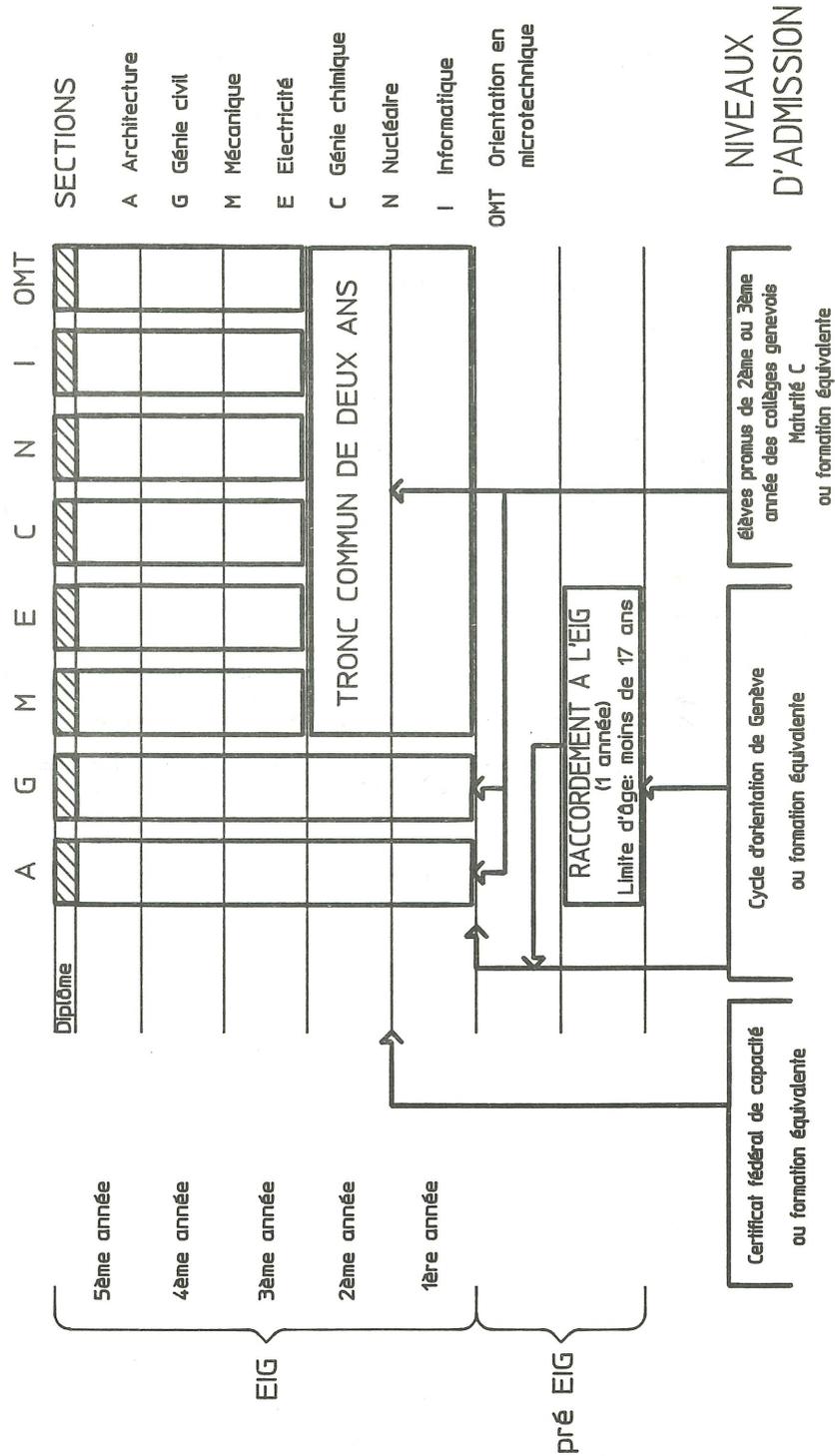


# ECOLE D'INGENIEURS DE GENEVE

## INFORMATION

# ECOLE D'INGENIEURS DE GENEVE - ETS



## PLAN D'ETUDES DE LA SECTION D'ARCHITECTURE - ETS

|  | SEMESTRE  | HEURES DE COURS PAR SEMAINE |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|---|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |   | 1                           |     | 2   |     | 3   |     | 4   |     | 5   |     | 6   |     | 7   |     | 8   |     | 9   |     | 10  |     |
|  |   | GEN                         | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. | GEN | OP. |
| CULTURE GENERALE & PROFESSIONNELLE       | FRANCAIS  | 2                           | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
|  | LANGUES   | 4                           | 4   | 4   | 4   | 2   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | SCIENCES HUMAINES                                     |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 2   | 2   |     |     |
|  | CONNAISSANCES JURIDIQUES & CONNAISSANCES COMMERCIALES |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 2   | 2   |     |     |
|  | HISTOIRE DE L'ARCHITECTURE ET DE L'URBANISME          |                             |     | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 4   | (2) | 2   | (2) | 2   | (2) | 2   | (2) | 2   | (2) |
| DISCIPLINES SCIENTIFIQUES                | MATHEMATIQUES MI/MII(MN)                              | 8                           | 8   | 4   | 4   | 4   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | PHYSIQUE  |                             |     | 2   | 2   | 4   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | CHIMIE  |                             |     |     | 2   | 2   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | INFORMATIQUE  |                             |     |     |     | 2   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| SCIENCES APPLIQUEES                      | STATIQUE ET RESISTANCE DES MATERIAUX                  |                             |     | 4   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | PHYSIQUE HYGROTHERMIE                                 |                             |     |     |     |     |     |     |     | 4   |     |     |     |     |     |     |     | (2) | (2) |     |     |
|  | ACOUSTIQUE  |                             |     |     |     |     |     |     |     | 2   | 2   | (2) |     |     |     |     |     |     |     |     |     |
| BATIMENT                                 | ECLAIRAGISME  |                             |     |     |     |     |     |     |     | 2   | 2   | (2) |     |     |     |     |     |     |     |     |     |
| PERCEPTION ET REPRESENTATION DE L'ESPACE | GEOMETRIE DESCRIPTIVE ET CONSTRUCTIVE                 | 4                           | 4   | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | DESSIN D'ARCHITECTURE ET D'OBSERVATION                | 4                           | 4   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | PHOTO-VIDEO   |                             |     |     | 2   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |   |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| PROCESSUS DE CONCEPTION                  | ELEMENTS DE PROJET ARCH.                              | 8                           | 8   | 4   | 4   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | PROJET D'ARCHITECTURE                                 |                             |     |     |     | 8   | 8   | 8   | 8   |     |     |     |     |     | 14  |     |     |     |     | 14  |     |
|  | CONSTRUCTION  |                             |     | 6   | 6   | 2   | 2   | 4   | 4   | (2) | 4   | (2) | 4   | (2) | 4   | (2) | 4   | (2) | 4   | (2) |     |
|  | STRUCTURE   | 2                           | 2   |     |     | 4   | 4   | 4   | 4   |     |     |     |     |     | 4   | (2) | 4   | (2) | 4   | (2) |     |
| PROCESSUS DE REALISATION                 | RATIONALISATION BATIMENT                              |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     | (2) |     |     |     |     |
|  | REHABILITATION-RESTAUR.                               |                             |     |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |
|  | TECHNIQUES DE REALISATION                             | 2                           | 2   | 2   | 2   | 2   | 2   |     |     |     |     |     |     | (2) | (2) |     |     |     | (2) |     |     |
|  | ECONOMIE DU BATIMENT                                  |                             |     |     |     |     |     |     |     | 2   | 2   |     |     |     |     |     |     | (2) |     | (2) |     |
|  | METRE-DEVIS   |                             |     |     |     |     |     |     |     | 2   | 2   |     |     |     |     |     |     |     |     |     |     |
|  | PROGRAMMATION TRAVAUX                                 |                             |     |     |     |     |     |     |     | 2   | 2   | (2) |     |     |     |     |     |     |     |     |     |
|  | TECHNOLOGIE ET PATHOLOGIE DES BATIMENTS               |                             |     |     |     |     |     |     |     | 2   |     | (2) |     |     | (2) |     |     |     | (2) |     |     |
| AMENAGEMENT DU TERRITOIRE                | ELECTRICITE   |                             |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |     |
|  | INSTALLATIONS SANITAIRES                              |                             |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |     |
|  | CHAUFFAGE VENTILATION                                 |                             |     |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |
| EDUCATION PHYSIQUE                       | PLANIFICATION REGIONALE                               |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     | (2) | (2) | (2) |     |     |
|  | ANALYSE URBAINE                                       |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     | (2) | (2) | (2) |     |     |
|  | EQUIPEMENTS & TRANSPORTS                              |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     | (2) | (2) | (2) |     |     |
| EDUCATION PHYSIQUE                       | GYMNASTIQUE   | 2                           | 2   | 2   | 2   | 2   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | TOTAL HEURES/SEMAINE                                  | 36                          | 36  | 38  | 38  | 40  | 40  | 40  | 32  | (8) | 32  | (8) | 32  | (8) | 32  | (8) | 32  | (8) |     |     |     |

