

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 <ul style="list-style-type: none"> • Birth of Satellite • Communication Links • Satellite Orbits • Orbital Positions and Radio Interference • Satellite Lifecycle Management 	Policy and Regulatory Guidelines for Satellite Services <ul style="list-style-type: none"> • Radio regulatory organizations • Satellite policy principles 	Network Planning & Link Budget Analysis <ul style="list-style-type: none"> • Satellite Network Topology • Access Schemes 	VSAT Installation and Maintenance INSTALLATION: <ul style="list-style-type: none"> • Site Survey • Antenna Alignment • Configuring the IDU • Satellite Dish Assembly • Satellite Pointing 	Radio Regulations (Cont'd) <ul style="list-style-type: none"> • Comments using SpaceCom
10.30-11.00	Morning Health Break	Morning Health Break	Morning Health Break	Morning Health Break	Morning Health Break
11.00-12.30	Basics of Satellite Communications (Cont'd) <ul style="list-style-type: none"> • The Space Segment • The Ground Segment • Introduction to Radio Regulation • Services • Technology Trends 	Policy and Regulatory Guidelines for Satellite Services (Cont'd) <ul style="list-style-type: none"> • Legal Framework • Key regulatory and licensing trends • Means of monitoring and controlling the spectrum 	Network Planning & Link Budget Analysis (Cont'd) <ul style="list-style-type: none"> • C Band vs Ku/Ka Band • Digital Communications Techniques • Modulation • VSAT and Data Communications 	VSAT Installation and Maintenance (Cont'd) MAINTENANCE: <ul style="list-style-type: none"> • Preventive Maintenance • Troubleshooting • Service Level Agreement • Escalation Procedure 	VSAT Equipment and Bandwidth Procurement <ul style="list-style-type: none"> • Defining your needs: • Acquiring the VSAT
12.30-14.00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00-15.30	Radio Regulations <ul style="list-style-type: none"> • Overview • Orbital Spectrum – International Regulatory Framework • Space FSS and BSS Plans 	Radio Regulations (Cont'd) <ul style="list-style-type: none"> • BR Space Software and database. • BR IFIC on DVD-ROM, Preface; 	Network Planning & Link Budget Analysis (Cont'd) <ul style="list-style-type: none"> • Link Budget Analysis 	Radio Regulations (Cont'd) <ul style="list-style-type: none"> • 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	Radio Regulations (Cont'd) <ul style="list-style-type: none"> • Non Planned Satellite Services (Coordination and Notification) 	<ul style="list-style-type: none"> • Earth Station Coordination and Tools 	<ul style="list-style-type: none"> • Link Budget Analysis (Cont'd) 	Radio Regulations (Cont'd) <ul style="list-style-type: none"> • Receivability of notices for Space services, 	Joint Wrap Up Session