### EIE442 - Data and Computer Communications

**Lecturer:** Sau-Fat, Simon, Hau (Dr)  
**Consultation Hour:** Monday-Friday 09:00-10:00  
**Academic Year:** 2004-2005

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecturer</th>
<th>Activity</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1</strong></td>
<td><strong>2004 - Sep - 01</strong></td>
<td>Sau-Fat, Simon, Hau (Dr) - COM</td>
<td><strong>Lecture 1</strong> Introduction (Forouzan 2nd Chapter 1 - pp.1 to 19), Basic Concepts (Forouzan Chapter 2 - pp.21 to 41). The OSI Model (Forouzan Chapter 3 - pp.43 to 63).</td>
<td>2 hr</td>
</tr>
<tr>
<td><strong>Self-Study</strong></td>
<td>Read Forouzan Chapter 1 &amp; 2 &amp; 3 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers from the Text Book web-site.</td>
<td>3 hr</td>
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<tr>
<td><strong>Remarks</strong></td>
<td>Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.</td>
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<tr>
<td><strong>Week 2</strong></td>
<td><strong>2004 - Sep - 08</strong></td>
<td>Sau-Fat, Simon, Hau (Dr) - COM</td>
<td><strong>Lecture 2</strong> The OSI Model. (Forouzan 2nd ed Chapter 4 - pp.43 to 63). Supplementary Material (Will be given out to you in due time). Signals.(Forouzan 2nd ed Chapter 4 - pp.65 to 90).</td>
<td>2 hr</td>
</tr>
<tr>
<td><strong>Self-Study</strong></td>
<td>Read Forouzan Chps.4 &amp; 5. Read Supplementary Material. Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers from the Text Book web-site.</td>
<td>4 hr</td>
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<tr>
<td><strong>Remarks</strong></td>
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<td><strong>Week 3</strong></td>
<td><strong>2004 - Sep - 15</strong></td>
<td>Sau-Fat, Simon, Hau (Dr) - COM</td>
<td><strong>Lecture 3</strong> Encoding and Modulation (Forouzan 2nd ed Chapter 5 - pp.91 to 138). Transmission of Digital Data: Interface and Modems(Forouzan 2nd ed Chapter 6 - pp.91 to 138)</td>
<td>2 hr</td>
</tr>
<tr>
<td><strong>Homework 1</strong></td>
<td>Assignment 1</td>
<td>1 hr</td>
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<tr>
<td><strong>Self-Study</strong></td>
<td>Read Forouzan Chps. 5 &amp; 6 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers. Study for test.</td>
<td>4 hr</td>
<td></td>
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</tr>
<tr>
<td><strong>Remarks</strong></td>
<td>Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.</td>
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<tr>
<td><strong>Week 4</strong></td>
<td><strong>2004 - Sep - 22</strong></td>
<td>Sau-Fat, Simon, Hau (Dr) - COM</td>
<td><strong>Lecture 4</strong> Transmission of Digital Data: Interface and Modems (Forouzan 2nd ed Chapter 6 - pp.91 to 138) Multiplexing(Forouzan 2nd ed Chapter 8 - pp.231 to 271).</td>
<td>2 hr</td>
</tr>
<tr>
<td><strong>Test Quiz 1</strong></td>
<td></td>
<td>1 hr</td>
<td></td>
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</table>

Read Forouzan Chapter 7 (Will not be covered in
Self-Study  
3 hr

Text Book  
Data Communications and Networking 2nd Edition Behrouz A. Forouzan 

Remarks  
Attempting the quiz in Forouzan's book is part of the home work but the student need not hand it in.

Week 5  
2004 - Sep - 29  
Sau-Fat, Simon, Hau (Dr) - COM

Lecture 5  
Error Detection and Correction (Forouzan 2nd ed Chapter 9 - pp.273 to 299)  
2 hr

Laboratory 1  
Lab  
3 hr

Self-Study  
Read Forouzan Chapter 9 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers.  
4 hr

Text Book  
Data Communications and Networking 2nd Edition Behrouz A. Forouzan 

Remarks  
Attempting the quiz in Forouzan's book is part of the home work but the student need not hand it in.

Week 6  
2004 - Oct - 06  
Sau-Fat, Simon, Hau (Dr) - COM

Lecture 6  
Data Link Layer(Forouzan 2nd edChp. 10)  
2 hr

Tutorial 2  
1 hr

Laboratory 2  
Lab  
3 hr

Self-Study  
Read Forouzan Chp. 10 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers.  
3 hr

Text Book  
Data Communications and Networking 2nd Edition Behrouz A. Forouzan 

Remarks  
Attempting the quiz in Forouzan's book is part of the home work but the student need not hand it in.