\* GEN : BRANCHES OBLIGATOIRES  
(OP) : BRANCHES A OPTION

PLAN D'ETUDES DE LA SECTION DU GENIE CIVIL - ETS

| MATIERES  | SEMESTRE        | HEURES DE COURS PAR SEMAINE |    |    |    |    |    |    |    |    |    |   |   |  |
|---|-----------------|-----------------------------|----|----|----|----|----|----|----|----|----|---|---|--|
|   |                 | 1                           | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |   |   |  |
| <b>DISCIPLINES DE CULTURE GENERALE</b>  |                 |                             |    |    |    |    |    |    |    |    |    |   |   |  |
| Français : expression écrite et orale, littérature et faits de civilisation   |                 | 6                           | 6  |    |    | 4  | 4  |    |    |    |    |   |   |  |
| Sciences humaines   |                 |                             |    |    |    |    |    |    |    |    |    |   | 4 |  |
| Allemand ou anglais   |                 | 4                           | 4  | 4  | 4  | 2  | 2  |    |    |    |    |   |   |  |
| Droit et instruction civique  |                 |                             |    |    |    |    |    | 2  | 2  |    |    |   |   |  |
| Gestion commerciale et comptabilité   |                 |                             |    |    |    |    |    |    |    |    |    |   | 4 |  |
| Education physique  |                 | 2                           | 2  | 2  | 2  | 1  | 1  | 1  | 1  |    |    |   |   |  |
| <b>DISCIPLINES SCIENTIFIQUES</b>  |                 |                             |    |    |    |    |    |    |    |    |    |   |   |  |
| Mathématique  |                 | 8                           | 8  | 6  | 6  | 3  | 3  |    |    |    |    |   |   |  |
| Méthodes numériques   |                 | 2                           | 2  |    |    |    |    |    |    |    |    |   |   |  |
| Informatique  |                 |                             |    |    |    | 3  | 3  |    |    |    |    |   |   |  |
| Géométrie descriptive   |                 |                             |    | 4  | 4  |    |    |    |    |    |    |   |   |  |
| Physique  |                 |                             |    | 4  | 4  | 4  | 4  |    |    |    |    |   |   |  |
| Chimie  |                 |                             |    | 2  | 2  |    |    |    |    |    |    |   |   |  |
| <b>DISCIPLINES DE L'INGENIEUR CIVIL</b>   |                 |                             |    |    |    |    |    |    |    |    |    |   |   |  |
| Géologie de l'ingénieur   |                 |                             |    |    |    | 4  |    |    |    |    |    |   |   |  |
| Langage graphique et dessin d'ouvrages de l'ingénieur civil   |                 | 8                           | 8  | 2  | 2  |    |    |    |    |    |    |   |   |  |
| Connaissances pratiques de la construction, structures du bâtiment et des ouvrages de génie civil, hygiène et sécurité du travail |                 | 6                           | 6  | 4  | 4  |    |    |    |    |    |    |   |   |  |
| Statique, résistance des matériaux et mécanique des structures  |                 |                             |    | 6  | 6  | 6  | 6  | 4  | 4  |    |    |   |   |  |
| Aménagements routiers, tunnels et chemins de fer  |                 |                             |    |    |    | 2  | 2  | 4  | 4  | 4  | 4  | 8 |   |  |
| Hydraulique théorique et pratique   |                 |                             |    |    |    |    | 2  | 4  | 4  | 4  | 4  | 8 |   |  |
| Géotechnique et fondations  |                 |                             |    |    |    |    | 2  | 4  | 4  | 4  | 2  | 2 |   |  |
| Topographie   |                 |                             |    |    |    | 2  | 4  | 4  |    |    |    |   |   |  |
| Béton armé et béton précontraint  |                 |                             |    |    |    | 4  | 2  | 4  | 4  | 4  | 4  | 8 |   |  |
| Structures métalliques  |                 |                             |    |    |    | 2  | 2  | 4  | 4  | 4  | 4  | 8 |   |  |
| Structures en bois  |                 |                             |    |    |    |    |    | 4  | 6  | 6  | 4  |   |   |  |
| Informatique appliquée  |                 |                             |    |    |    |    |    |    | 2  |    |    |   |   |  |
| Exécution des travaux, métré, devis   |                 |                             |    |    |    |    |    | 4  | 4  | 4  | 2  |   |   |  |
| <b>LABORATOIRES</b>   |                 |                             |    |    |    |    |    |    |    |    |    |   |   |  |
| Physique  |                 |                             |    | 2  | 2  |    |    |    |    |    |    |   |   |  |
| Chimie  |                 |                             |    | 2  | 2  |    |    |    |    |    |    |   |   |  |
| Hydraulique   |                 |                             |    |    |    |    |    |    |    |    |    |   | 2 |  |
| Mécanique des sols  |                 |                             |    |    |    |    |    |    |    |    |    |   | 2 |  |
| Essais des matériaux  |                 |                             |    |    |    | 2  | 2  |    |    |    |    |   |   |  |
| Statique ) à disposition des<br>Topographie ) professeurs   |                 |                             |    |    |    |    |    |    |    |    |    |   |   |  |
| <b>TOTAUX</b>   | <b>HEURES</b>   | 36                          | 36 | 38 | 38 | 39 | 39 | 39 | 39 | 40 | 40 |   |   |  |
|   | <b>SEMAINES</b> | 17                          | 17 | 17 | 17 | 17 | 17 | 16 | 17 | 15 | 10 |   |   |  |

