**Satellite Communication Systems Course**

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| **Wed, 20September 2023**  ONLINE | | **Thu, 21 September 2023**  **ONLINE** | | **Fri, 22 September 2023**  **ONLINE** | | **Mon, 25 September 2023**  **ONLINE** | | **Tue 26 September 2023**  **ONLINE** | | **Thu 28 September 2023**  **HYBRID** | |
|  | **MODULE 1**  **APPLICATIONS** |  | **MODULE 2:**  **LINK ENGINEERING** |  | **MODULE 3:**  **ACCESS & NETWORKS** |  | **MODULE 4:**  **ANTENNAS AND SPACECRAFT** |  | **MODULE 5:**  **REGULATIONS & SPECTRUM** |  | **MODULE 6:**  **WORKSHOP ERERCISES** |
| **08:30** | **Teams open** | **08:45** | **Teams open** | **08:45** | **Teams open** | **08:45** | **Teams open** | **08:45** | **Teams open** | **08:45** |  |
|  | |  | |  | |  | |  | |  | |  |  |  |  | **Chair: David Bookham,**  **Consultant Engineer** |
| **09:00** | **Session 1**  **Chairman’s welcome**  **Principles and background of Satellite communications** | **09:00** | **Session 5**  **Link Budget Primer** | **09:00** | **Session 9**  **Propagation** | **09:00** | **Session 13**  **Passive Antennas** | **09:00** | **Session 17**  **Satcoms Regulations and Spectrum Management** | **09:00** | **Session 20**  Projects:  **Project A: Payload design**  **Project B: Earth station design** |
| **10:30** | **Refreshment break** | **10:30** | **Refreshment break** | **10:30** | **Refreshment break** | **10:30** | **Refreshment break** | **10:30** | **Refreshment break** | **10:30** |  |
| **10:45** | **Session 2**  **Commercial Aspects of Satcoms** | **10:45** | **Session 6**  **Modulation and Coding** | **10:45** | **Session 10**  **Satellite Access Techniques** | **10:45** | **Session 14**  **Active Antennas** | **10:45** | **Session 18**  **Payload Engineering** | **10:45** | **Session 20 (Continued)** |
| **12:15** | **Lunch** | **12:15** | **Lunch** | **12:15** | **Lunch** | **12:15** | **Lunch** | **12:15** | **Lunch** | **12:15** |  |
| **13:15** | **Session 3**  **Milsatcoms** | **13:15** | **Session 7**  **Satellite System Planning -  Power Link Budgets** | **13:15** | **Session 11**  **TCP/IP and Satellite** | **13:00** | **Session 15**  **Satcom on the Move (SOTM)** | **13:15** | **Session 19**  **Earth Station RF Engineering** | **13:15** | **Session 21**  **Project Presentations** |
| **14:45** | **Refreshment break** | **14:45** | **Refreshment break** | **14:45** | **Refreshment break** | **14:30** | **Refreshment break** | **14:45** | **Refreshment break** | **14:45** |  |
| **15:00** | **Session 4**  **Emerging Technologies – Satellite-5G Future Vision** | **15:00** | **Session 8**  **QoS Design Using Link Budgets** | **15:00** | **Session 12**  **NGSO systems** | **14:45** | **Session 16A**  **Spacecraft Engineering & Operations** | **15:00** | **Close of Day 5 and Project Briefs** | **15:00** | **Project Summary** |
| **15:45** | **Refreshment break** | **15:30** | **Close of Day 5** | **15:30** | **Session 22**  **Site tour : Airbus faculity in Stevenage** |
| **16:00** | **Session 16B**  **Space Environment** |  |  | **17:00** |  |
| **16:30** | **Close of Day 1** | **16:30** | **Close of Day 2** | **16:30** | **Close of Day 3** | **17:00** | **Close of Day 4** |  |  |  | |