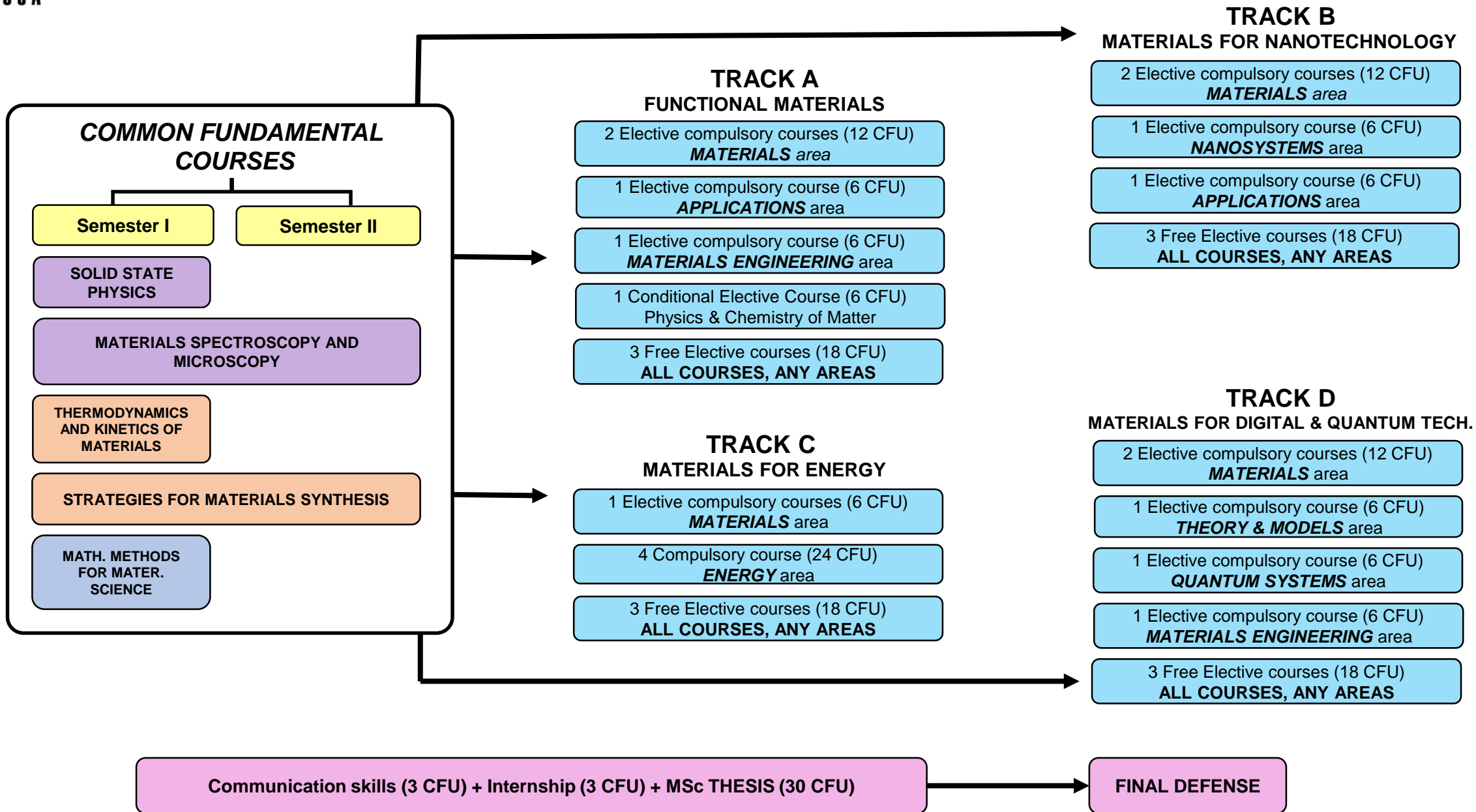


MSc COURSE IN MATERIALS SCIENCE & NANOTECHNOLOGY 2023-2024



TRACK A
ELECTIVE COURSES

***MATERIALS* area**

- CHEMISTRY OF INORGANIC MATERIALS
- CHEMISTRY OF MOLECULAR MATERIALS
- PHYSICAL CHEMISTRY OF SOLIDS
- PHYSICS OF SEMICONDUCTORS
- METALS SCIENCE AND SUSTAINABILITY

***APPLICATIONS* area**

- CHEMISTRY & TECHNOLOGY OF POLYMERS & INDUSTRIAL APPLICATIONS
- APPLICATIONS OF MATERIALS FOR IONIZING RADIATION DETECTION
- LOW ENVIRONMENTAL IMPACT MATERIALS AND PROCESSES
- MOLECULAR ELECTRONICS AND PHOTONICS

***MATERIALS ENGINEERING* area**

- ADVANCED FUNCTIONAL POLYMERS
- ENGINEERED NANOMATERIALS

TRACK B
ELECTIVE COURSES

***MATERIALS* area**

- CHEMISTRY OF INORGANIC MATERIALS
- CHEMISTRY OF MOLECULAR MATERIALS
- PHYSICAL CHEMISTRY OF SOLIDS
- PHYSICS OF SEMICONDUCTORS
- METALS SCIENCE AND SUSTAINABILITY

***APPLICATIONS* area**

- CHEMISTRY & TECHNOLOGY OF POLYMERS & INDUSTRIAL APPLICATIONS
- APPLICATIONS OF MATERIALS FOR IONIZING RADIATION DETECTION
- LOW ENVIRONMENTAL IMPACT MATERIALS AND PROCESSES
- MOLECULAR ELECTRONICS AND PHOTONICS

***NANOSYSTEMS* area**

- NANOTECHNOLOGY & INNOVATION
- NANO CHEMISTRY AND NANOPOROUS MATERIALS
- PHYSICS OF SOFT MATTER NANOSTRUCTURES
- ENGINEERED NANOMATERIALS

TRACK C
ELECTIVE COURSES

***MATERIALS* area**

- CHEMISTRY OF INORGANIC MATERIALS
- CHEMISTRY OF MOLECULAR MATERIALS
- PHYSICAL CHEMISTRY OF SOLIDS
- PHYSICS OF SEMICONDUCTORS
- METALS SCIENCE AND SUSTAINABILITY

***ENERGY* area**

- FUNDAMENTALS OF ELECTROCHEMISTRY FOR ENERGY STORAGE
- CATALYSIS FOR ENERGY AND THE ENVIRONMENT
- MODELS AND MATERIALS FOR ELECTROCHEMICAL ENERGY GENERATION AND CONVERSION
- ENERGETICS
- PHOTOVOLTAICS & OTHER RENEWABLE ENERGY TECHNOLOGIES

TRACK D
ELECTIVE COURSES

***MATERIALS* area**

- PHYSICAL CHEMISTRY OF SOLIDS
- PHYSICS OF SEMICONDUCTORS

***MATERIALS ENGINEERING* area**

- PHYSICS AND TECHNOLOGY OF ELECTRONIC DEVICES
- QUANTUM ELECTRONICS

***THEORY & MODELS* area**

- ADVANCED SOLID STATE PHYSICS
- COMPUTATIONAL MATERIALS SCIENCE

***QUANTUM SYSTEMS* area**

- QUANTUM MATERIALS SYNTHESIS
- QUANTUM PHOTONICS