Grille de répartition des enseignements en génie mécanique

|                          | 1  | 2  | 3  | 3  | 4  | 4  | 5  | 5  | Totaux |
|--------------------------|----|----|----|----|----|----|----|----|--------|
| Allemand/anglais         | 4  | 4  | 2  | 2  | -  | -  | -  | -  | 10     |
| Conn. commerciales       | -  | -  | 2  | 2  | -  | -  | -  | -  | 2      |
| Conn. juridiques         | -  | -  | -  | -  | 2  | 2  | -  | -  | 2      |
| Français                 | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 10     |
| Sciences humaines        | -  | -  | -  | -  | 2  | 2  | -  | -  | 2      |
| Aérotechnique            | -  | -  | -  | -  | -  | -  | 4  | 4  | 4      |
| Automatique              | -  | -  | 2  | -  | -  | 2  | 2  | 2  | 4      |
| Conn. machines           | -  | -  | 2  | 2  | 3  | 3  | 4  | 4  | 9      |
| Conn. matériaux          | -  | -  | 2  | 2  | 2  | 2  | 2  | 2  | 6      |
| Construction             | -  | -  | 2  | 2  | 2  | 2  | 2  | 2  | 6      |
| Dessin et DAO            | 4  | -  | -  | -  | -  | -  | -  | -  | 4      |
| Géométrie spatiale       | 2  | -  | -  | -  | -  | -  | -  | -  | 2      |
| Labo CAO                 | -  | 2  | -  | -  | -  | -  | -  | -  | 2      |
| Labo automatique         | -  | -  | -  | -  | -  | -  | 2  | 2  | 2      |
| Labo conn. des matériaux | -  | -  | 2  | 2  | 2  | 2  | -  | -  | 4      |
| Labo démonstration       | -  | -  | -  | -  | -  | -  | 2  | 2  | 2      |
| Labo mach. hydrauliques  | -  | -  | -  | -  | 1  | 1  | -  | -  | 1      |
| Labo mach. thermiques    | -  | -  | -  | -  | 1  | 1  | -  | -  | 1      |
| Labo option              | -  | -  | -  | -  | -  | -  | 3  | 3  | 3      |
| Labo techn. 3-eme        | -  | -  | 4  | 4  | -  | -  | -  | -  | 4      |
| Labo techn. 4-eme        | -  | -  | -  | -  | 4  | 4  | -  | -  | 4      |
| Machines hydrauliques    | -  | -  | -  | -  | -  | -  | 4  | 4  | 4      |
| Machines thermiques      | -  | -  | -  | -  | -  | -  | 4  | 4  | 4      |
| Machines-outils          | -  | -  | -  | -  | -  | -  | 4  | 4  | 4      |
| Mécanique                | -  | -  | 3  | 3  | -  | -  | -  | -  | 3      |
| Mécanique des fluides    | -  | -  | -  | 2  | 3  | 3  | -  | -  | 4      |
| Pratique intégrée        | 8  | 8  | -  | -  | -  | -  | -  | -  | 16     |
| Projet                   | -  | -  | -  | -  | -  | -  | 3  | 3  | 3      |
| Techn. ing. électricien  | -  | -  | 2  | 4  | 2  | 2  | -  | -  | 5      |
| Thermodynamique          | -  | -  | -  | 2  | 3  | 3  | -  | -  | 4      |
| Analyse num. & progr.    | 2  | 1  | -  | -  | -  | -  | -  | -  | 3      |
| Chimie                   | 2  | 2  | -  | -  | -  | -  | -  | -  | 4      |
| Informatique             | -  | 1  | -  | -  | 1  | 1  | -  | -  | 2      |
| Labo chimie              | -  | 2  | -  | -  | -  | -  | -  | -  | 2      |
| Labo informatique        | 2  | 2  | -  | -  | -  | -  | -  | -  | 4      |
| Labo physique            | -  | 2  | 2  | 2  | 2  | 2  | -  | -  | 6      |
| Mathématiques            | 8  | 5  | 8  | 4  | 4  | 4  | 2  | 2  | 25     |
| Physique                 | -  | 5  | 4  | 4  | 2  | 2  | -  | -  | 11     |
| Education physique       | 2  | 2  | 1  | 1  | 1  | 1  | -  | -  | 6      |
| <b>Totaux</b>            | 36 | 38 | 40 | 40 | 39 | 41 | 40 | 40 | 194    |

Grille de répartition des enseignements en génie chimique

|                          | 1  | 2  | 3  | 3  | 4  | 4  | 5  | 5  | Totaux |
|--------------------------|----|----|----|----|----|----|----|----|--------|
|                          |    |    |    |    |    |    |    |    |        |
| Allemand/anglais         | 4  | 4  | 2  | 2  | -  | -  | -  | -  | 10     |
| Conn. commerciales       | -  | -  | 2  | 2  | -  | -  | -  | -  | 2      |
| Conn. juridiques         | -  | -  | -  | -  | 2  | 2  | -  | -  | 2      |
| Français                 | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 10     |
| Sciences humaines        | -  | -  | -  | -  | 2  | 2  | -  | -  | 2      |
| Automatique              | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4      |
| Chimie analytique        | -  | -  | -  | -  | 1  | 1  | 1  | 1  | 2      |
| Chimie organique         | -  | -  | -  | -  | 4  | 4  | 2  | 2  | 6      |
| Conn. machines           | -  | -  | 4  | 4  | -  | -  | -  | -  | 4      |
| Conn. matériaux          | -  | -  | 2  | 2  | 2  | 2  | -  | -  | 4      |
| Dessin technique         | 4  | 4  | -  | -  | -  | -  | -  | -  | 8      |
| Electrotech. & corrosion | -  | -  | -  | -  | -  | -  | 2  | 2  | 2      |
| Génie chimique           | -  | -  | 1  | 1  | 2  | 2  | 3  | 3  | 6      |
| Géométrie spatiale       | 2  | -  | -  | -  | -  | -  | -  | -  | 2      |
| Labo automatique         | -  | -  | -  | -  | -  | -  | 1  | 1  | 1      |
| Labo biotechnologie      | -  | -  | -  | -  | -  | -  | 2  | 2  | 2      |
| Labo conn. des matériaux | -  | -  | 1  | 1  | 2  | 2  | -  | -  | 3      |
| Labo génie chimique      | -  | -  | -  | -  | 2  | 2  | 10 | 10 | 12     |
| Labo mach. hydrauliques  | -  | -  | 1  | 1  | -  | -  | -  | -  | 1      |
| Machines hydrauliques    | -  | -  | -  | -  | 1  | 1  | -  | -  | 1      |
| Mécanique                | -  | -  | 3  | 3  | -  | -  | -  | -  | 3      |
| Mécanique des fluides    | -  | -  | 2  | 2  | -  | -  | -  | -  | 2      |
| Planning & construction  | -  | -  | -  | -  | 4  | 4  | 8  | 8  | 12     |
| Polymères                | -  | -  | 1  | 1  | -  | -  | -  | -  | 1      |
| Pratique intégrée        | 8  | 8  | -  | -  | -  | -  | -  | -  | 16     |
| Techn. ing. électricien  | -  | -  | 2  | 2  | -  | -  | 1  | 1  | 3      |
| Thermodynamique          | -  | -  | 2  | 2  | 1  | 1  | -  | -  | 3      |
| Analyse num. & progr.    | 2  | 1  | -  | -  | -  | -  | -  | -  | 3      |
| Chimie                   | 2  | 2  | 2  | 2  | -  | -  | -  | -  | 6      |
| Informatique             | 2  | 2  | -  | -  | -  | -  | 1  | 1  | 5      |
| Labo chimie              | -  | 2  | 2  | 2  | -  | -  | -  | -  | 4      |
| Labo chimie analytique   | -  | -  | -  | -  | 1  | 1  | -  | -  | 1      |
| Labo chimie organique    | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4      |
| Labo physique            | -  | 2  | 2  | 2  | 1  | 1  | -  | -  | 5      |
| Mathématiques            | 6  | 5  | 6  | 6  | 4  | 4  | 3  | 3  | 24     |
| Physique                 | 2  | 4  | 2  | 2  | 4  | 4  | -  | -  | 12     |
| Education physique       | 2  | 2  | 1  | 1  | 1  | 1  | -  | -  | 6      |
| Totaux                   | 36 | 38 | 40 | 40 | 40 | 40 | 40 | 40 | 194    |

