

Curriculum

1

st

Semester

Code

Course Title

ECTS

1

LSI101

Life at the cellular level:principles of cell and molecular biology

5

2

LSI102

Principles of Pathophysiology and Therapeutics

5

3

LSI103

Introduction to Programming

6

4

LSI104

Mathematics and Tools for biomedical data analysis I

6

5

LSI105

Principles of Statistics & Data Analysis

6

6

LSI106

Seminar Series I

2

Total:

30

2

nd

Semester

Code

Course Title

ECTS

1

LSI201

Artificial Intelligence, Machine Learning and applications

5

2

LSI202

Mathematics and Tools for biomedical data analysis II

5

3

LSI203

Introduction to Biomedical Database design, implementation and information retrieval

5

4

LSI204

Seminar Series II

2

Specialization (Elective Stream)

Bioinformatics

5.1

LSI205

Bioinformatics I

8

6.1

LSI206

Genes and Genomes

5

Medical Informatics

5.2

LSI207

[M](#)edical Informatics I

8

6.2

LSI208

Health systems management and principles of medical practice

5

Total:

30

3

rd

Semester

Code

Course Title

ECTS

1

LSI301

Diploma Research

20

2

LSI302

Big Data Retrieval and processing

4

3

LSI303

Transferable Skills

2

Elective Stream:

Bioinformatics

4.1

LSI304

Bioinformatics II

4

Medical Informatics

4.2

LSI305

Medical Informatics II

4

Total:

30