

## Master 1 Electrical Control timetable

|           | 8:00 — 09:30              | 09:30 — 11:00             | 11:00 — 12:30             | 12:30 — 14:00          | 14:00 — 15:30                        | 15:30 — 17:00          |
|-----------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------------------|------------------------|
| SATURDAY  |                           |                           |                           |                        | MEC77<br>COURSE<br>Distance learning |                        |
| Sunday    | MEC71<br>COURS<br>A17     |                           | MEC75<br>COURSE<br>A17    |                        | TEC72<br>PW<br>CR01                  | TEC74<br>PW<br>CR01    |
| Monday    | TEC71<br>PW<br>CR01       | TEC73<br>PW<br>CR01       |                           | MEC72<br>COURSE<br>A17 | MEC73<br>COURS<br>A17                |                        |
| Tuesday   |                           |                           |                           |                        |                                      | MEC74<br>COURSE<br>A17 |
| Wednesday | MEC71<br>Tutorials<br>R01 | MEC72<br>Tutorials<br>R01 | MEC74<br>Tutorials<br>R01 |                        | MEC75<br>Tutorials<br>R01            | MEC76<br>COURS<br>A18  |
| Thursday  |                           |                           | TEC75<br>PW<br>MA2 LAB    | TEC75<br>PW<br>MA2 LAB | MEC76<br>PW<br>CR01                  |                        |

| Subject title                                           | Coded | TU | Cr | Co | COURSE          | Tutorials      | PW              |
|---------------------------------------------------------|-------|----|----|----|-----------------|----------------|-----------------|
| Electric energy transmission and distribution networks  | MEC71 | F  | 4  | 2  | M. KADRI M.     | M. KADRI M.    |                 |
| Advanced power electronics                              | MEC72 | F  | 4  | 2  | Pr. BOUAFIA A.  | Pr. BOUAFIA A. |                 |
| Microprocessors and microcontrollers                    | MEC73 | F  | 2  | 1  | Dr. BOUKETIR O. |                |                 |
| Advanced electrical machines                            | MEC74 | F  | 4  | 2  | Dr. AMRANE F.   | Dr. AMRANE F.  |                 |
| Applied numerical methods & optimization                | MEC75 | F  | 4  | 2  | Pr. SLIMANI L.  | Pr. SLIMANI L. |                 |
| PW: Microprocessors and microcontrollers                | TEC71 | M  | 1  | 1  |                 |                | Dr. BOUKETIR O. |
| PW: Electric energy transport and distribution networks | TEC72 | M  | 2  | 1  |                 |                | Pr. SAYAH S     |
| PW: Advanced power electronics                          | TEC73 | M  | 2  | 1  |                 |                | Pr. BOUAFIA A.  |
| PW: Applied numerical methods & optimization            | TEC74 | M  | 2  | 1  |                 |                | Pr. SLIMANI L.  |
| PW: Advanced electrical machines                        | TEC75 | M  | 2  | 1  |                 |                | Dr. AMRANE F    |
| Advanced programming in Python                          | MEC76 | M  | 2  | 2  | Dr.KAHIA H      |                | Dr.KAHIA H      |
| Renewable energies                                      | MEC77 | D  | 1  | 1  | Dr. MANA H.     |                |                 |