ETS

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES             | SECTION : GENIE ELECTRIQUE<br>option : Energie |    |    |    |    |    |    |    |    |    | Nbre<br>heures.<br>années |  |
|-------------------------|--|----|----|----|----|----|----|----|----|----|---------------------------|--|
|                         | 1  |    | 2  |    | 3  |    | 4  |    | 5  |    |                           |  |
|                         | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  |                           |  |
| <b>DISCIP.GENERALES</b> |  |    |    |    |    |    |    |    |    |    |                           |  |
| Français                | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 10                        |  |
| Langues                 | 4  | 4  | 4  | 4  | 2  | 2  | -  | -  | -  | -  | 10                        |  |
| Sc. humaines            | -  | -  | -  | -  | -  | -  | 2  | 2  | -  | -  | 2                         |  |
| Conn. jurid.            | -  | -  | -  | -  | -  | -  | -  | -  | 2  | 2  | 2                         |  |
| Conn. commer.           | -  | -  | -  | -  | 2  | 2  | -  | -  | -  | -  | 2                         |  |
| <b>DISCIP.SCIENT.</b>   |  |    |    |    |    |    |    |    |    |    |                           |  |
| Mathématiques           | 6  | 6  | 5  | 5  | 6  | 6  | 5  | 5  | 2  | 2  | 24                        |  |
| Méthodes num.           | 2  | 2  | 1  | 1  | -  | -  | -  | -  | -  | -  | 3                         |  |
| Informatique            | 2  | 2  | 2  | 2  | 1  | 1  | -  | -  | -  | -  | 5                         |  |
| Chimie                  | 2  | 2  | 2  | 2  | -  | -  | -  | -  | -  | -  | 4                         |  |
| Physique                | 2  | 2  | 4  | 4  | 4  | 4  | 2  | 2  | -  | -  | 12                        |  |
| <b>DISCIP.TECH.</b>     |  |    |    |    |    |    |    |    |    |    |                           |  |
| Electrotech.            | -  | -  | -  | -  | 6  | 6  | 2  | 2  | -  | -  | 8                         |  |
| Conn. des mat.          | -  | -  | -  | -  | 2  | 2  | -  | -  | -  | -  | 2                         |  |
| T.I.M                   | -  | -  | -  | -  | 2  | 2  | 2  | 2  | -  | -  | 4                         |  |
| Electronique            | -  | -  | -  | -  | 2  | 2  | 3  | 3  | 3  | 3  | 8                         |  |
| Electr.de puis.         | -  | -  | -  | -  | -  | -  | 2  | 2  | 4  | 4  | 6                         |  |
| Electrotech. ap.        | -  | -  | -  | -  | -  | -  | 4  | 4  | 8  | 8  | 12                        |  |
| Centrales               | -  | -  | -  | -  | -  | -  | 3  | 3  | 2  | 2  | 5                         |  |
| Haute-tension           | -  | -  | -  | -  | -  | -  | 2  | 2  | 1  | 1  | 3                         |  |
| Syst. logiques          | -  | -  | -  | -  | 2  | 2  | -  | -  | -  | -  | 2                         |  |
| Syst. asservis          | -  | -  | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4                         |  |
| Dessin                  | 4  | 4  | 4  | 4  | -  | -  | -  | -  | -  | -  | 8                         |  |
| Géom. spatiale          | 2  | 2  | -  | -  | -  | -  | -  | -  | -  | -  | 2                         |  |
| Sém. centrales          | -  | -  | -  | -  | -  | -  | -  | -  | 2  | 2  | 2                         |  |
| <b>DISCIP.PRATIQUES</b> |  |    |    |    |    |    |    |    |    |    |                           |  |
| Conn.de la prat.        | 8  | 8  | 8  | 8  | 4  | 4  | -  | -  | -  | -  | 20                        |  |
| Labo.physique           | -  | -  | 2  | 2  | 2  | 2  | 2  | 2  | -  | -  | 6                         |  |
| " chimie                | -  | -  | 2  | 2  | -  | -  | -  | -  | -  | -  | 2                         |  |
| " conn.mat.             | -  | -  | -  | -  | 2  | 2  | -  | -  | -  | -  | 2                         |  |
| " électron.             | -  | -  | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4                         |  |
| " él.de puis.           | -  | -  | -  | -  | -  | -  | -  | -  | 2  | 2  | 2                         |  |
| " mach. élec.           | -  | -  | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4                         |  |
| " haute-tens.           | -  | -  | -  | -  | -  | -  | -  | -  | 4  | 4  | 4                         |  |
| " automatique           | -  | -  | -  | -  | -  | -  | 2  | 2  | 2  | 2  | 4                         |  |
| <b>DIVERS</b>           |  |    |    |    |    |    |    |    |    |    |                           |  |
| Educ. physique          | 2  | 2  | 2  | 2  | 1  | 1  | 1  | 1  | -  | -  | 6                         |  |
| <b>TOTAL</b>            | 36   | 36 | 38 | 38 | 40 | 40 | 40 | 40 | 40 | 40 | 194                       |  |

ETS

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>option : Automatique |           |           |           |           |           |           |           |           |           | Nbre heures.<br>annees |
|--------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
|                          | 1  |           | 2         |           | 3         |           | 4         |           | 5         |           |                        |
|                          | 1  | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                        |
| <b>DISCIP. GENERALES</b> |  |           |           |           |           |           |           |           |           |           |                        |
| Français                 | 2  | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                     |
| Langues                  | 4  | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                     |
| Sc. humaines             | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Conn. jurid.             | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. commer.            | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| <b>DISCIP. SCIENT.</b>   |  |           |           |           |           |           |           |           |           |           |                        |
| Mathématiques            | 6  | 6         | 5         | 5         | 6         | 6         | 6         | 6         | 2         | 2         | 25                     |
| Méthodes num.            | 2  | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                      |
| Informatique             | 2  | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                      |
| Chimie                   | 2  | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                      |
| Physique                 | 2  | 2         | 4         | 4         | 4         | 4         | 2         | 2         | -         | -         | 12                     |
| <b>DISCIP. TECH.</b>     |  |           |           |           |           |           |           |           |           |           |                        |
| Electrotech.             | -  | -         | -         | -         | 6         | 6         | 2         | 2         | -         | -         | 8                      |
| Conn. des mat.           | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| T. I. M                  | -  | -         | -         | -         | 2         | 2         | 3         | 3         | -         | -         | 5                      |
| Electronique             | -  | -         | -         | -         | 2         | 2         | 3         | 3         | 4         | 4         | 9                      |
| Electr. de puiss.        | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| Electrotech. ap.         | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| Micro-informat.          | -  | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| Syst. logiques           | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| Syst. asservis           | -  | -         | -         | -         | -         | -         | 2         | 2         | 6         | 6         | 8                      |
| Dessin                   | 4  | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                      |
| Géom. spatiale           | 2  | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                      |
| <b>DISCIP. PRATIQUES</b> |  |           |           |           |           |           |           |           |           |           |                        |
| Conn. de la prat.        | 8  | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                     |
| Labo. physique           | -  | -         | 2         | 2         | 2         | 2         | 2         | 2         | -         | -         | 6                      |
| " chimie                 | -  | -         | 2         | 2         | -         | -         | -         | -         | -         | -         | 2                      |
| " conn. mat.             | -  | -         | -         | -         | 2         | 2         | -         | -         | 4         | 4         | 6                      |
| " électron.              | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| " él. de puis.           | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " mach. élec.            | -  | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| " automatique            | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " micro-info.            | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " robotique              | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| <b>DIVERS</b>            |  |           |           |           |           |           |           |           |           |           |                        |
| Educ. physique           | 2  | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                      |
| <b>TOTAL</b>             | <b>36</b>  | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>             |

