## COURSE PROGRAM FOR ITSO/ITU WORKSHOP ON SATELLITE COMMUNICATIONS AFRALTI, NAIROBI KENYA 17-21 July 2017

Time	Day 1	Day 2	Day 3	Day 4	Day 5
08.30-09.00	Opening Session				
09.00-10.30	Basics of Satellite Communications  Birth of Satellite Communication Links Satellite Orbits Orbital Positions and Radio Interference Satellite Lifecycle Management	Policy and Regulatory Guidelines for Satellite Services  Radio regulatory organizations Satellite policy principles	Network Planning & Link Budget Analysis  Satellite Network Topology Access Schemes	VSAT Installation and Maintenance INSTALLATION: • Site Survey • Antenna Alignment • Configuring the IDU • Satellite Dish Assembly • Satellite Pointing	Radio Regulations (Cont'd)  • Comments using SpaceCom
10.30-11.00	Morning Health Break	Morning Health Break	Morning Health Break	Morning Health Break	Morning Health Break
12.30-14.00	Basics of Satellite Communications (Cont'd)  The Space Segment  The Ground Segment  Introduction to Radio Regulation  Services  Technology Trends  Lunch Break	Policy and Regulatory Guidelines for Satellite Services (Cont'd)  Legal Framework  Key regulatory and licensing trends  Means of monitoring and controlling the spectrum  Lunch Break	Network Planning & Link Budget Analysis (Cont'd)  C Band vs Ku/Ka Band  Digital Communications Techniques  Modulation  VSAT and Data Communications  Lunch Break	VSAT Installation and Maintenance (Cont'd) MAINTENANCE:  • Preventive Maintenance  • Troubleshooting  • Service Level Agreement  • Escalation Procedure  Lunch Break	VSAT Equipment and Bandwidth Procurement
14.00-15.30	<ul> <li>Radio Regulations</li> <li>Overview</li> <li>Orbital Spectrum –         International Regulatory         Framework     </li> <li>Space FSS and BSS Plans</li> </ul>	Radio Regulations (Cont'd)  BR Space Software and database.  BR IFIC on DVD-ROM, Preface;	Network Planning & Link Budget Analysis (Cont'd)  Link Budget Analysis	Radio Regulations (Cont'd)  ■ Capture, Validation and Submission of Earth Stations	WRC-15 Outcomes and WRC 19 Preparations
15.30-15.45	Aft'noon Health Break	Aft'noon Health Break	Aft'noon Health Break	Afternoon Health Break	Afternoon Health Break
15.45-16.30	<ul> <li>Radio Regulations (Cont'd)</li> <li>Non Planned Satellite Services (Coordination and Notification)</li> </ul>	<ul> <li>Earth Station         Coordination and         Tools     </li> </ul>	Link Budget Analysis     (Cont'd)	Radio Regulations (Cont'd) • Receivability of notices for Space services,	Joint Wrap Up Session