## Master 1 Electrical Networks timetable

|           | 8:00 — 09:30                       | 09:30 — 11:00                      | 11:00 — 12:30                      | 12:30 — 14:00                   | 14:00 — 15:30                                 | 15:30 — 17:00                   |
|-----------|------------------------------------|------------------------------------|------------------------------------|---------------------------------|-----------------------------------------------|---------------------------------|
| SATURDAY  |                                    |                                    |                                    |                                 | <b>MER77<br/>COURSE<br/>Distance learning</b> |                                 |
| Sunday    | <b>MER71<br/>COURSE<br/>A17</b>    |                                    | <b>MER75<br/>COURSE<br/>A17</b>    |                                 | <b>TER74<br/>PW<br/>CR02</b>                  | <b>TER72<br/>PW<br/>CR02</b>    |
| Monday    | <b>TER73<br/>PW<br/>CR02</b>       | <b>TER71<br/>PW<br/>CR02</b>       |                                    | <b>MER72<br/>COURSE<br/>A17</b> | <b>MER73<br/>COURS<br/>A17</b>                |                                 |
| Tuesday   |                                    | <b>TER75<br/>PW<br/>MA2 LAB</b>    | <b>TER75<br/>PW<br/>MA2 LAB</b>    |                                 | <b>MER76<br/>PW<br/>CR02</b>                  | <b>MER74<br/>COURSE<br/>A17</b> |
| Wednesday | <b>MER72<br/>Tutorials<br/>R02</b> | <b>MER71<br/>Tutorials<br/>R02</b> | <b>MER75<br/>Tutorials<br/>R02</b> |                                 | <b>MER74<br/>Tutorials<br/>R02</b>            | <b>MER76<br/>COURSE<br/>A18</b> |
| Thursday  |                                    |                                    |                                    |                                 |                                               |                                 |

| Subject title                                           | Coded | TU | Cr | Co | COURSE          | Tutorials      | PW              |
|---------------------------------------------------------|-------|----|----|----|-----------------|----------------|-----------------|
| Electric energy transmission and distribution networks  | MER71 | F  | 4  | 2  | M. KADRI M.     | M. KADRI M.    |                 |
| Advanced power electronics                              | MER72 | F  | 4  | 2  | Pr. BOUAFIA A.  | Pr. BOUAFIA A. |                 |
| Microprocessors and microcontrollers                    | MER73 | F  | 2  | 1  | Dr. BOUKETIR O. |                |                 |
| Advanced electrical machines                            | MER74 | F  | 4  | 2  | Dr. AMRANE F.   | Dr. AMRANE F.  |                 |
| Applied numerical methods & optimization                | MER75 | F  | 4  | 2  | Pr. SLIMANI L.  | Pr. SLIMANI L. |                 |
| PW: Microprocessors and microcontrollers                | TER71 | M  | 1  | 1  |                 |                | Dr. BOUKETIR O. |
| PW: Electric energy transport and distribution networks | TER72 | M  | 2  | 1  |                 |                | Pr SAYAH S      |
| PW: Advanced power electronics                          | TER73 | M  | 2  | 1  |                 |                | Pr. BOUAFIA A.  |
| PW: Applied numerical methods & optimization            | TER74 | M  | 2  | 1  |                 |                | Pr. SLIMANI L.  |
| PW: Advanced electrical machines                        | TER75 | M  | 2  | 1  |                 |                | Dr. AMRANE F    |
| Advanced Programming in Python                          | MER76 | M  | 2  | 2  | Dr.KAHIA H      |                | Dr.KAHIA H      |
| Renewable energies                                      | MER77 | D  | 1  | 1  | Dr. MANA H.     |                |                 |

## Master 1 Industrial Electrotechnics timetable

|           | 8:00 — 09:30              | 09:30 — 11:00              | 11:00 — 12:30             | 12:30 — 14:00          | 14:00 — 15:30                        | 15:30 — 17:00          |
|-----------|---------------------------|----------------------------|---------------------------|------------------------|--------------------------------------|------------------------|
| Saturday  |                           |                            |                           |                        | MEI77<br>COURSE<br>Distance learning |                        |
| Sunday    | TEI71<br>PW<br>CR01       | TEI72<br>PW<br>CR01        |                           | MEI71<br>Course<br>A17 | MEI73<br>Course<br>A17               | MEI76<br>Course<br>A17 |
| Monday    |                           |                            |                           |                        | MEI76<br>PW<br>CR01                  |                        |
| Tuesday   | TEI74<br>PW<br>CR01       | TEI73<br>PW<br>RE LAB/CR01 |                           | TEI75<br>PW<br>MA2 LAB | TEI75<br>PW<br>MA2 LAB               |                        |
| Wednesday | MEI71<br>Tutorials<br>R03 | MEI72<br>Tutorials<br>R03  | MEI74<br>Tutorials<br>R03 |                        | MEI75<br>Tutorials<br>R03            |                        |
| Thursday  | MEI75<br>Course<br>A17    | MEI72<br>Course<br>A17     | MEI74<br>Course<br>A17    |                        |                                      |                        |

