

COURSE SCHEDULE – Spring 2008

Week	Date	Pages	Topics or Section
1	01/29	1 - 20	Introduction, Chapter 1
	01/31	25 - 61	2-1, 2-2, 2-3, 2-4
2	02/05	62 - 82	2-5, 2-6, 2-7, 2-10
	02/07	91 - 114	3-1, 3-2
3	02/12	115 - 132	3-3, 3-4, 3-5
	02/14	141 - 160	4-1, 4-2
4	02/19	161 - 193	4-3, 4-4, 4-5, 4-6
	02/21	204 - 214	5-1, 5-2
5	02/26	215 - 236	5-3, 5-4, 5-5, 5-6
	02/28	243 - 261	6-1, 6-2, 6.3
6	03/04	262 - 268	6.4, 6-5, 6-6, 6-7
	03/06		EXAM I: Chaps. 2, 3, 4, 5
7	03/11	274 - 280	Exam discussion, 7-1
	03/13	281 - 304	7-2, 7-3
8	03/18	305 - 314	7-4, 7-5
	03/20	321 - 334	8-1
9	03/25	335 - 351	8-2, 8.3, 8-4
	03/27	358 - 360	9-1
10	04/01		Spring Break
	04/03		Spring Break
11	04/08	361 - 366	9-2
	04/10		EXAM II: Chaps. 6, 7, 8
12	04/15		Exam Discussion
	04/17	367 - 374	9-3, 9-4
13	04/22	379 - 405	10-1, 10-2
	04/24	406 - 414	10-3, 10-4
14	04/29	423 - 430	11-1, 11-2
	05/01	431 - 449	11-3, 11-4, 11-5, 11-6, Project Report Due
15	05/06	457 - 477	12-1, 12-2
	05/08		Recent developments (Chapter 12)
16	05/13		Course Wrap-up
	05/15		Review for Final
17	05/22		Final Exam 10:15 a.m. – 12:15 p.m.

Course Outline:

Introduction to Optical Fibers.....	1.25 hours
Basic Waveguide Equations	1.25
Fiber Types and Properties	2.50
Optical Sources	2.50
Photodetectors and Optical Receivers	6.25
Source Coupling and Splices	2.50
IMDD Systems	3.75
Analog Systems	2.50
COFOCS Systems	3.75
Advanced Systems and Techniques	3.75
Current Research Perspectives	1.25
Review for Midterm/Final	2.50
Midterm Exams	2.50
Final Exam	<u>2.00</u>
.....	39.50 hours

References:

"Fiber Optic Communications", by Joseph C. Palais, Prentice Hall, Third Edition, New Jersey, 1992.

"Fiber-Optic Communication Systems", by Govind P. Agrawal, John Wiley & Sons, 1992.

"Fiber Optics & Optoelectronics", by Peter K. Cheo, Second Edition, New Jersey, 1990.

"Introduction to Optical Fiber Communication Systems", by William B. Jones, HRW Publishing, 1988.

Selected articles from IEEE Journal of Lightwave Technology and IEEE Journal of Quantum Electronics.

"An Introduction to Optical Fibers", by Allen H. Cherin, McGraw Hill, New York, 1983.

"Fundamentals of Optical Fiber Communication", by M. K. Barnoski, Academic Press, NY, 1981.

"Optical Fiber Communication Systems", by Leonid Kazovsky, Sergio Benedetto, and Alan Willner, Artech House, Norwood, MA, 1996.

"Principles and Applications of Optical Communications" by Max Liu, Richard D. Irwin Publishing Company, 1996.

"Elements of Optoelectronics and Fiber Optics", by Chin-Lin Chen, Richard D. Irwin Publishing Company, 1996.