



MATERIALS AND NANOTECHNOLOGY ENGINEERING MSc Program (with Thesis)

| REMEDIAL COURSES | | | | |
|---------------------------------|-------------|--|------------|-------------|
| Dept. | Code | Course Name | CR. | ECTS |
| MSN | 220 | Materials Characterization I | NC | |
| MSN | 230 | Transport Phenomena | NC | |
| MSN | 240 | Phase Diagrams | NC | |
| MSN | 223 | Mechanical Behavior of Materials | NC | |
| MSN | 321 | Materials Characterization II | NC | |
| MSN | 301 | Materials Production Processes-I | NC | |
| MSN | 302 | Materials Production Processes-II | NC | |
| PROGRAM COURSES | | | | |
| Dept. | Code | Course Name | CR. | ECTS |
| MSN | 500 | Fundamentals of Materials Science | 3 | 10 |
| MSN | 502 | Fundamentals of Nanoscience and Nanotechnology | 3 | 10 |
| MSN | 501 | Methods in Scientific Research | 3 | 10 |
| | | Departmental Elective I | | |
| | | Departmental Elective II | 3 | 10 |
| | | Departmental Elective III | 3 | 10 |
| | | Departmental Elective IV | 3 | 10 |
| MSN | 590 | Research Seminar | NC | 2 |
| MSN | 600 | MSc Thesis | NC | 60 |
| | | TOTAL | 21 | 132 |
| EXTRA/NON-DEGREE COURSES | | | | |
| Dept. | Code | Course Name | CR. | ECTS |
| | | Extra/Non-degree | NC | |

| Course Group | Description |
|----------------------------|---|
| Departmental Elective I-IV | Materials and Nanotechnology courses under the GSNAS |
| Extra/Non-degree | Optional non-credit (NC) courses that are not part of the program |
| Remedial Courses | Undergraduate level courses offered by department. |