| Subject title                                           | Coded | TU | Cr | Co | COURSE           | Tutorials        | PW               |
|---------------------------------------------------------|-------|----|----|----|------------------|------------------|------------------|
| Electric energy transmission and distribution networks  | MEI71 | F  | 4  | 2  | M. SAHLI Z.      | M. SAHLI Z.      |                  |
| Advanced power electronics                              | MEI72 | F  | 4  | 2  | Dr. MOUSSAOUI L. | Dr. MOUSSAOUI L. |                  |
| Microprocessors and microcontrollers                    | MEI73 | F  | 2  | 1  | Mme. BEGAG S.    |                  |                  |
| Advanced electrical machines                            | MEI74 | F  | 4  | 2  | Pr. RADJELI H.   | Pr. RADJELI H.   |                  |
| Applied numerical methods & optimization                | MEI75 | F  | 4  | 2  | Pr. NOURI H.     | Pr. NOURI H.     |                  |
| PW: Microprocessors and microcontrollers                | TEI71 | M  | 1  | 1  |                  |                  | Mme. BEGAG S.    |
| PW: Electric energy transport and distribution networks | TEI72 | M  | 2  | 1  |                  |                  | M. SAHLI Z.      |
| PW: Advanced power electronics                          | TEI73 | M  | 2  | 1  |                  |                  | Dr. MOUSSAOUI L. |
| PW: Applied numerical methods & optimization            | TEE74 | M  | 2  | 1  |                  |                  | Pr. NOURI H.     |
| PW: Advanced electrical machines                        | TEI75 | M  | 2  | 1  |                  |                  | Dr. BOUSSADIA F. |
| Advanced Programming in Python                          | MEI76 | M  | 2  | 2  | BACHTOUTI A      |                  | BACHTOUTI A      |
| Renewable energies                                      | MEI77 | D  | 1  | 1  | Dr. LOUAREM S.   |                  |                  |

## Master 1 Renewable Energies timetable

|           | 8:00 — 09:30               | 09:30 — 11:00             | 11:00 — 12:30             | 12:30 — 14:00          | 14:00 — 15:30                                | 15:30 — 17:00          |
|-----------|----------------------------|---------------------------|---------------------------|------------------------|----------------------------------------------|------------------------|
| Saturday  |                            |                           |                           |                        | <b>MEE77<br/>COURSE</b><br>Distance learning |                        |
| Sunday    | TEE72<br>PW<br>CR02        | TEE71<br>PW<br>CR02       |                           | MEE71<br>Course<br>A17 | MEE73<br>Course<br>A17                       | MEE76<br>Course<br>A17 |
| Monday    |                            | TEE75<br>PW<br>MA2 LAB    | TEE75<br>PW<br>MA2 LAB    |                        |                                              | TEE76<br>PW<br>CR02    |
| Tuesday   | TEE73<br>PW<br>RE LAB/CR02 | TEE74<br>PW<br>CR02       |                           |                        |                                              |                        |
| Wednesday | MEE72<br>Tutorials<br>R04  | MEE71<br>Tutorials<br>R04 | MEE75<br>Tutorials<br>R04 |                        | MEE74<br>Tutorials<br>R04                    |                        |
| Thursday  | MEE75<br>Course<br>A17     | MEE72<br>Course<br>A17    | MEE74<br>Course<br>A17    |                        |                                              |                        |

