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L-7 and L-23 - CIVIL AND BUILDING ENGINEERING
INGEGNERIA CIVILE ED EDILE

CIVIL ENGINEERING
INGEGNERIA CIVILE

| 1st YEAR | credits |
|---|----------------|
| Design | 9 |
| Geometry | 6 |
| English Language | 3 |
| Mathematical Analysis I | 9 |
| Physics I | 9 |
| Applied Geology | 6 |
| Chemistry/Technology of Materials – integrated course | |
| - Chemistry | 6 |
| - Technology of Materials | 6 |
| 2nd YEAR | credits |
| Hydraulics | 9 |
| Rational Mechanics | 9 |
| Topography | 6 |
| Mathematical Analysis II | 6 |
| Technical Architecture | 9 |
| Technical Physics | 9 |
| Construction Theory | 9 |
| Physics II | 6 |
| 3rd YEAR | credits |
| Geotechnical Engineering | 9 |
| Hydrology | 6 |
| Construction Technique | 9 |
| Road Design | 9 |
| Transportation Technique and Economic and Civil Valuation – integrated course | |
| - Civil Evaluation | 6 |
| - Transportation Technique and Economics | 6 |
| Elective educational activities | 12 |
| Stage, practice, other activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

BUILDING ENGINEERING
INGEGNERIA EDILE

| 1st YEAR | credits |
|--|----------------|
| Design | 9 |
| Geometry | 6 |
| English language | 3 |
| Mathematical analysis I | 9 |
| Physics I | 9 |
| Applied geology | 6 |
| Chemistry/technology of materials – integrated course | |
| - Chemistry | 6 |
| - Technology of materials | 6 |
| 2nd YEAR | credits |
| Hydraulics | 9 |
| Rational mechanics | 9 |
| Topography | 6 |
| Mathematical analysis II | 6 |
| Technical architecture | 9 |
| Technical physics | 9 |
| Construction theory | 9 |
| Economics and land valuation | 6 |
| 3rd YEAR | credits |
| Geotechnical engineering | 6 |
| Building process management | 6 |
| Building construction technique | 9 |
| Town planning and environmental evaluation – integrated course | |
| - Environmental evaluation | 6 |
| - Town planning | 6 |
| Techniques and yards for building rehabilitation | 12 |
| Elective educational activities | 12 |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |
| Stage, practice and other educational activities | credits |
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

L-7- ENVIRONMENTAL ENGINEERING
INGEGNERIA PER L'AMBIENTE ED IL TERRITORIO

| 1st YEAR | credits |
|---|----------------|
| Physics I | 9 |
| Geometry | 6 |
| General and Inorganic Chemistry with elements of Organic Chemistry | 9 |
| Mathematical Analysis I | 9 |
| English Language | 3 |
| Design | 9 |
| Physics II | 6 |
| Mathematical Analysis II and Rational Mechanics – integrated course | |
| - Module I | 3 |
| - Module II | 6 |
| Applied Chemistry | 6 |
| 2nd YEAR | credits |
| Environmental Technical Physics | 9 |
| Applied Geology | 6 |
| Hydraulics | 9 |
| Construction Theory | 9 |
| Geotechnical Engineering | 9 |
| Sanitary-Environment Engineering | 9 |
| Topography | 6 |
| Stage, practice, other educational activities | 9 |
| 3rd YEAR | credits |
| Hydrology | 9 |
| Environmental Control Technique | 6 |
| Elective educational activities | 12 |
| Group of optional educational activities | 15 |
| Final examination | 6 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Stage | 6 |
| Stage | 9 |
| Stage | 8 |
| Stage | 3 |
| Stage | 7 |
| Stage | 5 |
| Stage | 4 |
| CAD Laboratory | 3 |
| Applied Topography – Laboratory | 3 |
| Regional Planning – Laboratory | 3 |
| Sanitary-Environmental engineering – Laboratory | 3 |
| Principles of Environment Law | 3 |
| Chemical Engineering – Laboratory | 3 |
| Yard Safety - Laboratory | 3 |

| Group of optional educational activities | credits |
|---|----------------|
| Sanitary-Environmental Treatment Plants | 9 |
| Slope Stability | 9 |
| Regional Planning | 6 |
| Territorial Information Systems for Soil Protection | 6 |

