

## Electrical Engineering Major Sensors & Smart Systems

| Programme                                             | EC |
|-------------------------------------------------------|----|
| Year 1                                                | 60 |
| □ Semester 1                                          | 30 |
| ▫ ELVP22PRJ1 - Project 1                              | 5  |
| ▫ ELVP22AE1 - Circuit Analysis and Electronics 1      | 5  |
| ▫ ELVP22APH - Applied Physics                         | 5  |
| ▫ ELVP22DE - Digital Electronics                      | 5  |
| ▫ ELVP22EMP - Embedded Programming                    | 5  |
| ▫ ELVP22PUY1 - Power Up Yourself 1                    | 5  |
| □ Semester 2                                          | 30 |
| □ Semester 2                                          | 25 |
| ▫ ELVP22PRJ2 - Project 2                              | 5  |
| ▫ ELVP22AE2 - Circuit Analysis and Electronics 2      | 5  |
| ▫ ELVP22AMAT - Applied Mathematics                    | 5  |
| ▫ ELVP22PLC - PLC Programming                         | 5  |
| ▫ ELVP22PUY2 - Power Up Yourself 2                    | 5  |
| □ Elective                                            | 5  |
| <i>selection of following courses</i>                 |    |
| ▫ ELVP22SET - Sustainable Energy Technology           | 5  |
| ▫ ELVP22AMEC - Applied Mechanics                      | 5  |
| ▫ ELVP25SPA - Sensor Principles and Applications      | 5  |
| Year 2                                                | 60 |
| □ Monitoring and Control                              | 30 |
| ▫ ELVB24DSYS - Drive systems                          | 15 |
| ▫ ELVB25CSYS - Control systems                        | 15 |
| □ Signal Processing/Robotics with noisy data          | 30 |
| ▫ ELVB25DCDP - Data Communication and Data Processing | 15 |
| ▫ ELVB25ROB - Robotics                                | 15 |
| Year 3 Electrical Engineering major Sensor Technology | 30 |
| □ Internship                                          | 30 |
| ▫ ELVB24STG - Internship                              | 30 |
| Year 4                                                | 90 |
| □ Electives                                           | 60 |
| <i>electives</i>                                      |    |
| □ Graduation                                          | 30 |
| ▫ ELVB24GRAD - Graduation Project                     | 30 |