| Subject title                                           | Coded | TU | Cr | Co | COURSE           | Tutorials        | PW               |
|---------------------------------------------------------|-------|----|----|----|------------------|------------------|------------------|
| Electric energy transmission and distribution networks  | MEE71 | F  | 4  | 2  | Dr. SAHLI Z.     | Dr. SAHLI Z.     |                  |
| Advanced power electronics                              | MEE72 | F  | 4  | 2  | Dr. MOUSSAOUI L. | Dr. MOUSSAOUI L. |                  |
| Microprocessors and microcontrollers                    | MEE73 | F  | 2  | 1  | Mme. BEGAG S.    |                  |                  |
| Advanced electrical machines                            | MEE74 | F  | 4  | 2  | Pr. RADJELI H.   | Pr. RADJELI H.   |                  |
| Applied numerical methods & optimization                | MEE75 | F  | 4  | 2  | Pr. NOURI H.     | Pr. NOURI H.     |                  |
| PW: Microprocessors and microcontrollers                | TEE71 | M  | 1  | 1  |                  |                  | Mme. BEGAG S.    |
| PW: Electric energy transport and distribution networks | TEE72 | M  | 2  | 1  |                  |                  | Dr. SAHLI Z.     |
| PW: Advanced power electronics                          | TEE73 | M  | 2  | 1  |                  |                  | Dr. MOUSSAOUI L. |
| PW: Applied numerical methods & optimization            | TEE74 | M  | 2  | 1  |                  |                  | Pr. NOURI H.     |
| PW: Advanced electrical machines                        | TEE75 | M  | 2  | 1  |                  |                  | GUETTAF N.       |
| Advanced Programming in Python                          | MEE76 | M  | 2  | 2  | BACHTOUTI A      |                  | BACHTOUTI A      |
| Renewable energies                                      | MEE77 | D  | 1  | 1  | Dr. LOUAREM S.   |                  |                  |

## Master 1 Green Hydrogen Energy Vector

|           | 8:00 — 09:30           | 09:30 — 11:00          | 11:00 — 12:30             | 12:30 — 14:00              | 14:00 — 15:30              | 15:30 — 17:00             |
|-----------|------------------------|------------------------|---------------------------|----------------------------|----------------------------|---------------------------|
| Saturday  |                        |                        |                           | Distance learning<br>MHV78 | Distance learning<br>MHV77 |                           |
| Sunday    |                        | THV71<br>PW<br>EP LAB  | THV72<br>PW<br>CR01       |                            | MHV74<br>Tutorials<br>R05  | MHV71<br>Tutorials<br>R05 |
| Monday    | MHV71<br>Course<br>R05 | MHV74<br>Course<br>R05 | MHV75<br>Course<br>R05    |                            | THV73<br>PW<br>CH LAB      | THV73<br>PW<br>CH LAB     |
| Tuesday   |                        |                        |                           | MHV75<br>Tutorials<br>R05  | MHV72<br>Course<br>R05     | MHV72<br>Tutorials<br>R05 |
| Wednesday | MHV76<br>COURSE<br>R05 | MHV73<br>COURSE<br>R05 | MHV73<br>Tutorials<br>R05 |                            |                            |                           |
| Thursday  |                        |                        |                           |                            |                            |                           |

| Subject title                               | Coded | TU | Cr | Co | COURSE                       | Tutorials                   | PW                 |
|---------------------------------------------|-------|----|----|----|------------------------------|-----------------------------|--------------------|
| Hydrogen and electrochemical systems        | MHV71 | F  | 4  | 2  | Dr. DERBEL S.                | Dr. DERBEL S.               |                    |
| Advanced power electronics                  | MHV72 | F  | 4  | 2  | Dr. BELHAOUCHET N.           | Dr. BELHAOUCHET N.          |                    |
| Sampled controls and digital regulation     | MHV73 | F  | 2  | 2  | Mme. BEGAG S.                | Mme. BEGAG S.               |                    |
| Energy systems and hydrogen chemistry       | MHV74 | F  | 4  | 2  | Dr. DERBEL S.                | Dr. DERBEL S.               |                    |
| Energy conversion                           | MHV75 | F  | 4  | 2  | Dr. CHELLAL / Dr. LOUAREM S. | Dr. CHELLAL/ Dr. LOUAREM S. |                    |
| Free and open source softwares              | MHV76 | M  | 3  | 2  | BACHTOUTI A                  |                             |                    |
| PW: Advanced power electronics              | THV71 | M  | 2  | 1  |                              |                             | Dr. BELHAOUCHET N. |
| PW: Sampled controls and digital regulation | THV72 | M  | 2  | 1  |                              |                             | Mme. BEGAG S.      |
| PW: Energy systems and hydrogen chemistry   | THV73 | M  | 2  | 1  |                              |                             | Dr. DERBEL S.      |
| Sustainable development and transition      | MHV77 | D  | 2  | 1  | Dr. ANNANE Z.                |                             |                    |
| Water quality in hydrogen production        | MHV78 | T  | 1  | 1  | Dr. CHELLAL                  |                             |                    |