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>option : Electronique |           |           |           |           |           |           |           |           |           | Nbre heures.<br>annees |
|--------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
|                          | 1   |           | 2         |           | 3         |           | 4         |           | 5         |           |                        |
|                          | 1   | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                        |
| <b>DISCIP. GENERALES</b> |   |           |           |           |           |           |           |           |           |           |                        |
| Français                 | 2   | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                     |
| Langues                  | 4   | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                     |
| Sc. humaines             | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. jurid.             | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. commer.            | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| <b>DISCIP. SCIENT.</b>   |   |           |           |           |           |           |           |           |           |           |                        |
| Mathématiques            | 6   | 6         | 5         | 5         | 6         | 6         | 5         | 5         | 2         | 2         | 24                     |
| Méthodes num.            | 2   | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                      |
| Informatique             | 2   | 2         | 2         | 2         | 1         | 1         | 1         | 1         | 1         | 1         | 7                      |
| Chimie                   | 2   | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                      |
| Physique                 | 2   | 2         | 4         | 4         | 4         | 4         | 2         | 2         | -         | -         | 12                     |
| <b>DISCIP. TECH.</b>     |   |           |           |           |           |           |           |           |           |           |                        |
| Electrotech.             | -   | -         | -         | -         | 6         | 6         | 2         | 2         | -         | -         | 8                      |
| Conn. des mat.           | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| T. I. M                  | -   | -         | -         | -         | 2         | 2         | 2         | 2         | -         | -         | 4                      |
| Electronique             | -   | -         | -         | -         | 2         | 2         | 6         | 6         | 6         | 6         | 14                     |
| Electrotech. ap.         | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 2                      |
| Télécomm.+ T.D           | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| Micro-informat.          | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| Syst. logiques           | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| Syst. asservis           | -   | -         | -         | -         | -         | -         | -         | -         | 3         | 3         | 3                      |
| Centrales                | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Dessin                   | 4   | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                      |
| Géom. spatiale           | 2   | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                      |
| <b>DISCIP. PRATIQUES</b> |   |           |           |           |           |           |           |           |           |           |                        |
| Conn. de la prat.        | 8   | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                     |
| Labo. physique           | -   | -         | 2         | 2         | 2         | 2         | 2         | 2         | -         | -         | 6                      |
| " chimie                 | -   | -         | 2         | 2         | -         | -         | -         | -         | -         | -         | 2                      |
| " conn. mat.             | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| " électron.              | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| " mach. élec.            | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| " télécomm.              | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 3                      |
| " automatique            | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " micro-info.            | -   | -         | -         | -         | -         | -         | 1         | 1         | 2         | 2         | 3                      |
| " info.                  | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 3                      |
| Projet électro.          | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| <b>DIVERS</b>            |   |           |           |           |           |           |           |           |           |           |                        |
| Educ. physique           | 2   | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                      |
| <b>TOTAL</b>             | <b>36</b>   | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>             |

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>option : Télécommunications |           |           |           |           |           |           |           |           |           | Nbre heures.<br>annees |
|--------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
|                          | 1   |           | 2         |           | 3         |           | 4         |           | 5         |           |                        |
|                          | 1   | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                        |
| <u>DISCIP. GENERALES</u> |   |           |           |           |           |           |           |           |           |           |                        |
| Français                 | 2   | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                     |
| Langues                  | 4   | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                     |
| Sc. humaines             | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. jurid.             | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. commer.            | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| <u>DISCIP. SCIENT.</u>   |   |           |           |           |           |           |           |           |           |           |                        |
| Mathématiques            | 6   | 6         | 5         | 5         | 6         | 6         | 5         | 5         | -         | -         | 22                     |
| Méthodes num.            | 2   | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                      |
| Informatique             | 2   | 2         | 2         | 2         | 1         | 1         | 2         | 2         | -         | -         | 7                      |
| Chimie                   | 2   | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                      |
| Physique                 | 2   | 2         | 4         | 4         | 4         | 4         | 2         | 2         | -         | -         | 12                     |
| <u>DISCIP. TECH.</u>     |   |           |           |           |           |           |           |           |           |           |                        |
| Electrotech.             | -   | -         | -         | -         | 6         | 6         | 2         | 2         | -         | -         | 8                      |
| Conn. des mat.           | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| T.I.M                    | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| Electronique             | -   | -         | -         | -         | 2         | 2         | 4         | 4         | 4         | 4         | 10                     |
| Trans. de don.           | -   | -         | -         | -         | -         | -         | -         | -         | 4         | 4         | 4                      |
| Electrotech. ap.         | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Télécomm.                | -   | -         | -         | -         | -         | -         | 3         | 3         | 4         | 4         | 7                      |
| Micro-informat.          | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| Syst. logiques           | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| Syst. asservis           | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Electro-accous.          | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Dessin                   | 4   | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                      |
| Géom. spatiale           | 2   | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                      |
| Syst. d'expl.            | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| <u>DISCIP. PRATIQUES</u> |   |           |           |           |           |           |           |           |           |           |                        |
| Conn. de la prat.        | 8   | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                     |
| Labo. physique           | -   | -         | 2         | 2         | 2         | 2         | 2         | 2         | -         | -         | 6                      |
| " chimie                 | -   | -         | 2         | 2         | -         | -         | -         | -         | -         | -         | 2                      |
| " conn. mat.             | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| " électron.              | -   | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                      |
| " mach. élec.            | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| " télécomm.              | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 3                      |
| " automatique            | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 1                      |
| " micro-info.            | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " info.                  | -   | -         | -         | -         | -         | -         | 3         | 3         | 2         | 2         | 5                      |
| " trans. don.            | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| " électro-ac.            | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| <u>DIVERS</u>            |   |           |           |           |           |           |           |           |           |           |                        |
| Educ. physique           | 2   | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                      |
| <b>TOTAL</b>             | <b>36</b>   | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>             |

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>orientation informatique |           |           |           |           |           |           |           |           |           | Nbre heures.<br>annees |
|--------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
|                          | 1  |           | 2         |           | 3         |           | 4         |           | 5         |           |                        |
|                          | 1  | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                        |
| <u>DISCIP. GENERALES</u> |  |           |           |           |           |           |           |           |           |           |                        |
| Français                 | 2  | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                     |
| Langues                  | 4  | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                     |
| Sc. humaines             | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. jurid.             | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Conn. commer.            | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| <u>DISCIP. SCIENT.</u>   |  |           |           |           |           |           |           |           |           |           |                        |
| Mathématiques            | 6  | 6         | 5         | 5         | 7         | 7         | 3         | 3         | 2         | 2         | 23                     |
| Méthodes num.            | 2  | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                      |
| Informatique             | 2  | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                      |
| Chimie                   | 2  | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                      |
| Physique                 | 2  | 2         | 4         | 4         | 4         | 4         | 2         | 2         | -         | -         | 12                     |
| <u>DISCIP. TECH.</u>     |  |           |           |           |           |           |           |           |           |           |                        |
| Electrotech.             | -  | -         | -         | -         | 4         | 4         | 2         | 2         | -         | -         | 6                      |
| Electronique             | -  | -         | -         | -         | 4         | 4         | 4         | 4         | 4         | 4         | 12                     |
| Tr. de don., tel.        | -  | -         | -         | -         | -         | -         | 2         | 2         | 3         | 3         | 5                      |
| Moteurs et act.          | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Micro-informat.          | -  | -         | -         | -         | -         | -         | 2         | 2         | 3         | 3         | 5                      |
| Syst. logiques           | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                      |
| Syst. asservis           | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| Pro. temps réel          | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Alg. struc. don.         | -  | -         | -         | -         | 1         | 1         | -         | -         | -         | -         | 1                      |
| Logic. mach. ab.         | -  | -         | -         | -         | 1         | 1         | -         | -         | -         | -         | 1                      |
| Tech. de compil.         | -  | -         | -         | -         | -         | -         | 4         | 4         | -         | -         | 4                      |
| Syst. d'expl.            | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                      |
| Syst. distrib.           | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Bases de don.            | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Génie logic.             | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Info. 5 choisis          | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                      |
| Dessin                   | 4  | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                      |
| Géom. spatiale           | 2  | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                      |
| <u>DISCIP. PRATIQUES</u> |  |           |           |           |           |           |           |           |           |           |                        |
| Conn. de la prat.        | 8  | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                     |
| Labo. physique           | -  | -         | 2         | 2         | 2         | 2         | -         | -         | -         | -         | 4                      |
| " chimie                 | -  | -         | 2         | 2         | -         | -         | -         | -         | -         | -         | 2                      |
| " électron.              | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " trans., tél.           | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 3                      |
| " automatique            | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 3                      |
| " micro-info.            | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                      |
| " info.                  | -  | -         | -         | -         | 4         | 4         | 4         | 4         | 4         | 4         | 12                     |
| <u>DIVERS</u>            |  |           |           |           |           |           |           |           |           |           |                        |
| Educ. physique           | 2  | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                      |
| <b>TOTAL</b>             | <b>36</b>  | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>             |

