li> <li>• Modulation</li> <li>• Chanel Coding</li> <li>• Efficiency</li> <li>• Link Budget Analysis Tools</li> </ul>	<b>VSAT Equipment and Bandwidth Procurement</b> <ul style="list-style-type: none"> <li>• Defining needs</li> <li>• Procuring the VSAT system</li> </ul>
11.00-11.30	<b>Health Break</b>	<b>Health Break</b>	<b>Health Break</b>	<b>Health Break</b>	<b>Health Break</b>
11.30-13.30	<b>Basics of Satellite Communications (Cont'd):</b> <ul style="list-style-type: none"> <li>• The Space Segment</li> <li>• The Ground Segment</li> <li>• Services</li> <li>• Digital Video Broadcasting,</li> <li>• Digital Satellite News Gathering</li> <li>• Broadband Internet</li> <li>• Multicast Internet Services</li> </ul>	<b>Radio Regulations Cont'd</b> <ul style="list-style-type: none"> <li>• BRIFIC (Space Services) and Preface</li> <li>• Space Services Website</li> <li>• Receivability of Space Notices and e-submission (Resolution 908)</li> <li>• Cost Recovery for satellite filings</li> <li>• Introduction to BR Space Software and Databases</li> <li>• Installation of BR Software*</li> </ul>	<b>Radio Regulations Cont'd:</b> <ul style="list-style-type: none"> <li>• Capturing of Earth Station for coordination</li> <li>• Creation of Earth Station coordination contours</li> </ul>	<b>Exercise on Link Budget Analysis</b>  <b>VSAT Installation and Maintenance</b>	<b>Policy and Regulatory Guidelines for Satellite Services</b> <ul style="list-style-type: none"> <li>• Legal Framework</li> <li>• Key regulatory and licensing trends</li> <li>• Market Entry</li> </ul>
13.30-14.30	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>
14.30-16.30	<b>Radio Regulations</b> <ul style="list-style-type: none"> <li>• ITU and ITU-R Overview</li> <li>• Coordination procedures for Non-planned space services</li> <li>• Notification and Recording of frequency assignments</li> <li>• Small Satellite Regulations FSS Plan</li> <li>• BSS Plans</li> </ul>	<b>Network Planning Fundamentals:</b> <ul style="list-style-type: none"> <li>• Digital Communication Techniques</li> <li>• Modulation</li> <li>• Satellite Economics</li> <li>• Satellite Network Topologies</li> </ul>	<b>Excursion to Satellite Earth Station (to be arranged and confirmed by Algeria FP)</b>	<b>WRC-19 Preparations</b> <ul style="list-style-type: none"> <li>• ITU-R Study Groups</li> <li>• WRC-19 Agenda items related to Space Services</li> </ul>	<b>General Test</b>  <b>Q&amp;A</b>  <b>Closing Activities</b>