## Master 2 Electrical Control timetable

|           | 8:00 — 09:30           | 09:30 — 11:00              | 11:00 — 12:30              | 12:30 — 14:00                        | 14:00 — 15:30                        | 15:30 — 17:00                         |
|-----------|------------------------|----------------------------|----------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| Saturday  |                        |                            |                            | MEC95<br>COURSE<br>Distance learning | MEC96<br>COURSE<br>Distance learning | MEC 97<br>COURSE<br>Distance learning |
| Sunday    |                        |                            | TEC91<br>PW<br>CR02        | MEC91<br>COURSE<br>R01               | TEC92<br>PW<br>AUT LAB               |                                       |
| Monday    |                        |                            | TEC94<br>PW<br>AUT LAB     | TEC94<br>PW<br>AUT LAB               |                                      |                                       |
| Tuesday   | MEC94<br>COURSE<br>R01 | MEC94<br>COURSE<br>R01     |                            |                                      | MEC91<br>COURSE<br>R01               | MEC91<br>Tutorials<br>R01             |
| Wednesday | MEC92<br>COURSE<br>R06 | TEC93<br>PW<br>CR02/RE LAB | TEC93<br>PW<br>CR02/RE LAB |                                      | TEC91<br>PW<br>CR02                  |                                       |
| Thursday  |                        | MEC93<br>COURSE<br>R01     | MEC93<br>Tutorials<br>R01  |                                      | MEC94<br>Tutorials<br>R01            |                                       |

| Subject title                                                                                | Coded | TU | Cr | Co | COURSE             | Tutorials         | PW                                      |
|----------------------------------------------------------------------------------------------|-------|----|----|----|--------------------|-------------------|-----------------------------------------|
| Nonlinear and advanced control                                                               | MEC91 | F  | 6  | 3  | 2*.Dr. DAILI Y.    | Dr. DAILI Y.      |                                         |
| Programmable Logic Controllers (PLCs)                                                        | MEC92 | F  | 2  | 1  | Pr. KHARCHOUCHE F. |                   |                                         |
| Artificial intelligence techniques                                                           | MEC93 | F  | 4  | 2  | Dr. BELKHIR K. S.  | Dr. BELKHIR K. S. |                                         |
| Electrical control of industrial mechanisms                                                  | MEC94 | F  | 6  | 3  | 2*Dr. HAMLIA H.    | Dr. HAMLIA H.     |                                         |
| PW: Nonlinear and advanced control                                                           | TEC91 | M  | 4  | 2  |                    |                   | Dr BOUROUBA B./Dr BAHIH                 |
| PW: API programming                                                                          | TEC92 | M  | 1  | 1  |                    |                   | Pr. KHARCHOUCHE F.                      |
| PW: Artificial intelligence techniques /<br>PW : Implementation of real-time digital control | TEC93 | M  | 2  | 1  |                    |                   | Dr. BELKHIR K.S./ Dr.<br>BELHAOUCHET N. |
| PW: Electrical control of industrial mechanisms                                              | TEC94 | M  | 2  | 1  |                    |                   | Vac                                     |
| Implementation of real-time digital control                                                  | MEC95 | T  | 1  | 1  | Dr. KOUADRI R.     |                   |                                         |
| Maintenance and operational safety                                                           | MEC96 | T  | 1  | 1  | BENDECHECHE N      |                   |                                         |
| Documentary research and design of<br>dissertation                                           | MEC97 | T  | 1  | 1  | Pr. RADJELAI H.    |                   |                                         |

