**Teme licenta/disertatie – Valeriu Beiu**

1. Polinoame Bernstein, triunghiul lui Pascal si curbe Bezier

Necesita programare in Matlab

<https://www.mathworks.com/products/matlab.html>

1. Estimarea fiabilitatii retelelor de tip hamac in 3D

Necesita programare in Matlab

<https://www.mathworks.com/products/matlab.html>

1. Balansarea retelelor consecutive circulare (canale de ioni) cu hamace 3D (microtubule)

Necesita programare in Matlab

<https://www.mathworks.com/products/matlab.html>

1. Evaluarea pachetului Parallel Computing de la Matlab

Necesita programare paralela in Matlab

<https://www.mathworks.com/products/matlab.html>

<https://www.mathworks.com/products/parallel-computing.html>

1. Simulari Monte Carlo pentru analiza variatiilor retelelor de rezistente

Necesita programare in Micro-Cap/Spice si Matlab

<http://www.spectrum-soft.com/index.shtm>

<https://www.mathworks.com/products/matlab.html>

1. Analiza comparativa a retelor de FinFET, GAAFET, MBCFET (RibbonFET, Nanosheet, Forksheet)

Necesita programare in Micro-Cap, HSPICE si Matlab

<http://www.spectrum-soft.com/index.shtm>

<https://www.synopsys.com/implementation-and-signoff/ams-simulation/primesim-hspice.html>

<https://www.mathworks.com/products/matlab.html>