



UNIVERSIDAD
METROPOLITANA
SISTEMA UNIVERSITARIO
ANA G. MÉNDEZ

SISTEMA UNIVERSITARIO ANA G. MÉNDEZ
UNIVERSIDAD METROPOLITANA
SCHOOL OF ENVIRONMENTAL AFFAIRS
CERTIFICATE IN PHOTONICS & LASERS TECHNICAL SPECIALIST

COURSE SEQUENCE

| CODE | TITLE | REQUISITE | CR | HOURS Lecture/ Lab |
|--------------------------------|---|--------------------|-----------|--------------------------|
| FIRST PART OF TERM | | | | |
| OPSC 100 | Mathematics for Optics and Photonics | | 3 | 45 |
| ENGL 103 | Introductory English Language Course | | 3 | 45 |
| OPSC 101 | Fundamentals of Light and Lasers | | 5 | 45/60 |
| Total 1st PT | | | 11 | 195 |
| SECOND PART OF TERM | | | | |
| ENMA 101 | Introduction to Entrepreneurship | | 3 | 45 |
| OPSC 102 | Laser Systems and Applications I | OPSC 100, OPSC 101 | 4 | 30/45 |
| OPSC 110 | Electronics for Optics and Photonics I | OPSC 100 | 5 | 45/45 |
| Total 2nd PT | | | 12 | 210 |
| THIRD PART OF TERM | | | | |
| OPSC 120 | Industry Technical Internship | OPSC 102, OPSC 110 | 5 | 400 |
| Total 3rd PT | | | 5 | 400 |
| FOURTH PART OF TERM | | | | |
| OPSC 103 | Laser Systems and Applications II | OPSC 102 | 4 | 30/30 |
| OPSC 104 | Photonic-Enabled Technologies | OPSC 102 | 3 | 30/30 |
| OPSC 111 | Electronics for Optics and Photonics II | OPSC 110 | 5 | 45/30 |
| Total 4th PT | | | 12 | 195 |
| TOTAL | | | 40 | 1,000 |

Note: Laboratories will be given at the PRPI laboratory facilities at the Interior REDI Building in Barceloneta.



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CURRICULAR PROGRAM

| CODE | TITLE | REQUISITE | CR | HOURS Lecture/Lab |
|--------------------------------------|---|--------------------|-----------|------------------------------|
| GENERAL EDUCATION COURSES | | | | |
| ENMA 101 | Introduction to Entrepreneurship | | 3 | 45 |
| ENGL 103 | Introductory English Language Course | | 3 | 45 |
| CERTIFICATE TECHNICAL COURSES | | | | |
| OPSC 100 | Mathematics for Optics and Photonics | | 3 | 45 |
| OPSC 101 | Fundamentals of Light and Lasers | | 5 | 45/60 |
| OPSC 102 | Laser Systems and Applications I | OPSC 100, OPSC 101 | 4 | 30/45 |
| OPSC 103 | Laser Systems and Applications II | OPSC 102 | 4 | 30/30 |
| OPSC 104 | Photonic-Enabled Technologies | OPSC 102 | 3 | 30/30 |
| OPSC 110 | Electronics for Optics and Photonics I | OPSC 100 | 5 | 45/45 |
| OPSC 111 | Electronics for Optics and Photonics II | OPSC 110 | 5 | 45/30 |
| INTERNSHIP | | | | |
| OPSC 120 | Industry Technical Internship | OPSC 102, OPSC 110 | 5 | 400 |

Note: Laboratories will be given at the PRPI laboratory facilities at the Interior REDI Building in Barceloneta.