## Master 2 Electrical Networks timetable

|           | 8:00 — 09:30            | 09:30 — 11:00             | 11:00 — 12:30             | 12:30 — 14:00                         | 14:00 — 15:30                         | 15:30 — 17:00                         |
|-----------|-------------------------|---------------------------|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Saturday  |                         |                           |                           | MER 97<br>COURSE<br>Distance learning | MER 98<br>COURSE<br>Distance learning | MER 99<br>COURSE<br>Distance learning |
| Sunday    | MER96<br>PW<br>ENET LAB | MER96<br>PW<br>ENET LAB   | MER94<br>COURSE<br>R02    | MER92<br>COURSE<br>R02                |                                       |                                       |
| Monday    | MER91<br>COURSE<br>R02  | MER95<br>COURSE<br>R02    | MER95<br>Tutorials<br>R02 |                                       | MER91<br>Tutorials<br>R02             | MER94<br>Tutorials<br>R02             |
| Tuesday   | MER96<br>COURSE<br>R02  | MER96<br>Tutorials<br>R02 |                           |                                       |                                       |                                       |
| Wednesday |                         |                           |                           |                                       |                                       | MER92<br>Tutorials<br>R02             |
| Thursday  | TER92<br>PW<br>CR01     | TER91<br>PW<br>CR01       | MER93<br>COURSE<br>R02    |                                       |                                       |                                       |

| Subject title                                                | Coded | TU | Cr | Co | COURSE          | Tutorials      | PW            |
|--------------------------------------------------------------|-------|----|----|----|-----------------|----------------|---------------|
| Operation of electrical networks                             | MER91 | F  | 4  | 2  | Dr. NEMDILI S.  | Dr. NEMDILI S. |               |
| Stability and dynamics of electrical networks                | MER92 | F  | 4  | 2  | M. KADRI M.     | M. KADRI M.    |               |
| Smart power grids                                            | MER93 | F  | 2  | 1  | Dr. NEMDILI S   |                |               |
| Integration of renewable resources into electricity networks | MER94 | F  | 4  | 2  | Dr. MERAHI F.   | Dr. MERAHI F.  |               |
| Industrial electrical networks                               | MER95 | F  | 4  | 2  | Pr. GHERBI A.   | Pr. GHERBI A.  |               |
| High voltage techniques                                      | MER96 | M  | 5  | 3  | Pr. BAYADI A.   | Pr. BAYADI A.  | Pr. BAYADI A. |
| PW: Stability and dynamics of electrical networks            | TER91 | M  | 2  | 1  |                 |                | M. KADRI M.   |
| PW: Industrial electrical networks                           | TER92 | M  | 2  | 1  |                 |                | Dr. MADANI L. |
| Artificial intelligence techniques                           | MER97 | D  | 1  | 1  | Pr. Slimani L.  |                |               |
| Industrial ecology and sustainable development               | MER98 | D  | 1  | 1  | Pr. BOUKETIR O. |                |               |
| Documentary research and design of dissertation              | MER99 | T  | 1  | 1  | Dr. MERAHI F.   |                |               |

## Master 2 Industrial Electrotechnics timetable

|           | 8:00 — 09:30           | 09:30 — 11:00          | 11:00 — 12:30             | 12:30 — 14:00                         | 14:00 — 15:30                         | 15:30 — 17:00                         |
|-----------|------------------------|------------------------|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Saturday  |                        |                        |                           | MEI 97<br>COURSE<br>Distance learning | MEI 98<br>COURSE<br>Distance learning | MEI 99<br>COURSE<br>Distance learning |
| Sunday    |                        |                        | MEI91<br>COURSE<br>R03    | MEI96<br>Tutorials<br>R03             |                                       |                                       |
| Monday    | MEI91<br>COURSE<br>R03 | MEI92<br>COURSE<br>R03 | MEI91<br>Tutorials<br>R03 |                                       | MEI94<br>COURSE<br>R03                | MEI94<br>Tutorials<br>R03             |
| Tuesday   | MEI95<br>COURSE<br>R03 |                        | MEI92<br>Tutorials<br>R03 |                                       | MEI93<br>COURSE<br>R03                | TEI92<br>PW<br>CR01                   |
| Wednesday |                        | TEI91<br>PW<br>AUT LAB | TEI91<br>PW<br>AUT LAB    |                                       | MEI96<br>PW<br>CR01                   | MEI96<br>COURSE<br>R03                |
| Thursday  |                        |                        |                           |                                       |                                       |                                       |