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>orientation microtechnique |           |           |           |           |           |           |           |           |           | Nbre heures. années |
|--------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
|                          | 1  |           | 2         |           | 3         |           | 4         |           | 5         |           |                     |
|                          | 1  | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                     |
| <b>DISCIP. GENERALES</b> |  |           |           |           |           |           |           |           |           |           |                     |
| Français                 | 2  | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                  |
| Langues                  | 4  | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                  |
| Sc. humaines             | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                   |
| Conn. jurid.             | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                   |
| Conn. commer.            | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                   |
| <b>DISCIP. SCIENT.</b>   |  |           |           |           |           |           |           |           |           |           |                     |
| Mathématiques            | 6  | 6         | 5         | 5         | 7         | 7         | 6         | 6         | 2         | 2         | 26                  |
| Méthodes num.            | 2  | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                   |
| Informatique             | 2  | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                   |
| Chimie                   | 2  | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                   |
| Physique                 | 2  | 2         | 4         | 4         | 4         | 4         | 2         | 2         | -         | -         | 12                  |
| Astronomie               | -  | -         | -         | -         | -         | -         | 2         | -         | -         | -         | 1                   |
| <b>DISCIP. TECH.</b>     |  |           |           |           |           |           |           |           |           |           |                     |
| Electrotech.             | -  | -         | -         | -         | 4         | 4         | 2         | 2         | -         | -         | 6                   |
| Conn. des mat.           | -  | -         | -         | -         | 2         | 2         | 2         | 2         | 2         | 2         | 6                   |
| Méc. industr.            | -  | -         | -         | -         | 4         | 4         | -         | -         | -         | -         | 4                   |
| Elém. de const.          | -  | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                   |
| Construction             | -  | -         | -         | -         | -         | -         | 4         | 4         | 2-6       | 2-6       | 6-10                |
| Electronique             | -  | -         | -         | -         | 2         | 2         | 4         | 4         | 4         | 4         | 10                  |
| Microtechnique           | -  | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                   |
| Syst. logiques           | -  | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                   |
| Syst. asservis           | -  | -         | -         | -         | -         | -         | 2         | 4         | 4         | 4         | 5                   |
| Micro-informat.          | -  | -         | -         | -         | -         | -         | 2         | 2         | 4-0       | 4-0       | 6-2                 |
| Dessin                   | 4  | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                   |
| Géom. spatiale           | 2  | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                   |
| Métrologie               | -  | -         | -         | -         | -         | -         | -         | -         | 0-2       | 0-2       | 0-2                 |
| <b>DISCIP. PRATIQUES</b> |  |           |           |           |           |           |           |           |           |           |                     |
| Conn. de la prat.        | 8  | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                  |
| Labo. physique           | -  | -         | 2         | 2         | 2         | 2         | -         | -         | -         | -         | 4                   |
| " chimie                 | -  | -         | 2         | 2         | -         | -         | -         | -         | -         | -         | 2                   |
| " conn. mat.             | -  | -         | -         | -         | 2         | 2         | 2         | 2         | 2         | 2         | 6                   |
| " électron.              | -  | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6                   |
| " robotique              | -  | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                   |
| " automatique            | -  | -         | -         | -         | -         | -         | 2         | 4         | 4         | 4         | 5                   |
| " micro-info.            | -  | -         | -         | -         | -         | -         | 1         | 1         | 2-0       | 2-0       | 3-1                 |
| " micro. hor.            | -  | -         | -         | -         | -         | -         | 2         | -         | -         | -         | 1                   |
| " micro. gén.            | -  | -         | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2                   |
| <b>DIVERS</b>            |  |           |           |           |           |           |           |           |           |           |                     |
| Educ. physique           | 2  | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                   |
| <b>TOTAL</b>             | <b>36</b>  | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>          |

REPARTITION DES HEURES D'ENSEIGNEMENT

| DISCIPLINES              | SECTION : GENIE ELECTRIQUE<br>orientation nucléaire |           |           |           |           |           |           |           |           |           | Nbre heures. années |
|--------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
|                          | 1   |           | 2         |           | 3         |           | 4         |           | 5         |           |                     |
|                          | 1   | 2         | 1         | 2         | 1         | 2         | 1         | 2         | 1         | 2         |                     |
| <b>DISCIP. GENERALES</b> |   |           |           |           |           |           |           |           |           |           |                     |
| Français                 | 2   | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 2         | 10                  |
| Langues                  | 4   | 4         | 4         | 4         | 2         | 2         | -         | -         | -         | -         | 10                  |
| Sc. humaines             | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                   |
| Conn. jurid.             | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                   |
| Conn. commer.            | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                   |
| <b>DISCIP. SCIENT.</b>   |   |           |           |           |           |           |           |           |           |           |                     |
| Mathématiques            | 6   | 6         | 5         | 5         | 6         | 6         | 5         | 5         | 2         | 2         | 24                  |
| Méthodes num.            | 2   | 2         | 1         | 1         | -         | -         | -         | -         | -         | -         | 3                   |
| Informatique             | 2   | 2         | 2         | 2         | -         | -         | -         | -         | -         | -         | 4                   |
| Chim. & Chim. ind.       | 2   | 2         | 2         | 2         | -         | -         | -         | -         | 2         | 2         | 6                   |
| Phys. & Phys. ind.       | 2   | 2         | 4         | 4         | 4         | 4         | 6         | 6         | 2         | 2         | 18                  |
| <b>DISCIP. TECH.</b>     |   |           |           |           |           |           |           |           |           |           |                     |
| Electr. & Energie        | -   | -         | -         | -         | 5         | 5         | 4         | 4         | 1         | 1         | 10                  |
| Rés. des mat.            | -   | -         | -         | -         | 2         | -         | -         | -         | -         | -         | 1                   |
| Méc. des fluides         | -   | -         | -         | -         | -         | 2         | -         | -         | -         | -         | 1                   |
| Mach. hydraul.           | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 2                   |
| Mach. therm.             | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                   |
| Conn. des mat.           | -   | -         | -         | -         | 4         | 4         | 1         | 1         | 2         | 2         | 7                   |
| Electronique             | -   | -         | -         | -         | 2         | 2         | 4         | 4         | 5         | 5         | 11                  |
| Syst. logiques           | -   | -         | -         | -         | 2         | 2         | -         | -         | -         | -         | 2                   |
| Syst. asservis           | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                   |
| Micro-informat.          | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                   |
| Dessin                   | 4   | 4         | 4         | 4         | -         | -         | -         | -         | -         | -         | 8                   |
| Géom. spatiale           | 2   | 2         | -         | -         | -         | -         | -         | -         | -         | -         | 2                   |
| <b>DISCIP. PRATIQUES</b> |   |           |           |           |           |           |           |           |           |           |                     |
| Conn. de la prat.        | 8   | 8         | 8         | 8         | 4         | 4         | -         | -         | -         | -         | 20                  |
| Labo. physique           | -   | -         | 2         | 2         | 2         | 2         | 2         | 2         | 4         | 4         | 10                  |
| " chimie                 | -   | -         | 2         | 2         | -         | -         | -         | -         | 2         | 2         | 4                   |
| " conn. mat.             | -   | -         | -         | -         | 2         | 2         | 1         | 1         | 2         | 2         | 5                   |
| " électron.              | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                   |
| " mach. élec.            | -   | -         | -         | -         | -         | -         | 2         | 2         | -         | -         | 4                   |
| " automatique            | -   | -         | -         | -         | -         | -         | 2         | 2         | 2         | 2         | 4                   |
| " micro-info.            | -   | -         | -         | -         | -         | -         | -         | -         | 2         | 2         | 2                   |
| " haute-tens.            | -   | -         | -         | -         | -         | -         | -         | -         | 4         | 4         | 4                   |
| <b>DIVERS</b>            |   |           |           |           |           |           |           |           |           |           |                     |
| Educ. physique           | 2   | 2         | 2         | 2         | 1         | 1         | 1         | 1         | -         | -         | 6                   |
| <b>TOTAL</b>             | <b>36</b>   | <b>36</b> | <b>38</b> | <b>38</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>40</b> | <b>194</b>          |

