STUDY PLAN

| **FIRST YEAR** | |
|---|---|
| STRUCTURAL MATERIALS<br>-CERAMICS AND GLASSES<br>-SUSTAINABLE POLYMERIC MATERIALS & LAB | 12 |
| CONDENSED MATTER PHYSICS | 9 |
| STATISTICS AND CHEMOMETRICS FOR MATERIALS SCIENCE | 6 |
| ADVANCED SYNTHESIS OF SUSTAINABLE MOLECULAR MATERIALS & LAB | 6 |
| STUDENT'S CHOICE FROM MENU 1A* | 6-18 |
| STUDENT'S CHOICE FROM MENU 1B** | 0-12 |
| STUDENT'S FREE CHOICE | 0-12 |

| **SECOND YEAR** | |
|---|---|
| COMPUTATIONAL MATERIALS SCIENCE & LAB | 6 |
| PHYSICAL CHARACTERIZATION OF ENERGY MATERIALS | 6 |
| STUDENT'S CHOICE FROM MENU 2A* | 0-12 |
| STUDENT'S CHOICE FROM MENU 2B** | 0-12 |
| STUDENT'S FREE CHOICE | 12 |
| SAFETY AND JOB PLACEMENT | 1 |
| INTERNSHIP AND FINAL DISSERTATION | 32 |

*TOTAL CFUs FROM MENUs 1A + 2A = 18

** TOTAL CFUs FROM MENUs 1B + 2B = 12

TOTAL CFUs FOR STUDENT'S FREE CHOICE = 12

| **MENU 1A** | | **MENU 2A** | |
|---|---|---|---|
| CHEMICAL SENSORS BASED ON ADVANCED AND SUSTAINABLE FUNCTIONAL MATERIALS | 6 | ORGANIC SUSTAINABLE MATERIALS AND NANOMATERIALS | 6 |
| MOLECULAR FUNCTIONAL MATERIALS | 6 | MATERIALS PHYSICS & TECHNOLOGY | 6 |
| MATERIALS-BY-DESIGN LAB | 6 | | |
| CATALYTIC TECHNOLOGIES FOR SUSTAINABILITY | 6 | | |
| CARBON-BASED NANOSTRUCTURES | 6 | | |
| LAB OF MOLECULAR NANOTECHNOLOGY | 6 | | |

| **MENU 1B** | | **MENU 2B** | |
|---|---|---|---|
| GEOMATERIALS FOR SUSTAINABILITY | 6 | ARTIFICIAL INTELLIGENCE FOR MATERIAL SCIENCE | 6 |
| PLANT-BASED SUSTAINABLE MATERIALS | 6 | APPLIED BIOTECHNOLOGIES FOR SUSTAINABLE MATERIALS | 6 |

| | | |
|---|---|---|
| MATERIALS FOR ADDITIVE MANUFACTURING<br>-METALLIC MATERIALS FOR ADDITIVE MANUFACTURING<br>-POLYMER MATERIALS FOR ADDITIVE MANUFACTURING | 6 | |