



the
abdus salam
international centre for theoretical physics



SMR 1217

1st 2/2/00

**SCHOOL ON DATA AND MULTIMEDIA
COMMUNICATIONS USING TERRESTRIAL
AND SATELLITE RADIOLINKS**

7 - 25 February 2000

TENTATIVE PROGRAMME

Monday, 7 February

09.00 - 09.30		REGISTRATION	
09.30 - 10.00	"B"	OPENING	Prof. S.M. Radicella ICTP Prof. R Struzak, ITU-BR, Geneva
10.00 - 12.00		ADMINISTRATIVE MATTERS	
12.00 - 14.30		LUNCH BREAK	
14.30 - 15.15	"B"	Introduction to rational use of radio waves	R. Struzak, ITU-BR, Geneva
15.30 - 16.15	"B"	Introduction to rational use of radio waves	R. Struzak, ITU-BR, Geneva
16.30 - 17.15	Lab	ICTP on the Internet (Practical exercise)	J. Grassberger SCS, ICTP

* **VENUE:** kindly refer to the indication in the 2nd column.

"B" = lectures are held in room "B", terrace level Main Building

Lab. = exercises are held in the ComputerLab ground floor Main Building

Monday, 14 February

TIME	VENUE	LECTURE EXERCISES	LECTURER
09.00 - 09.45	"B"	ITU-R Radiocommunication Study Group Work	K. Hughes, ITU-BR, Geneva
10.00 - 10.45	"B"	Propagation considerations important for today's Radiocommunication Systems	K. Hughes, ITU-BR, Geneva
11.00 - 11.45	"B"	Sharing and co-ordination issues in ITU-R propagation studies	K. Hughes, ITU-BR, Geneva
12.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	Introduction to Radio Equipment	F. Postogna, ICTP
15.45 - 16.45	Lab	Introduction to Networking- Routing-Subnetting	C. Benvenuti, University of Bologna
17.00 - 18.00	Lab	Introduction to Networking- Routing-Subnetting	C. Benvenuti, University of Bologna

Tuesday, 15 February

TIME	VENUE	LECTURE EXERCISES	LECTURER
09.00 - 10.00	Lab	Project Overview	C. Fonda, ICTP
10.15 - 11.15	Lab	Exercises on Networking	C. Benvenuti, University of Bologna
11.30 - 12.30	Lab	Exercises on Networking	C. Benvenuti, University of Bologna
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	Exercises on Networking	C. Benvenuti, University of Bologna
15.45 - 16.45	Lab	Exercises on Networking	C. Benvenuti, University of Bologna
17.00 - 18.00	Lab	Exercises on Networking	C. Benvenuti, University of Bologna

Wednesday, 16 February

TIME	VENUE	TOPIC	LECTURER
09.00 - 10.00	Lab	Introduction to Spread Spectrum	F. Postogna, ICTP
10.15 - 11.15	Lab	Introduction to Spread Spectrum	F. Postogna, ICTP
11.30 - 12.30	Lab	Introduction to Spread Spectrum	F. Postogna, ICTP
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	Spread Spectrum LAN implementation	F. Postogna, ICTP
15.45 - 16.45	Lab	Spread Spectrum LAN implementation	F. Postogna, ICTP
17.00 - 18.00	Lab	Spread Spectrum LAN implementation	C. Fonda, ICTP

Thursday, 17 February

TIME	VENUE	TOPIC	LECTURER
09.00 - 09.45	"B"	Terrestrial and satellite based cellular communications (I)	R. Meidan, Motorola Israel
10.00 - 10.45	"B"	Terrestrial and satellite based cellular communications (II)	R. Meidan, Motorola Israel
11.00 - 11.45	"B"	Terrestrial and satellite based cellular communications (III)	R. Meidan, Motorola Israel
12.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	Point to point link with Clarion	C. Benvenuti, University of Bologna
15.45 - 16.45	Lab	Network monitoring with Scotty	C. Benvenuti, University of Bologna
17.00 - 18.00	Lab	Network monitoring with Scotty	C. Benvenuti, University of Bologna

Friday, 18 February

TIME	VENUE	TOPIC
09.00 - 10.00	"B"	Case Studies
10.15 - 11.15	"B"	Case Studies
11.30 - 12.30	"B"	Case Studies
12.30 - 14.30		LUNCH BREAK
		FREE TIME

Monday, 21 February

TIME	VENUE	TOPIC	LECTURER
09.00 - 10.00	Lab	Introduction to Packet Radio	F. Postogna, ICTP
10.15 - 11.15	Lab	Exercises on Packet Radio	C. Fonda, ICTP
11.30 - 12.30	Lab	Exercises on Packet Radio	C. Fonda, ICTP
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	Radio measurements	F. Postogna, ICTP
15.45 - 16.45	Lab	Radio measurements	F. Postogna, ICTP
17.00 - 18.00	Lab	LOS and not-LOS links	C. Fonda, ICTP

Tuesday, 22 February

TIME	VENUE	TOPIC	LECTURER
09.00 - 10.00	Lab	Satellite Demonstration	F. Postogna and C. Fonda, ICTP
10.15 - 11.15	Lab	Satellite Demonstration	F. Postogna and C. Fonda, ICTP
11.30 - 12.30	Lab	Satellite Demonstration	F. Postogna and C. Fonda, ICTP
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.30	Lab	TCP/IP implementation over Packet Radio	C. Fonda, ICTP
15.45 - 16.45	Lab	TCP/IP implementation over Packet Radio	C. Fonda, ICTP
17.00 - 18.00	Lab	Remote data acquisition	F. Postogna, ICTP

Wednesday, 23 February

TIME	VENUE	TOPIC	LECTURER
09.00 - 13.00		1.5 GHz antenna pointing and packet radio link set up	Visit at ACEGAS plant
12.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	"B"	Revision of morning activity	
		FREE TIME	

Thursday, 24 February

TIME	VENUE	LECTURE EXERCISE	LECTURER
09.00 - 10.00	Lab	Introduction to GPS and APRS	C. Fonda, ICTP
10.15 - 11.15	Lab	Demonstration GPS and APRS	C. Fonda and F. Postogna, ICTP
11.30 - 12.30	Lab	Demonstration GPS and APRS	C. Fonda and F. Postogna, ICTP
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.15	"B"	The Global Information Infrastructure and developing countries: the use of Radio Technologies	S.M. Radicella, ICTP
15.30 - 16.15	"B"	Production forces and the evolution of telecommunications: interactions among the actors of production process	G. Repici
16.30 - 17.15	"B"	Expected evolution of network services	G. Repici

Friday, 25 February

TIME	VENUE	LECTURE EXERCISE	LECTURER
09.00 - 11.00	"B"	FINAL OVERVIEW PRESENTATION OF CERTIFICATES	