## REPARTITION DES HEURES D'ENSEIGNEMENT

| SECTION : ARCHITECTURE        |    |   |    |    |    |    |    |    |    |    |       |
|-------------------------------|----|---|----|----|----|----|----|----|----|----|-------|
| Année<br>Semestre             | 1  |   | 2  |    | 3  |    | 4  |    | 5  |    |       |
|                               | 1  | 2 | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  |       |
| <u>Discipl. générales</u>     |    |   |    |    |    |    |    |    |    |    |       |
| Conn. juridiques              |    |   |    |    |    |    |    |    | 2  | 0  | 1     |
| Conn. commerciales            |    |   |    |    |    |    |    |    |    |    | 4     |
| Français                      |    |   | 2  |    | 2  |    |    |    |    |    | 4     |
| Anglais                       | 4  |   |    |    |    |    |    |    |    |    | 4     |
| Art de la communic.           |    |   |    |    |    |    |    |    | 2  | 0  | 1     |
| <u>Discipl. scientifiques</u> |    |   |    |    |    |    |    |    |    |    |       |
| Mathématiques                 | 4  |   | 2  |    | 2  |    |    |    |    |    | 8     |
| Méth.numér. /Info             | 2  |   |    |    |    | 2  |    | 2  | 1  |    | 5,5   |
| Physique                      |    |   | 2  |    | 2  |    |    |    |    |    | 4     |
| Chimie                        | 2  |   |    |    |    |    |    |    |    |    | 2     |
| <u>Discipl. techniques</u>    |    |   |    |    |    |    |    |    |    |    |       |
| Géométrie descriptive         | 2  |   |    |    |    |    |    |    |    |    | 2     |
| Géométrie construct.          |    |   | 2  |    |    |    |    |    |    |    | 2     |
| Construction                  | 4  |   | 2  |    | 2  |    | 2  |    | 2  |    | 12    |
| <u>Elém. projets d'arch.</u>  |    |   |    |    |    |    |    |    |    |    |       |
| Projets d'archit.             | 4  |   | 4  |    | 4  |    | 4  |    | 6  |    | 8     |
| Projets d'archit.             |    |   |    |    |    |    |    |    |    |    | 14    |
| Dessin d'observ.              | 2  |   |    |    |    |    |    |    |    |    | 2     |
| <u>Structures</u>             |    |   |    |    |    |    |    |    |    |    |       |
| Statique & Rés. mat.          |    |   | 0  | 2  | 2  |    | 2  |    | 2  | 1  | 5,5   |
| Economie bâtiment             |    |   |    |    | 2  |    | 2  |    | 2  | 1  | 5     |
| Chauffage                     |    |   | 0  | 2  | 2  | 1  | 0  | 0  | 2  | 1  | 3,5   |
| <u>Install. sanitaires</u>    |    |   |    |    |    |    |    |    |    |    |       |
| Install. élect.               |    |   |    |    | 2  | 0  | 1  | 0  | 0  | 1  | 2     |
| Eclairagisme                  |    |   |    |    |    |    | 1  |    | 0  | 1  | 1,5   |
| Acoustique                    |    |   |    |    | 0  | 1  | 1  |    | 0  | 1  | 1     |
| Histoire de l'archit.         |    |   | 2  |    | 2  |    | 2  |    | 2  | 1  | 7,5   |
| Conn. des matériaux           |    |   |    |    |    |    | 1  |    |    |    | 1     |
| <u>Labo essai matériaux</u>   |    |   |    |    |    |    |    |    |    |    |       |
| Labo essai matériaux          |    |   |    |    |    |    | 1  |    |    |    | 1     |
|                               | 20 |   | 20 | 22 | 20 | 20 | 21 | 21 | 20 | 17 | 100,5 |

## REPARTITION DES HEURES D'ENSEIGNEMENT

| SECTION : GENIE CIVIL          |    |   |    |   |    |   |    |   |    |    |       |   |
|--------------------------------|----|---|----|---|----|---|----|---|----|----|-------|---|
| Année<br>Semestre              | 1  |   | 2  |   | 3  |   | 4  |   | 5  |    |       |   |
|                                | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2  |       |   |
| <u>Discipl. générales</u>      |    |   |    |   |    |   |    |   |    |    |       |   |
| Conn. juridiques               | 1  |   |    |   |    |   |    |   |    |    | 1     |   |
| Conn. commerciales             | 1  |   |    |   |    |   |    |   |    |    | 1     |   |
| Français                       | 2  |   |    |   | 2  |   |    |   |    |    | 4     |   |
| Anglais                        |    |   | 4  |   |    |   |    |   |    |    | 4     |   |
| Art de la communic.            |    |   |    |   |    |   |    |   | 2  | 0  | 1     |   |
| <u>Discipl. scientifiques</u>  |    |   |    |   |    |   |    |   |    |    |       |   |
| Mathématiques                  | 6  |   | 3  |   | 2  |   |    |   |    |    | 11    |   |
| Méth. numér./Info              | 2  |   | 1  |   | 1  |   | 1  |   | 2  |    | 7     |   |
| Physique                       |    |   | 4  |   | 2  |   |    |   |    |    | 6     |   |
| Chimie                         | 2  |   |    |   |    |   |    |   |    |    | 2     |   |
| Labo de physique               |    |   |    |   | 1  |   |    |   |    |    | 1     |   |
| <u>Discipl. techniques</u>     |    |   |    |   |    |   |    |   |    |    |       |   |
| Géologie                       |    |   | 0  | 4 |    |   |    |   |    |    | 2     |   |
| Topographie                    |    |   |    |   | 2  |   | 3  |   | 2  | 5  | 2     |   |
| Hydraulique                    |    |   |    |   | 3  |   |    |   |    |    | 9,5   |   |
| <u>Statique et résis.mat.</u>  |    |   |    |   |    |   |    |   |    |    |       |   |
| Construction                   | 4  |   | 4  |   | 4  |   |    |   |    |    | 12    |   |
| Fondations                     | 2  |   | 4  | 0 | 2  |   | 2  | 0 |    |    | 4     |   |
| <u>Béton armé</u>              |    |   |    |   |    |   |    |   |    |    |       |   |
| Structures métalliques         |    |   |    |   |    |   | 4  |   | 4  | 5  | 8,5   |   |
| Structures bois                |    |   |    |   |    |   | 2  |   | 4  | 5  | 8,5   |   |
| <u>Routes et voies ferrées</u> |    |   |    |   |    |   |    |   |    |    |       |   |
| Métrés et devis                |    |   |    |   |    |   | 2  | 3 | 0  | 3  | 5     | 7 |
| <u>Labo d'hydraulique</u>      |    |   |    |   |    |   |    |   |    |    |       |   |
| Labo essais matériaux          |    |   |    |   | 2  |   | 0  | 2 |    |    | 1     |   |
| Labo mécanique des sols        |    |   |    |   |    |   | 0  | 2 |    |    | 2     |   |
|                                | 20 |   | 20 |   | 21 |   | 21 |   | 21 | 22 | 103,5 |   |