L-8- MANAGERIAL AND COMPUTER ENGINEERING
INGEGNERIA GESTIONALE E INFORMATICA

Managerial Engineering Curriculum - Curriculum gestionale

| 1st YEAR | credits |
|---|----------------|
| Chemistry | 6 |
| Computer Aided Design | 9 |
| Economics for Engineering | 6 |
| Electronic Calculators | 12 |
| Physics I | 12 |
| Geometry | 6 |
| Mathematics I | 12 |
| 2nd YEAR | credits |
| Automatic Control | 9 |
| Mathematics II | 6 |
| Operations Research | 9 |
| Construction Theory | 9 |
| Physics II | 6 |
| Quality Management and Product Development – integrated course | |
| - Module I | 6 |
| - Module II | 6 |
| Electrical Engineering | 6 |
| Statistics | 9 |
| 3rd YEAR | credits |
| Business Economics | 9 |
| Technical Physics | 6 |
| English Language | 3 |
| Production Management and Industrial Plant Management – integrated course | |
| - Module I | 9 |
| - Module II | 6 |
| Elective educational activities | 12 |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

Computer Engineering Curriculum - Curriculum Informatico

| 1st YEAR | credits |
|--|----------------|
| Chemistry | 6 |
| Computer Aided Design | 9 |
| Economics for Engineering | 6 |
| Electronic Calculators | 12 |
| Physics I | 12 |
| Geometry | 6 |
| Mathematics I | 12 |
| 2nd YEAR | credits |
| Automatic Control | 9 |
| Mathematics II | 6 |
| Programming | 9 |
| Operations Research | 9 |
| Physics II | 6 |
| Quality Management and Product Development – integrated course | |
| - Module I | 6 |
| - Module II | 6 |
| Electrical Engineering | 6 |
| Statistics | 9 |
| 3rd YEAR | credits |
| Computer Networks | 6 |
| Operating Systems | 9 |
| Data Bases and Software Engineering | 6 |
| English Language | 3 |
| Numerical Methods and Tools | 9 |
| Elective educational activities | 12 |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

L-8- COMPUTER AND COMMUNICATIONS ENGINEERING
INGEGNERIA INFORMATICA E DELLE TELECOMUNICAZIONI

Computer Engineering Curriculum – Curriculum Informatica

| 1st YEAR | credits |
|---|----------------|
| Chemistry | 6 |
| Electronic Calculators | 12 |
| Physics I | 12 |
| Geometry | 6 |
| Mathematics I | 12 |
| 2nd YEAR | credits |
| Mathematics II | 6 |
| Programming | 9 |
| Physics II | 6 |
| Electrical Engineering | 9 |
| Mathematical Physics | 9 |
| Numerical Methods and Tools | 9 |
| Computer Networks and Internet | 6 |
| 3rd YEAR | credits |
| Automatic Control | 9 |
| English Language | 3 |
| Operations Research | 6 |
| Operating Systems | 9 |
| Signal Theory | 9 |
| Algorithms and Data Structures | 6 |
| Data Bases | 6 |
| Principles of Electronics | 9 |
| Elective educational activities | 15 |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

Telecommunication Engineering Curriculum
Curriculum Telecomunicazioni

| 1st YEAR | credits |
|---|----------------|
| Chemistry | 6 |
| Electronic calculators | 12 |
| Physics I | 12 |
| Geometry | 6 |
| Mathematics I | 12 |
| 2nd YEAR | credits |
| Mathematics II | 6 |
| Programming | 9 |
| Physics II | 6 |
| Electrical engineering | 9 |
| Mathematical physics | 9 |
| Numerical methods and tools | 9 |
| Computer networks and Internet | 6 |
| 3rd YEAR | credits |
| Automatic control | 9 |
| English language | 3 |
| Operations research | 6 |
| Signal theory | 9 |
| Principles of telecommunication networks | 6 |
| Electrical communications | 6 |
| Digital signal processing | 6 |
| Principles of electronics | 9 |
| Elective educational activities | 18 |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

L-8 ELECTRONIC ENGINEERING
INGEGNERIA ELETTRONICA

| 1st YEAR | credits |
|---|----------------|
| Electronic Calculators | 12 |
| Physics I | 12 |
| Geometry | 6 |
| Mathematics I | 12 |
| English Language | 3 |
| Chemistry | 6 |
| 2nd YEAR | credits |
| Electrical Engineering | 9 |
| Mathematical Physics | 9 |
| Mathematics II | 6 |
| Physics II | 6 |
| Automatic Control | 12 |
| Electronic Devices | 9 |
| Principles of Electrical Communications | 9 |
| Elective educational activities | 12 |
| 3rd YEAR | credits |
| Other educational activities | 1 |
| Electromagnetic Fields | 9 |
| Economics for Engineering | 9 |
| Electric and Electronic Measurements | 9 |
| Practice | 2 |
| Electronics 1 | 9 |
| Electronics 2 | 6 |
| Digital Systems Electronics | 9 |
| Final examination | 3 |

