



WORKSHOP ON ENGINEERING FUNDAMENTALS FOR BROADCASTERS

04-08 December 2017, Kuala Lumpur

04-December : Day 1 - Basics of Audio and Video		Speaker
0900-0930hrs	<p>Opening Session</p> <p><i>Welcome Address</i></p> <p><i>Welcome Address</i></p> <p><i>Introduction to the Workshop and brief overview of the topics</i></p>	<p><i>Mr Chan Jin, Director AIBD</i></p> <p><i>Dr AMAL Punchihewa, Director Technology and Innovation, ABU</i></p> <p>Mr Utpal Kanti Mandal, Programme Manager/Broadcast Engineer, AIBD</p>
0930-1030hrs	Evolution of Audio and Video and the broadcast value chain	
1030-1100hrs	Networking break (Tea/Coffee)	
1100-1230hrs	Television Broadcasting: System and Operations	
1230-1400hrs	Lunch Break	
1400-1530hrs	IBB (HbbTV) service setup and provision for DTV	Ms. Imaliana Muzni, Broadcast System Engineer Mediaprima
1530-1600hrs	Networking break	
1600-1730hrs	Spectrum for media delivery and management	Mr Utpal Kanti Mandal
05-December : Day 2		
0900-1030hrs	<p>Concepts of Analogue to Digital Conversion</p> <p><i>The need for digital and compression, Basic theory and concept, Sampling and quantisation, Different coding methods, The dynamic range and quantisation error.</i></p>	<i>Dr AMAL Punchihewa</i>
1030-1100hrs	Networking break (Tea/Coffee)	
1100-1230hrs	Radio Studio and System Design for the future	Mr. Bala Murali Subramaney, CTO General Manager, Astro Radio
1230-1400hrs	Lunch Break	
1400-1500hrs	Operations and Maintenance of Broadcast Facilities.	
1530-1600hrs	Networking break	
1600-1730hrs	Digital Radio	
06-December : Day 3 –		

0900-1030hrs	Transmission concepts	
1030-1100hrs	Networking break (Tea/Coffee)	
1100-1230hrs	Radio & TV Transmitters	
1230-1400hrs	Lunch Break	
1400-1530hrs	Principles of media compression, technologies and standards MPEG Video schemes and standards	<i>Dr AMAL Punchihewa</i>
1530-1600hrs	Networking break (Tea/Coffee)	
1600-1730hrs	Digital TV Distribution and Transmission Systems	
07 December : Day 4 – Converged IT Environment		
0900-1030hrs	Converged media-IT-broadcast Solutions	
1030-1100hrs	Networking break (Tea/Coffee)	
1100-1230hrs	Powering Video Solutions through Cloud Media Services & CDN	
1230-1400hrs	Lunch Break	
1400-1530hrs	Use of IP in media production	
1530-1600hrs	Networking break (Tea/Coffee)	
1600-1730hrs	Virtualisation of Infrastructure, Networks and Services	Mr Siva, IT manager, ABU
08 December : Day 5– New Media and Online Delivery		
0900-1030hrs	Evolving Media and Delivery Platforms - HDR and UHD	
1030-1100hrs	Networking break (Tea/Coffee)	
1100-1230hrs	Application of AI, ML and Analytics in Media Technologies – Evolving Media Technologies – AI, AR, VR	Dr AMAL Punchihewa
1230-1400hrs	Lunch Break	
1400-1530hrs	Multi-platform delivery and Quality of Experience	
1530-1600hrs	Networking break	
1600-1700hrs	Discussion and Q&A	Dr Amal Punchihewa, Director, ABU Technology & Innovation

1700- 1730hrs	Evaluation and Closing	
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