## REPARTITION DES HEURES D'ENSEIGNEMENT

| SECTION : GENIE MECANIQUE     |    |    |    |   |    |   |    |   |    |    |       |
|-------------------------------|----|----|----|---|----|---|----|---|----|----|-------|
| Année<br>Semestre             | 1  |    | 2  |   | 3  |   | 4  |   | 5  |    |       |
|                               | 1  | 2  | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2  |       |
| <u>Discipl. générales</u>     |    |    |    |   |    |   |    |   |    |    |       |
| Conn. juridiques              | 1  |    |    |   |    |   |    |   |    |    | 1     |
| Conn. commerciales            | 1  |    |    |   |    |   |    |   |    |    | 1     |
| Français                      | 2  |    |    |   | 2  |   |    |   |    |    | 4     |
| Anglais                       |    |    | 4  |   |    |   |    |   |    |    | 4     |
| Art de la communic.           |    |    |    |   |    |   |    |   | 2  | 0  |       |
| <u>Discipl. scientifiques</u> |    |    |    |   |    |   |    |   |    |    |       |
| Mathématiques                 | 6  |    | 3  |   | 2  |   |    |   |    |    | 11    |
| Méth. numér./Info             | 2  | 3  | 1  |   | 1  |   | 1  |   | 2  |    | 7,5   |
| Physique                      |    |    | 4  |   | 2  |   | 2  |   |    |    | 8     |
| Chimie                        | 2  |    |    |   |    |   |    |   |    |    | 2     |
| Labo de physique              |    |    |    |   | 1  |   |    |   |    |    |       |
| <u>Discipl. techniques</u>    |    |    |    |   |    |   |    |   |    |    |       |
| Dessin de machines            | 3  |    |    |   |    |   |    |   |    |    | 3     |
| Mécanique                     | 1  |    | 2  |   |    |   |    |   |    |    | 3     |
| Conn. des matériaux           | 0  | 2  | 2  |   | 1  |   | 1  |   | 1  |    | 6     |
| Statique & Rés. mat.          |    |    | 2  |   | 2  |   | 2  |   | 2  |    | 8     |
| Conn. des machines            |    |    |    |   | 4  |   |    |   |    |    | 4     |
| Métrologie                    |    |    |    |   |    |   | 1  |   |    |    | 1     |
| Automatique méc.              |    |    |    |   |    |   | 2  |   | 2  |    | 4     |
| Techn.ingén.électr.           | 2  | 0  | 2  |   | 2  |   |    |   |    |    | 5     |
| Machines-outils               |    |    |    |   |    |   | 2  |   | 2  |    | 4     |
| Hydraulique                   |    |    |    |   |    |   | 3  |   | 2  |    | 5     |
| Thermodynamique               |    |    |    |   |    |   | 3  |   | 2  |    | 5     |
| Construction                  |    |    |    |   | 3  |   | 2  |   | 2  |    | 7     |
| Organis. industr.             |    |    |    |   |    |   |    |   | 2  |    | 2     |
| Labo machines-outils          |    |    |    |   |    |   | 1  |   |    |    | 1     |
| Labo d'hydraulique            |    |    |    |   |    |   |    |   | 1  |    | 1     |
| Labo thermodynamique          |    |    |    |   |    |   |    |   | 2  |    | 2     |
| Labo conn.matériaux           |    |    |    |   | 1  |   |    |   |    |    | 1     |
| Labo d'autom. mécan.          |    |    |    |   |    |   |    |   | 1  |    | 1     |
|                               | 20 | 21 | 20 |   | 20 |   | 21 |   | 23 | 21 | 103,5 |

## REPARTITION DES HEURES D'ENSEIGNEMENT

| SECTION : GENIE ELECTRIQUE    |    |    |    |   |    |   |    |   |    |    |       |
|-------------------------------|----|----|----|---|----|---|----|---|----|----|-------|
| Année<br>Semestre             | 1  |    | 2  |   | 3  |   | 4  |   | 5  |    |       |
|                               | 1  | 2  | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2  |       |
| <u>Discipl. générales</u>     |    |    |    |   |    |   |    |   |    |    |       |
| Conn. juridiques              | 1  |    |    |   |    |   |    |   |    |    | 1     |
| Conn. commerciales            | 1  |    |    |   |    |   |    |   |    |    | 1     |
| Français                      | 2  |    |    |   | 2  |   |    |   |    |    | 4     |
| Anglais                       |    |    | 4  |   |    |   |    |   |    |    | 4     |
| Art de la communic.           |    |    |    |   |    |   |    |   | 2  | 0  | 1     |
| <u>Discipl. scientifiques</u> |    |    |    |   |    |   |    |   |    |    |       |
| Mathématiques                 | 6  |    | 3  |   | 3  |   | 1  |   |    |    | 13    |
| Méth.numér./Info              | 3  | 2  | 1  |   | 1  |   | 1  |   | 2  |    | 7,5   |
| Physique                      |    |    | 4  |   | 2  |   | 2  |   |    |    | 8     |
| Chimie                        | 2  |    |    |   |    |   |    |   |    |    | 2     |
| Labo de physique              |    |    |    |   |    |   | 1  |   |    |    | 1     |
| <u>Discipl. techniques</u>    |    |    |    |   |    |   |    |   |    |    |       |
| Dessin de machines            | 3  |    |    |   |    |   |    |   |    |    | 3     |
| Mécanique                     | 1  |    | 2  |   |    |   |    |   |    |    | 3     |
| Conn. des matériaux           | 2  | 0  | 1  |   |    |   |    |   |    |    | 2     |
| Electrotechnique              | 0  | 2  | 3  |   | 4  |   | 3  |   | 2  |    | 8     |
| Electronique                  |    |    |    |   | 2  |   | 2  |   | 2  |    | 7     |
| Microprocesseurs              |    |    |    |   |    |   | 2  |   | 2  |    | 4     |
| Automatique électr.           |    |    |    |   |    |   | 1  |   | 2  |    | 3     |
| Techn.ingén.mécan.            |    |    | 3  |   | 3  |   | 2  |   | 2  |    | 6     |
| Machines électr.              |    |    |    |   | 2  |   | 2  |   | 2  |    | 6     |
| Centrales & Gd. inst.         |    |    |    |   |    |   | 2  |   | 2  |    | 4     |
| Télécommunications            |    |    |    |   |    |   | 3  |   | 2  |    | 5     |
| Labo mach. électr.            |    |    |    |   |    |   | 1  |   |    |    | 1     |
| Labo électronique             |    |    |    |   |    |   | 1  |   | 2  |    | 3     |
| Labo télécommunic.            |    |    |    |   |    |   | 1  |   | 2  |    | 3     |
| Labo microprocess.            |    |    |    |   |    |   | 1  |   | 2  |    | 3     |
| Labo autom.électri            |    |    |    |   |    |   |    |   | 2  |    | 2     |
|                               | 21 | 20 | 21 |   | 20 |   | 21 |   | 24 | 22 | 105,5 |