L-9 MECHANICAL ENGINEERING
INGEGNERIA MECCANICA

Aeronautical Engineering Curriculum
Curriculum Aeronautico

| 1st YEAR | credits |
|--------------------------------------|----------------|
| Mathematic Analysis | 12 |
| Computer Applications | 3 |
| Computer Aided Design | 9 |
| Physics I | 9 |
| Chemistry | 9 |
| Geometry | 6 |
| Physics II | 6 |
| General Technology of Materials | 6 |
| 2nd YEAR | credits |
| Electrical Engineering | 9 |
| Principles of Applied Mechanics | 6 |
| Geometric Modelling of Machines | 6 |
| Construction Theory | 9 |
| Machine Construction | 9 |
| Technical Physics | 9 |
| Complements of Applied Mechanics | 6 |
| 3rd YEAR | credits |
| Aerospace Constructions | 6 |
| English Language | 3 |
| Machines | 9 |
| Mechanical and Thermal Measurements | 9 |
| Mechanical Technology | 9 |
| Aerodynamics | 9 |
| Elective educational activities | 12 |
| Stage, practice and other activities | 3 |
| Final examination | 6 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |
| Aerospace Structures Design - Laboratory | 3 |

Mechanical Engineering Curriculum
Curriculum Meccanico

| 1st YEAR | credits |
|--|----------------|
| Mathematic analysis | 12 |
| Computer applications | 3 |
| Computer aided design | 9 |
| Physics I | 9 |
| Chemistry | 9 |
| Geometry | 6 |
| Physics II | 6 |
| General technology of materials | 6 |
| 2nd YEAR | credits |
| Electrical engineering | 9 |
| Principles of applied mechanics | 6 |
| Geometric modelling of machines | 6 |
| Construction theory | 9 |
| Machine construction | 9 |
| Technical physics | 9 |
| Complements of applied mechanics | 6 |
| 3rd YEAR | credits |
| English language | 3 |
| Machines | 9 |
| Fluid mechanics | 6 |
| Mechanical and thermal measurements | 9 |
| Mechanical technology | 9 |
| Mechanical plants | 9 |
| Elective educational activities | 12 |
| Stage, practice and other activities | 3 |
| Final examination | 6 |
| Stage, practice and other educational activities | credits |
| Practice | 3 |
| SAE formula workshop | 3 |
| Image elaboration in mechanical engineering - laboratory | 3 |
| CAD - laboratory | 3 |
| CAM - laboratory | 3 |

L-9 – ENERGY ENGINEERING
INGEGNERIA DELL'ENERGIA

Electrical Engineering Curriculum
Curriculum Elettrica

| 1st YEAR | credits |
|---|----------------|
| Mathematical Analysis | 12 |
| Chemistry | 9 |
| Geometry | 6 |
| Physics I | 9 |
| English Language | 3 |
| Computer Aided Design | 9 |
| General Technology of Materials and Applied Chemistry | 6 |
| Physics II | 6 |
| 2nd YEAR | credits |
| Technical Physics | 9 |
| Principles of Electrical Engineering | 9 |
| Construction Theory | 9 |
| Machines | 9 |
| Principles of Nuclear Engineering | 9 |
| Electric Components and Systems | 9 |
| Elective educational activities | 6 |
| 3rd YEAR | credits |
| Energetics | 9 |
| Electrical Instruments and Measurements | 9 |
| Power Distribution Systems | 9 |
| Electrical Machines | 9 |
| Safety and Risk Analysis | 9 |
| Elective educational activities II | 6 |
| Stage, practice, other educational activities | 3 |
| Final examination | 6 |
| Stage, practice and other educational activities | credits |
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

