

Annex 2 – Study schedule of the master program Nanobiophysics

defining type and scope of the courses (in SWS) as well as number of exam requirements whose type, scope and organisation are specified in the module descriptions.

Track Molecular Biophysics

| Number of Module | Title of Module | 1. Semester | 2. Semester | 3. Semester | 4. Semester | Credits |
|----------------------|---|----------------|----------------|------------------------------|----------------------|------------|
| | | L/E/S/P/T | L/E/S/P/T | L/E/S/P/T | L/E/S/P/T | |
| BT-NB 1.1 | Fundamentals of Biophysics | 4/0/2/1/0 3xPL | | | | 10 |
| BT-NB 1.2 | Structural and Computational Biology | 2/0/2/0/0 2xPL | | | | 4 |
| BT-NB 1.3 | Introduction to Biochemistry and Molecular Cell Biology | 2/0/0/2/0 2xPL | 2/1/0/0/1 1xPL | | | 10 |
| BT-NB 1.4 | Elements of Nanobiotechnology | 2/0/2/1/0 3xPL | | | | 6 |
| BT-NB 1.5 | Concepts of Molecular Modelling | 2/2/0/2/0 2xPL | | | | 6 |
| BT-NB 2.1 | Applied Nanotechnology | | 4/0/2/0/0 2xPL | | | 7 |
| BT-NB 2.2 | Nanostructured Materials | | 2/2/0/2/0 2xPL | | | 6 |
| BT-NB 2.3 | Advanced Biophysics | | 2/2/0/0/0 1xPL | 2/0/2/0/0 2 Wochen P 3xPL | | 12 |
| BT-NB 2.4 | Microsystems and Bioinspired Structures | | 2/0/0/2/0 2xPL | | | 5 |
| BT-NB 3.1 | Lab Rotation Biophysics | | | 2 Wochen P 1xPL | | 6 |
| BT-NB 3.2 | Lab Rotation Nanophysics | | | 2 Wochen P 1xPL | | 6 |
| BT-NB 3.3 | Lab Rotation Choice | | | 2 Wochen P 1xPL | | 6 |
| | | | | | Master thesis | 29 |
| | | | | | defense | 1 |
| Total credits | | 31 | 29 | 30 | 30 | 120 |

SWS: Semesterwochenstunden (hours per week, 1SWS=45 min per week over the whole semester), PL: Prüfungsleistung (examination)

L: Lecture, E: Exercise, S: Seminar, P: Practical, T: Tutorial

Track Nanoscience and Nanotechnology

| Number of Module | Title of Module | 1. Semester* | 2. Semester* | 3. Semester | 4. Semester | Credits |
|--|---|--------------|--------------|-----------------|----------------------|------------|
| | | L/E/S/P/T | L/E/S/P/T | L/E/S/P/T | L/E/S/P/T | |
| BT-NB E2 | Biological Oriented Module | | | 4/0/0/0 2xPL | | 6 |
| BT-NB E5 | Broadening Module | | | 6/0/0/0 PL*** | | 9 |
| Spezialisierung Biophysics** | | | | | | |
| BT-NB 3.1 | Lab Rotation Biophysics | | | 2 Wochen P 1xPL | | 6 |
| BT-NB E1 | Molecular Biophysics | | | 4/2/2/2 1xPL | | 9 |
| Spezialisierung Nanoelectronics** | | | | | | |
| BT-NB E3 | Nanooptics and Magnetism on the Nanoscale | | | 4/0/0/0 1xPL | | 6 |
| BT-NB E4 | Molecular Electronics | | | 2/2/2/0 2xPL | | 9 |
| | | | | | Master thesis | 29 |
| | | | | | defense | 1 |
| Total credits | | 30 | 30 | 30 | 30 | 120 |

* 1st year at KU Leuven

** students choose 1 out of the 2 specialisation options

*** according to the catalogue

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