

Faryab University  
Computer Science Faculty  
Network Engineering Department  
Semesters-wise Syllabus

## First Year: First Semester

| No.           | Subject                     | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|---------------|-----------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1             | Introduction to Programming | CS-101     | Core     | 4      | 2       | 4         | 6           | NE         |              |
| 2             | Computer Fundamental        | CS-103     | Basic    | 3      | 2       | 2         | 4           | NE         |              |
| 3             | Computer Skills             | CS-102     | Basic    | 3      | 2       | 2         | 4           | NE         |              |
| 4             | Modern History-1            | CO-102     | General  | 1      | 1       | 0         | 1           | IC         |              |
| 5             | Elementary English-1        | EL-101     | General  | 2      | 0       | 4         | 4           | FA         |              |
| 6             | Calculus-1                  | EL-102     | Basic    | 3      | 2       | 2         | 4           | MA         |              |
| 7             | Fundamental of Electronics  | CS-106     | Basic    | 2      | 1       | 2         | 3           | CS         |              |
| 7             | نظام اعتقادی اسلام          | SL.IC.0171 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 8             | تجوید                       | SL.IC.0172 | General  | 1      | 1       | 0         | 1           | IC         |              |
| Total Credits |                             |            |          | 21     |         |           |             |            |              |

### Elective:

[illegible]

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**First Year: Second Semester**

| No.                  | Subject                       | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|----------------------|-------------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1                    | Introduction to Programming 2 | CS-201     | Core     | 4      | 2       | 4         | 6           | NE         |              |
| 2                    | Digital Logic and Design      | CS-207     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 3                    | Data Communication            | CS-206     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 4                    | Modern History Afghanistan 2  | CO-202     | General  | 1      | 1       | 0         | 1           | IC         |              |
| 5                    | Functional English            | EL-201     | Basic    | 2      | 0       | 4         | 4           | FL         |              |
| 6                    | Discrete Mathematics          | EL-202     | Basic    | 3      | 2       | 2         | 4           | MA         |              |
| 7                    | نظام عبادتی اسلام             | SL.IC.0273 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 7                    | سیرت نبی                      | SL.IC.0274 | General  | 2      | 2       | 0         | 2           | IC         |              |
| <b>Total Credits</b> |                               |            |          | 20     |         |           |             |            |              |

**Elective:**

| No. | Subject                           | Code   | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|-----|-----------------------------------|--------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1   | Usage of Electronic Devices       | CS-211 | Elective | 2      | 1       | 2         | 3           | CE         |              |
| 2   | Introduction to Internet Services | CS-210 | Elective | 2      | 1       | 2         | 3           | NE         |              |
| 3   | Sport                             | GE-201 | Elective | 1      | 0       | 2         | 2           | Sport      |              |

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## Second Year: Third Semester

| No.           | Subject                           | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|---------------|-----------------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1             | Network Fundamentals              | CS-302     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 2             | Date Base Concepts                | CS-303     | Core     | 3      | 2       | 2         | 4           | IS         |              |
| 3             | Probability theory and Statistics | EL-302     | Basic    | 3      | 2       | 2         | 4           | MA         |              |
| 4             | Object Oriented Programming       | CS-301     | Core     | 3      | 2       | 2         | 4           | SE         |              |
| 5             | English Reading Comprehension     | EL-301     | Basic    | 2      | 0       | 4         | 4           | FL         |              |
| 6             | Web Design                        | CS-304     | Basic    | 3      | 2       | 2         | 4           | IS         |              |
| 7             | نظام اخلاقى اسلام                 | SL.IC.0375 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 8             | نظام اجتماعى اسلام                | SL.IC.0376 | General  | 2      | 2       | 0         | 2           | IC         |              |
| Total Credits |                                   |            |          | 21     |         |           |             |            |              |

### Elective:

[illegible]