Week 7  
2004 - Oct - 13  
Sau-Fat, Simon, Hau (Dr) - COM

Lecture 7  
Data Link Layer Protocol (Forouzan 2nd ed Chp. 5 pp. 329 to 368)  
2 hr

Homework 2  
Assignment 2  
1 hr

Laboratory 3  
Lab  
3 hr

Self-Study  
Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers. Study for test.  
4 hr

Text Book  
Data Communications and Networking 2nd Edition Behrouz A. Forouzan 

Remarks  
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Week 8  
2004 - Oct - 20  
Sau-Fat, Simon, Hau (Dr) - COM

Lecture 8  
LAN (Forouzan 2nd ed Chp. 12 pp. 369 to 412)  
2 hr

Laboratory 4  
Lab  
3 hr

Test Quiz 2  
1 hr

Self-Study  
3 hr

Text Book  
Data Communications and Networking 2nd Edition Behrouz A. Forouzan 

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### Week 9
**2004 - Oct - 27**

<table>
<thead>
<tr>
<th>Lecture 9</th>
<th>Switching (Forouzan 2nd ed Chp. 14 pp. 431 to 454)</th>
<th>2 hr</th>
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<tbody>
<tr>
<td>Tutorial 3</td>
<td></td>
<td>1 hr</td>
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<tr>
<td>Laboratory 5</td>
<td>Lab</td>
<td>3 hr</td>
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<tr>
<td>Self-Study</td>
<td>Read Forouzan Chp.14. Read Forouzan Chp.15 (Will not be covered in class) Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers.</td>
<td>4 hr</td>
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**Text Book**


**Remarks**

Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.

### Week 10
**2004 - Nov - 03**

<table>
<thead>
<tr>
<th>Lecture 10</th>
<th>X.25 (Forouzan 2nd ed Chp. 17 pp.505 to 523) Frame relay (Forouzan 2nd ed Chp. 18 pp.525 to 551) ATM (Forouzan 2nd ed Chp. 19 pp.553 to 592)</th>
<th>2 hr</th>
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</thead>
<tbody>
<tr>
<td>Laboratory 6</td>
<td>Lab</td>
<td>3 hr</td>
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<tr>
<td>Self-Study</td>
<td>Home Assignment : Read Forouzan Chp. 17, 18 &amp; 19. Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers. Study for test.</td>
<td>4 hr</td>
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**Text Book**


**Remarks**

Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.

### Week 11
**2004 - Nov - 10**

<table>
<thead>
<tr>
<th>Lecture 11</th>
<th>Networking devices (Forouzan 2nd ed Chp. 21 pp. 649 to 667)</th>
<th>2 hr</th>
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<tr>
<td>Self-Study</td>
<td>Read Forouzan Chp. 21 Attempt the questions in Forouzan's book and the quiz in the text book web-site. Check the answers. Study for test.</td>
<td>4 hr</td>
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**Text Book**


**Remarks**

Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.

### Week 12
**2004 - Nov - 17**

<table>
<thead>
<tr>
<th>Lecture 12</th>
<th>Data Link Protocols (Forouzan Chp. 11) PolyU Revision week, make-up class</th>
<th>2 hr</th>
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<tbody>
<tr>
<td>Tutorial 4</td>
<td>Assignment 3</td>
<td>1 hr</td>
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<tr>
<td>Homework 3</td>
<td>Test Quiz 3</td>
<td>1 hr</td>
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<tr>
<td>Self-Study</td>
<td>Home Assignment : Read Forouzan Chp. 11 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers</td>
<td>3 hr</td>
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**Text Book**


**Remarks**

Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.

### Week 13
**2004 - Nov - 24**

<table>
<thead>
<tr>
<th>Lecture 12</th>
<th>Assignment 3</th>
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<tbody>
<tr>
<td>Homework 3</td>
<td>Assignment 3</td>
<td>Test Quiz 3</td>
</tr>
<tr>
<td>Self-Study</td>
<td>Home Assignment : Read Forouzan Chp. 11 Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers</td>
<td>3 hr</td>
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**Text Book**


**Remarks**

Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.
Lecture 13

Self-Study
TCP/IP Part1 (Forouzan 2nd ed Chp. 24 pp. 705 to 735)

Text Book

Remarks
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Week 14 2004 - Dec - 01 Sau-Fat, Simon, Hau (Dr) - COM

Lecture 14 TCP/IP Part2(Forouzan 2nd ed Chp. 25 pp. 737 to 775).

Tutorial 5 Test

Test Quiz 4 Test

Self-Study
Read Forouzan 2nd ed Chp. 25. Attempt the questions in Forouzan’s book and the quiz in the text book web-site. Check the answers.

Text Book

Remarks
Attempting the quiz in Forouzan’s book is part of the home work but the student need not hand it in.

Summary

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<tr>
<td>Lecture</td>
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<td>14</td>
<td>Test/Quiz</td>
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<td>Tutorial</td>
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<td>Self-Study</td>
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<td>Homework</td>
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<td>3</td>
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<td>Lab. Session</td>
<td>18</td>
<td>6</td>
<td>Mini-Project /Report</td>
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<td>Other Activities</td>
<td>0</td>
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<tr>
<td>Grand Total Hour</td>
<td>107</td>
<td>hour(s)</td>
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✓ I declare that the teaching schedule has covered all the materials as stated on the detailed syllabus.