Energetic And Nuclear Engineering Curriculum
Curriculum Energetica e Nucleare

| 1st YEAR | credits |
|---|----------------|
| Mathematical analysis | 12 |
| Chemistry | 9 |
| Geometry | 6 |
| Physics I | 9 |
| English language | 3 |
| Computer aided design | 9 |
| General technology of materials and applied chemistry | 6 |
| Physics II | 6 |
| 2nd YEAR | credits |
| Technical physics | 9 |
| Principles of electrical engineering | 9 |
| Construction theory | 9 |
| Machines | 9 |
| Principles of nuclear engineering | 9 |
| Electric components and systems | 9 |
| Elective educational activities | 6 |
| 3rd YEAR | credits |
| Energetics | 9 |
| Nuclear plants | 6 |
| Thermal hydraulics – integrated course | |
| - module I | 3 |
| - Module II | 3 |
| Energy management | 9 |
| Safety and risk analysis | 9 |
| Nuclear measurements and radioprotection | 6 |
| Elective educational activities II | 6 |
| Stage, practice, other educational activities | 3 |
| Final examination | 6 |
| Stage, practice and other educational activities | credits |
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |

L-9- CHEMICAL ENGINEERING
INGEGNERIA CHIMICA

| 1st YEAR | credits |
|---|----------------|
| Mathematical Analysis | 12 |
| Computer Aided Design | 9 |
| Geometry | 6 |
| Physics I | 9 |
| English Language | 3 |
| Chemistry | 9 |
| Physics II | 6 |
| Stage, practice, other educational activities | 6 |
| 2nd YEAR | credits |
| Organic Chemistry | 9 |
| Mathematical Physics | 6 |
| Rational Mechanics | 6 |
| Thermal Dynamics of Chemical Engineering | 12 |
| Principles of Chemical Engineering | 12 |
| Construction Theory | 9 |
| Applied Chemistry and Technology of Materials | 9 |
| Elective educational activities | 6 |
| 3rd YEAR | credits |
| Electrical Engineering | 9 |
| Chemical Plants | 12 |
| Machines | 9 |
| Principles of Industrial CHEMISTRY | 9 |
| Elective educational activities II | 6 |
| Final examination | 6 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Computer Applications | 3 |
| CAD Laboratory | 3 |
| Stage | 6 |
| Stage | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |
| Other educational activities | 4 |
| Other educational activities | 5 |
| Other educational activities | 6 |
| Stage | 5 |
| Stage | 4 |

L- 9 ELECTRICAL ENGINEERING
INGEGNERIA ELETTRICA

| 1st YEAR | credits |
|---|----------------|
| Mathematical Analysis | 12 |
| Computer Aided Design | 9 |
| Physics I | 9 |
| English Language | 3 |
| Chemistry | 9 |
| Technical Physics | 6 |
| Geometry | 6 |
| Physics II | 6 |
| 2nd YEAR | credits |
| Principles of Electrical Engineering .- integrated course | |
| - Modulo I | 6 |
| - Modulo II | 6 |
| Construction Theory | 9 |
| Electric and Electronic Measurements | 9 |
| Automatic Control | 6 |
| Electrical Machines | 9 |
| Electronics I | 6 |
| Power Electronics and Converters | 9 |
| 3rd YEAR | credits |
| Other educational activities | 1 |
| Electric Plants | 11 |
| Intelligent Systems for Electrical Engineering | 6 |
| Elective educational activities | 39 |
| Final examination | 3 |

L-9- MANAGEMENT ENGINEERING
INGEGNERIA GESTIONALE

| 1st YEAR | credits |
|--|----------------|
| Mathematical Analysis | 12 |
| Geometry | 6 |
| Business Information Systems | 6 |
| Physics I | 9 |
| English Language | 3 |
| Chemistry | 9 |
| Computer Aided Design | 9 |
| Physics II | 6 |
| 2nd YEAR | credits |
| Technical Physics | 6 |
| Construction Theory | 9 |
| General Technology of Materials | 6 |
| Economics for Engineering | 9 |
| Electrical Engineering | 6 |
| Statistics | 9 |
| Elective educational activities | 12 |
| 3rd YEAR | credits |
| Business Economics | 9 |
| Industrial Plants | 9 |
| Mechanical Technology | 9 |
| Industrial Production Management | 9 |
| Operations Research | 9 |
| Quality management and product development – integrated course | 6 |
| - Module I | 6 |
| - Module II | |
| Stage, practice, other educational activities | 3 |
| Final examination | 3 |

| Stage, practice and other educational activities | credits |
|---|----------------|
| Practice | 3 |
| Other educational activities | 1 |
| Other educational activities | 2 |
| Other educational activities | 3 |