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**Third Year: Fifth Semester**

| No.                  | Subject                               | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|----------------------|---------------------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1                    | Operating System Concept              | CS-501     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 2                    | Wireless Networks                     | CS-505     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 3                    | Software Engineering                  | CS-515     | Core     | 2      | 2       | 0         | 2           | SE         |              |
| 4                    | Routing and Switching Lab             | CS-513     | Core     | 2      | 0       | 4         | 4           | NE         |              |
| 5                    | System administration and Maintenance | CS-506     | Core     | 3      | 1       | 4         | 4           | NE         |              |
| 6                    | نظام سیاسی اسلام                      | SL.IC.0579 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 7                    | نظام اداری اسلام                      | SL.IC.0580 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 8                    | Introduction to Telecom Systems       | CS-525     | Elective | 2      | 1       | 2         | 3           | NE         |              |
| <b>Total Credits</b> |                                       |            |          | 19     |         |           |             |            |              |

**Elective:**

| No. | Subject                             | Code   | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|-----|-------------------------------------|--------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1   | Introduction to Information Systems | CS-514 | Elective | 2      | 1       | 2         | 3           | IS         |              |
| 2   | Introduction to Telecom Systems     | CS-525 | Elective | 2      | 1       | 2         | 3           | NE         |              |
| 3   | Educational Practice                | CS-503 | Project  | 2      |         |           | 2           | NE         |              |

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**Third Year: Sixth Semester**

| No.                  | Subject                          | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|----------------------|----------------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1                    | Advanced Network                 | CS-607     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 2                    | Unix Based OS                    | CS-602     | Core     | 3      | 2       | 2         | 4           | NE         |              |
| 3                    | Information Security Concept     | CS-603     | Core     | 3      | 2       | 2         | 4           | SE         |              |
| 4                    | Productive Practice (Internship) | CS-601     | Project  | 2      |         |           | 2           | NE         |              |
| 5                    | Cloud Computing                  | CS-617     | Core     | 2      | 2       | 0         | 2           | NE         |              |
| 6                    | Advanced Java Programming        | CS-604     | Core     | 3      | 2       | 2         | 4           | SE         |              |
| 7                    | نظام اقتصادی اسلام               | SL.IC.0681 | General  | 2      | 2       | 0         | 2           | IC         |              |
| 9                    | Network Operation & Maintenance  | CS-623     | Elective | 2      | 2       | 0         | 2           | NE         |              |
| <b>Total Credits</b> |                                  |            |          | 20     |         |           |             |            |              |

**Elective:**

| No. | Subject                         | Code   | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|-----|---------------------------------|--------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1   | Network Operation & Maintenance | CS-623 | Elective | 2      | 2       | 0         | 2           | NE         |              |
| 2   | Embedded Systems                | CS-611 | Elective | 3      | 2       | 2         | 4           | CE         |              |
| 3   | ICT 4D                          | CS-610 | Elective | 3      | 2       | 2         | 4           | SE         |              |



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**Fourth Year: Eighth Semester**

| No.                  | Subject                     | Code       | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|----------------------|-----------------------------|------------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1                    | Diploma Project             | CS-801     | Project  | 12     | 4       |           | 28          | NE         |              |
| 2                    | Distributed Network Systems | CS-802     | Core     | 4      |         |           | 5           |            |              |
| 3                    | ICT Policy                  | CS-807     | Elective | 2      | 2       | 0         | 2           | NE         |              |
| 4                    | تمدن اسلامی                 | SL.IC.0883 | General  | 2      | 2       | 0         | 2           | IC         |              |
| <b>Total Credits</b> |                             |            |          | 20     |         |           |             |            |              |

**Elective:**

| No. | Subject                                 | Code   | Category | Credit | Lecture | Practical | Total Hours | Department | Prerequisite |
|-----|-----------------------------------------|--------|----------|--------|---------|-----------|-------------|------------|--------------|
| 1   | ICT Policy                              | CS-807 | Elective | 4      | 3       | 2         | 5           | NE         |              |
| 2   | Advanced Mobile Application Development | CS-802 | Elective | 4      | 2       | 2         | 4           | IS         |              |
| 3   | Creativity Development                  | CS-812 | Elective | 2      | 1       | 2         | 3           |            |              |

نصاب تحصیلی دبیرانترنت انجیری شبکه در جلسه مورخ 1403/04/25 توسط کمیته نصاب تحصیلی پوهنچی اصلاح و ثبت پروتکول شماره ( 3 ) مورخ 1403/04/25 کتاب جلسات کمیته نصاب تحصیلی پوهنچی کمپیوتر ساینس گردید.

دوکتور غلام سخی احمدی

رئیس کمیته نصاب تحصیلی