საბაკალავრო საგანმანათლებლო პროგრამა

**კომპიუტერული მეცნიერება**

თბილისი

2021 წელი

**სასწავლო გეგმა**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **#** | **სასწავლო კურსი / მოდული/ პრაქტიკა / კვლევითი კომპონენტი** | **სტატუსი** | **კრედიტების რაოდენობა** | **კრედიტების განაწილება სასწავლო**  **კურსებისა და სემესტრების მიხედვით** | | | | | | | |  | |  | | | **საათების განაწილება** | | | | | | | **საკონტაქტო საათების რაოდენობა კვირაში** | | **I ს.წ.** | | **II ს.წ.** | | **III ს.წ.** | | **IV ს.წ.** | **საკონტაქტო** | | | | | | | | | |  | | **ჯამური საათები** | | **I სემესტრი** | **II სემესტრი** | **III სემესტრი** | **IV სემესტრი** | **V სემესტრი** | **VI სემესტრი** | **VII სემესტრი** | | | **VIII სემესტრი** | | **ლექცია/კონსულტაცია** | **სემინარი/ჯგუფური მუშაობა/**  **პრაქტიკული სამუშაო** | | **შუალედური გამოცდ(ა/ები)** | **დასკვნითი გამოცდა** | **სულ საკონტაქტო** | | **დამოუკიდებელი მუშაობის** | | 2 | კალკულუსი 1 | სავალდებულო | 6 | 6 |  |  |  |  |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 3 | კომპიუტერის არქიტექტურა | სავალდებულო | 5 | 5 |  |  |  |  |  |  | | |  | | 43 | - | | 2 | 2 | 47 | | 78 | 125 | 3 | | 4 | დაპროგრამების საფუძვლები | სავალდებულო | 5 | 5 |  |  |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 5 | კომპიუტერული მეცნიერებებისა და ტექნოლოგიების ასპექტები | სავალდებულო | 5 | 5 |  |  |  |  |  |  | | |  | | 30 | 13 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 6 | ფიზიკა | სავალდებულო | 5 |  | 5 |  |  |  |  |  | | |  | | 14 | 29 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 7 | კალკულუსი 2 | სავალდებულო | 6 |  | 6 |  |  |  |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 8 | მონაცემთა ბაზები | სავალდებულო | 5 |  | 5 |  |  |  |  |  | | |  | | 26 | 17 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 9 | ობიექტზე ორიენტირებული დაპროგრამება | სავალდებულო | 5 |  | 5 |  |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 10 | წრფივი ალგებრა | სავალდებულო | 5 |  |  | 5 |  |  |  |  | | |  | | 31 | 12 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 11 | ალგორითმები და მონაცემთა სტრუქტურები 1 | სავალდებულო | 6 |  |  | 6 |  |  |  |  | | |  | | 29 | 14 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 12 | პროგრამული უზრუნველყოფის შექმნა | სავალდებულო | 5 |  |  | 5 |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 13 | დისკრეტული მათემატიკა | სავალდებულო | 6 |  |  |  | 6 |  |  |  | | |  | | 29 | 14 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 14 | პროფესიული ინგლისური | სავალდებულო | 4 |  |  |  | 4 |  |  |  | | |  | | 31 | 12 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 15 | ოპერაციული სისტემები | სავალდებულო | 5 |  |  |  | 5 |  |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 16 | ალგორითმები და მონაცემთა სტრუქტურები 2 | სავალდებულო | 6 |  |  |  | 6 |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 17 | აკადემიური წერა | სავალდებულო | 5 |  |  |  |  | 5 |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 18 | კომპიუტერული მეცნიერებების თეორიული საფუძვლები | სავალდებულო | 6 |  |  |  |  | 6 |  |  | | |  | | 29 | 14 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 19 | ალბათობა და სტატისტიკა | სავალდებულო | 6 |  |  |  |  | 6 |  |  | | |  | | 29 | 14 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 20 | კომპიუტერული ქსელები | სავალდებულო | 4 |  |  |  |  | 4 |  |  | | |  | | 31 | 12 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 21 | პროგრამული უზრუნველყოფის ინჟინერია | სავალდებულო | 5 |  |  |  |  |  | 5 |  | | |  | | 30 | 13 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 22 | ხელოვნური ინტელექტი | სავალდებულო | 5 |  |  |  |  |  | 5 |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 23 | კომპიუტერული სისტემების უსაფრთხოება | სავალდებულო | 5 |  |  |  |  |  | 5 |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 24 | მანქანური სწავლება | სავალდებულო | 6 |  |  |  |  |  |  | 6 | | |  | | 29 | 14 | | 2 | 2 | 47 | | 103 | 150 | 3 | | 25 | პროგრამირების პარადიგმები | სავალდებულო | 5 |  |  |  |  |  |  | 5 | | |  | | 29 | 14 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 26 | სტაჟირება | სავალდებულო | 7 |  |  |  |  |  |  | 7 | | |  | | - | 139 | | 2 | 