| Subject title                                   | Coded | TU | Cr | Co | COURSE            | Tutorials         | PW                |
|-------------------------------------------------|-------|----|----|----|-------------------|-------------------|-------------------|
| Transient regimes of electrical systems         | MEI91 | F  | 6  | 3  | 2* Pr. BAYADI A.  | Pr. BAYADI A.     |                   |
| Control of electrical systems                   | MEI92 | F  | 4  | 2  | Dr. HAML A H.     | Dr. HAML A H.     |                   |
| Artificial intelligence techniques              | MEI93 | F  | 2  | 1  | Dr. BELKHIR K. S. |                   |                   |
| Power quality and electromagnetic compatibility | MEI94 | F  | 4  | 2  | Dr. MANA H.       | Dr. MANA H.       |                   |
| Diagnosis of faults in electrical installations | MEI95 | F  | 2  | 1  | Dr. BOUSSADIA F.  |                   |                   |
| PW: Electrical systems control                  | TEI91 | M  | 2  | 1  |                   |                   | M. BOUSSOUAR M.Z. |
| PW: Artificial intelligence techniques          | TEI92 | M  | 2  | 1  |                   |                   | Dr. BELKHIR K. S. |
| Sizing of industrial systems                    | MEI96 | M  | 5  | 3  | M. BOUSSOUAR M.Z. | M. BOUSSOUAR M.Z. | M. BOUSSOUAR M.Z. |
| Implementation of real-time digital control     | MEI97 | D  | 1  | 1  | Dr. KOUADRI R.    |                   |                   |
| Industrial ecology and sustainable development  | MEI98 | D  | 1  | 1  | Pr. BOUKETIR O.   |                   |                   |
| Documentary research and design of dissertation | MEI99 | T  | 1  | 1  | Pr. RADJEL H.     |                   |                   |



## Master 2 Renewable Energies timetable

|           | 8:00 — 09:30              | 09:30 — 11:00             | 11:00 — 12:30          | 12:30 — 14:00                        | 14:00 — 15:30                        | 15:30 — 17:00                         |
|-----------|---------------------------|---------------------------|------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| Saturday  |                           |                           |                        | MEE96<br>COURSE<br>Distance learning | MEE97<br>COURSE<br>Distance learning | MEE 98<br>COURSE<br>Distance learning |
| Sunday    |                           |                           | MEE92<br>COURSE<br>R04 | MEE95<br>COURSE<br>R04               |                                      |                                       |
| Monday    | MEE94<br>COURSE<br>R04    | MEE94<br>Tutorials<br>R04 |                        |                                      | MEE95<br>Tutorials<br>R04            | TEE91                                 |
|           |                           |                           |                        |                                      |                                      | PW                                    |
|           |                           |                           |                        |                                      |                                      | CR01                                  |
| Tuesday   | MEE91<br>COURSE<br>R04    | MEE96<br>COURSE<br>R04    | MEE96<br>PW<br>CR01    |                                      | TEE92<br>PW<br>CR02                  | MEE91<br>Tutorials<br>R03             |
| Wednesday |                           |                           |                        |                                      |                                      |                                       |
| Thursday  | MEE93<br>Tutorials<br>R04 | MEE93<br>COURSE<br>R04    | TEE93<br>PW<br>CR02    |                                      |                                      |                                       |

