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| COURSE: Discrete Mathematics | | |
| DEGREE: Bachelor in Informatics Engineering | YEAR: 1 | TERM: 2 |

| WEEKLY PLANNING | | | | | | | | | |
|------------------------|--------------|---|--------------|--------------|---|--|--|----------------|--------------------------------------|
| WEEK | SES- SION | DESCRIPTION | GROUPS | | SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room) | Indicate YES/NO If the session needs two teachers. Maximum 4 sessions | WEEKLY PROGRAMMING FOR STUDENT | | |
| | | | LEC- TURE | SEMI- NAR | | | DESCRIPTION | CLASS HOURS | HOME-WORK HOURS Maximum 7 H |
| 1 | 1 | Presentation of the course. Set theory. | x | | | No | Study Rosen's sections 1.6–1.8, 2.4, and 2.5. Work on problem set #1. | 1.66 | 5.68 |
| 1 | 2 | Problem session #1: Set theory. | | x | | No | | 1.66 | |
| 2 | 3 | Elementary counting principles. | x | | | No | Study Rosen's sections 4.1-4.5, 6.5, and 6.6. Work on problem set #2. | 1.66 | 5.68 |
| 2 | 4 | Problem session #2: Elementary counting principles. | | x | | No | | 1.66 | |
| 3 | 5 | Graph theory (1): Generalities. | X | | | No | Study Rosen's sections 8.1-8.4. Work on problem set #3. | 1.66 | 5.68 |
| 3 | 6 | Problem session #3: Graph theory (1) | | x | | No | | 1.66 | |
| 4 | 7 | Graph theory (2): Trees and planar graphs. | x | | | No | Study Rosen's sections 8.7, and 9.1-9.4. Work on problem set #4. | 1.66 | 5.68 |
| 4 | 8 | Problem session #4: Graph theory (2). | | x | | No | | 1.66 | |

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| 5 | 9 | Graph-theoretic algorithms (1). | x | | | No | Study Rosen's sections 8.6, and 9.5. Work on problem set #5. | 1.66 | 5.68 |
| 5 | 10 | Problem session #5: Graph-theoretic algorithms (1). | | x | | No | | 1.66 | |
| 6 | 11 | Graph-theoretic algorithms (2). | x | | | No | Study Rosen's sections 8.5, and 8.8. Work on problem set #6. | 1.66 | 5.68 |
| 6 | 12 | Problem session #6: Graph-theoretic algorithms (2). | | x | | No | | 1.66 | |
| 7 | 13 | Elementary combinatorics (2). | x | | | No | Study Rosen's section 4.5. Work on problem set #7. | 1.66 | 5.68 |
| 7 | 14 | Problem session #7: Elementary combinatorics (2). | | x | | No | | 1.66 | |
| 8 | 15 | Recurrence relations. | x | | | No | Study Rosen's sections 6.1, and 6.2. Work on problem set #8. | 1.66 | 5.68 |
| 8 | 16 | Problem session #8: Recurrence relations. | | x | | No | | 1.66 | |
| 9 | 17 | Generating functions. | x | | | No | Study Rosen's section 6.4. Work on problem set #9. | 1.66 | 5.68 |
| 9 | 18 | Problem session #9: Generating functions. | | x | | No | | 1.66 | |
| 10 | 19 | Combinatorial problems on graphs. | x | | | No | Study Rosen's section 8.8. Work on problem set #10. | 1.66 | 6.68 |
| 10 | 20 | Problem session #10: Combinatorial problems on graphs. | | x | | No | | 1.66 | |
| 11 | 21 | Equivalence relations. | x | | | No | Study Rosen's sections 7.1-7.5. Work on problem set #11. Prepare mid-term exam. | 1.66 | 5.68 |
| 11 | 22 | Problem session #11: Equivalence relations. | | x | | No | | 1.66 | |

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| 12 | 23 | Foundations of modular arithmetic. | x | | | No | Study Rosen's sections 2.4-2.6. Work on problem set #12. Prepare mid-term exam. | 1.66 | 5.68 |
| 12 | 24 | Problem session #12: Foundations of modular arithmetic. | | x | | No | | 1.66 | |
| 12 | 25 | Mid-term exam | x | | | No | | 1.66 | |
| 13 | 26 | Order relations. | x | | | No | Study Rosen's sections 3.3, and 7.6, and Merayo's section 4.14. Work on problem set #13. | 1.66 | 5.68 |
| 13 | 27 | Problem session #13: Order relations. | | x | | No | | 1.66 | |
| 14 | 28 | Lattices. | x | | | No | Study Rosen's sections 10.1 and 10.2, and Merayo's section 4.14. Work on problem set #14. | 1.66 | 5.68 |
| 14 | 29 | Problem session #14: Lattices. | | x | | No | | 1.66 | |
| SUBTOTAL | | | | | | | | 43.33 + 80.33 = 128.67 | |
| 15 | | Tutorials, handing in, etc | | | | | | | 7 |
| 16- 17 | | Assessment | | | | | Prepare final exam. | 3 | 21 |
| TOTAL | | | | | | | | 159.67 | |