

**CEP/QIP course on Optical Fiber/Wireless Communication and Networks
Tentative schedule**

1) December 17th, 2016, Saturday

Registration starts: 9 am

S.No.	Timings	Course	Speaker
1)	9:30 – 9:45	Program inauguration	
2)	9:45 – 10:35	Introduction to optical communications - I	Prof. Ajoy Ghatak
3)	10:45 – 11:35	Introduction to optical communications - II	Prof. K. Thyagarajan
4)	11:45 – 12:35	Wireless optical communications - I	Prof. V. K. Jain
5)	12:45 – 1:35	Wireless optical communications - II	Prof. V. K. Jain
Lunch break			
6)	2:30 – 4:30	Practical sessions (Dr. Abhishek Dixit)	LightSim Demo

2) December 18th, 2016, Sunday

S.No.	Timings	Course	Speaker
1)	9:45 – 10:35	Introduction to optical networks - I	Prof. V. Chandra
2)	10:45 – 11:35	Practical deployment issues in optical networks	Dr. Anuj Srivastava

3)	11:45 – 12:35	Optical access networks	Dr. Abhishek Dixit
4)	12:45 – 1:35	FTTH networks: deployment and case studies	Dr. Anuj Srivastava
Lunch			
5)	2:30 – 4:30	Practical sessions (Dr. Abhishek Dixit)	LightSim Demo

3) December 19th, 2016, Monday

S.No.	Timings	Course	Speaker
1)	9:45 – 10:35	Evolution of optical communications technology	Dr. Arvind Mishra
2)	10:45 – 11:35	Flexi-grid and software defined optical networks	Dr. Arvind Mishra
3)	11:45 – 12:35	LiFi and VLC networks	Dr. Anand Srivastava
4)	12:45 – 1:35	Trends in optical communications	Dr. K. Sivarajan
Lunch			
5)	2:30 – 4:30	Discussions and Conclusions	All speakers

Bibliography:

1. G. P. Agrawal, "*Fiber Optic Communication Systems*," 3rd Edition, John Wiley & Sons, 2002.
2. J. M. Senior, "*Optical Fiber Communications: Principles and Practice*," 2nd Edition, Prentice Hall of India, 1992.

3. G. Keiser, "*Optical Fiber Communication Systems*," 3rd Edition, McGraw Hill, 2000.
4. R. Ramaswami, K. Sivarajan, and G. Sasaki, "*Optical networks: A practical perspective*," 3rd Edition, Morgan-Kaufman, 2009.
5. J. C. Palais, "*Fiber Optic Communications*," 5th Edition, Pearson, 2005.
6. D. Chadha, "*Terrestrial wireless optical communication*," McGraw Hill Professional, 2013.
7. J. Franz, and V. K. Jain, "*Optical Communications: Components and Systems: Analysis--design--optimization—application*," CRC press, 2000.
8. G. Keiser, "*FTTX concepts and applications*," vol. 91. John Wiley & Sons, 2006.