2 | 143 | | 32 | 175 |  | | 27 | სემინარი | სავალდებულო | 4 |  |  |  |  |  |  | 4 | | |  | | 14 | - | | 1 | - | 15 | | 85 | 100 | 1 | | 28 | საბაკალავრო ნაშრომი | სავალდებულო | 10 |  |  |  |  |  |  |  | | | 10 | |  | 28 | | 1 | 1 | 30 | | 220 | 250 |  | | 29 | კომპიუტერული უნარები | არჩევითი | 4 | 4 |  |  |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 30 | ვებ დაპროგრამება 1 | არჩევითი | 4 | 4 |  |  |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 31 | ვებ დაპროგრამება 2 | არჩევითი | 4 |  | 4 |  |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 32 | საინფორმაციო ტექნოლოგიების პროექტების მენეჯმენტი | არჩევითი | 4 |  | 4 |  |  |  |  |  | | |  | | 14 | 29 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 33 | გეოგრაფიულ ინფორმაციული სისტემები | არჩევითი | 4 |  | 4 |  |  |  |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 34 | ფრონტენდის პროგრამირება ანგულარის გამოყენებით | არჩევითი | 4 |  |  | 4 |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 35 | სამგანზომილებიანი გრაფიკა Blender-ში 1 | არჩევითი | 4 |  |  | 4 |  |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 36 | მონაცემთა ბაზების ადმინისტრირება | არჩევითი | 4 |  |  | 4 |  |  |  |  | | |  | | 14 | 29 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 37 | ბექენდის პროგრამირება | არჩევითი | 4 |  |  |  | 4 |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 38 | მობილური აპლიკაციების დაპროექტება და აგება | არჩევითი | 4 |  |  |  | 4 |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 39 | სამგანზომილებიანი გრაფიკა Blender-ში 2 | არჩევითი | 4 |  |  |  | 4 |  |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 40 | კომპიუტერული თამაშების დაპროგრამება | არჩევითი | 4 |  |  |  |  | 4 |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 41 | ვებ აპლიკაციების დაპროგრამება | არჩევითი | 4 |  |  |  |  | 4 |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 53 | 100 | 3 | | 42 | გამოყენებითი კრიპტოგრაფია | არჩევითი | 4 |  |  |  |  | 4 |  |  | | |  | | 14 | 30 | | 1 | 2 | 47 | | 53 | 100 | 3 | | 43 | დიფერენციალური განტოლებები | არჩევითი | 5 |  |  |  |  | 5 |  |  | | |  | | 15 | 28 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 44 | ვირტუალიზაციის ტექნოლოგია | არჩევითი | 5 |  |  |  |  |  | 5 |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 45 | სტატისტიკური ბიოინფორმატიკა | არჩევითი | 5 |  |  |  |  |  | 5 |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 46 | ბუნებრივი ენის დამუშავება | არჩევითი | 5 |  |  |  |  |  | 5 |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 47 | პროგრამირება პითონზე | არჩევითი | 5 |  |  |  |  |  |  | 5 | | |  | | 29 | 14 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 48 | ნეირონული ქსელების საფუძვლები | არჩევითი | 5 |  |  |  |  |  |  | 5 | | |  | | 15 | 28 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 49 | ეთიკური ჰაკინგის და ქსელური უსაფრთხოების საფუძვლები | არჩევითი | 5 |  |  |  |  |  |  | 5 | | |  | | 14 | 29 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 50 | პროგრამირება მათლაბზე | არჩევითი | 5 |  |  |  |  |  |  |  | | | 5 | | 29 | 14 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 51 | უსადენო ტექნოლოგიები | არჩევითი | 5 |  |  |  |  |  |  |  | | | 5 | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 52 | ღრუბლოვანი გამოთვლები | არჩევითი | 5 |  |  |  |  |  |  |  | | | 5 | | 32 | 11 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 53 | დაპროგრამება არდუინოს პლატფორმაზე | არჩევითი | 5 |  |  |  |  |  |  |  | | | 5 | | 10 | 34 | | 1 | 2 | 47 | | 78 | 125 | 3 | | 54 | კომპიუტერული ხედვა | არჩევითი | 5 |  |  |  |  |  |  |  | | | 5 | | 29 | 14 | | 2 | 2 | 47 | | 78 | 125 | 3 | | 55 | კომპიუტერის არქიტექტურის გაღრმავებული კურსი | არჩევითი | 5 |  |  |  |  | 5 |  |  | | |  | | 28 | 15 | | 2 | 2 | 47 | | 78 | 125 | 3 | |  | თავისუფალი კრედიტები  (ინგლისური, რუსული, გერმანული, ფრანგული, ესპანური, თურქული) | არჩევითი | 43  (15) | 5  5 | 5  5 | 6  5 | 5 | 4 | 5 | 3 | | | 10 | | - | -- | | - | - | - | | - | 1075 | - | | **სულ** | |  | **240** | **30** | **30** | **30** | **30** | **30** | **30** | **30** | | | **30** | | **919** | **768** | | **73** | **73** | **1833** | | **3092** | **6000** | **106** | |  |  |  |