| Subject title                                           | Coded | TU | Cr | Co | COURSE             | Tutorials         | PW                 |
|---------------------------------------------------------|-------|----|----|----|--------------------|-------------------|--------------------|
| Applications and sizing of renewable energy systems     | MEE91 | F1 | 4  | 2  | Pr. CHAOU I A.     | Pr. CHAOU I A.    |                    |
| Energy storage and fuel cell                            | MEE92 | F1 | 2  | 1  | Dr. AMROUNE M.     |                   |                    |
| Control of renewable energy systems                     | MEE93 | F1 | 4  | 2  | Mme. MOKHNACHE M.  | Mme. MOKHNACHE M. |                    |
| Multi-source renewable energy systems                   | MEE94 | F2 | 4  | 2  | Pr. HEMSAS K. E.   | Pr. HEMSAS K. E.  |                    |
| Integration of renewable energies into networks         | MEE95 | F2 | 4  | 2  | Dr. MERAHI F.      | Dr. MERAHI F.     |                    |
| PW : Applications and sizing of RE systems              | TEE91 | M  | 2  | 1  |                    |                   | GUETTAF S.         |
| PW : Energy storage                                     | TEE92 | M  | 1  | 1  |                    |                   | Dr. AMROUNE M.     |
| PW : Control of renewable energy systems                | TEE93 | M  | 2  | 1  |                    |                   | Mme. MOKHNACHE M.  |
| Maintenance and reliability of renewable energy systems | MEE96 | M  | 4  | 2  | M. BOUSSOUAR M. Z. |                   | M. BOUSSOUAR M. Z. |
| Electric vehicles                                       | MEE97 | D  | 2  | 2  | Pr. BOUKETIR O.    |                   |                    |
| Communication and project management                    | MEE98 | D  |    |    | Dr BEKTACHE A.     |                   |                    |
| Documentary research and design of Memory               | MEE99 | T  | 1  | 1  | Dr. MERAHI F.      |                   |                    |

## Master 2 Green Hydrogen Energy Vector

|           | 8:00 — 09:30                         | 09:30 — 11:00                        | 11:00 — 12:30                        | 12:30 — 14:00             | 14:00 — 15:30          | 15:30 — 17:00             |
|-----------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------|------------------------|---------------------------|
| Saturday  | MHV94<br>COURSE<br>Distance learning | MHV95<br>COURSE<br>Distance learning | MHV96<br>COURSE<br>Distance learning |                           |                        |                           |
| Sunday    | MHV92<br>COURSE<br>Salle bib         | MHV92<br>Tutorials<br>Salle bib      |                                      | MHV91<br>Tutorials<br>R05 |                        |                           |
| Monday    | MHV91<br>COURSE<br>R01               |                                      | THV91<br>PW<br>CR01                  |                           |                        |                           |
| Tuesday   |                                      |                                      | THV94<br>Course<br>R01               |                           |                        |                           |
| Wednesday |                                      |                                      |                                      |                           |                        |                           |
| Thursday  |                                      |                                      | THV92<br>PW<br>CR01                  | THV93<br>PW<br>CR01       | MHV93<br>COURSE<br>R05 | MHV92<br>Tutorials<br>R05 |

| Subject title                                                                                        | Coded  | TU | Cr | Co | COURSE                            | Tutorials   | PW             |
|------------------------------------------------------------------------------------------------------|--------|----|----|----|-----------------------------------|-------------|----------------|
| Multi-physics modeling and supervision of hybrid ER systems                                          | MHV91  | F  | 7  | 4  | Dr.ANNANE Z                       | Dr.ANNANE Z |                |
| Management of hybrid ER systems                                                                      | MHV92  |    |    |    | HEMSAS K.                         | HEMSAS K.   |                |
| Technical and economic study of hybrid ER and hydrogen systems                                       | MHV93  | M  | 2  | 1  | Dr. AMROUNE M.                    |             |                |
| PW : Multi-physics modeling and supervision of hybrid ER systems                                     | THV91  | M  | 2  | 1  |                                   |             | Vac            |
| PW: Management of hybrid ER systems                                                                  | THV92  | M  | 2  | 1  |                                   |             | HEMSAS K.      |
| PW : Technical and economic study of hybrid ER and hydrogen systems                                  | THV93  | M  | 2  | 1  |                                   |             | Dr. AMROUNE M. |
| Internships in companies (integrative project)                                                       | THV94  | M  | 3  | 2  | Responsable of the speciality MHV |             |                |
| Recycling and eco-design, Energy efficiency in buildings                                             | MHV 94 | D  | 1  | 1  | GUETTAF S.                        |             |                |
| Hybridization and smart grid technology, thermal management of SHENR, management of operating modes. | MHV95  | D  | 1  | 1  | Dr. MERAHI F                      |             |                |
| Language and Social and Legal Human Sciences                                                         | MHV96  | T  | 1  | 1  | Pr. BOUKETIR O.                   |             |                |