

# FIRST YEAR PROGRAM (Semester 5) ECOLE SUPERIEURE DU BOIS

| Head of unit Unit of teaching |   | Unit of teaching                                    | Teaching                                      | Courses name                             | Hours                                      | Credits |  |
|-------------------------------|---|---|---|--|--|---------|--|
| Sébastien RINCE               | Sébastien RINCE SPECIALITY OPENING Logistics and Production |   | The Productive System                         | Large Scale Production                   | 12:00                                      | 1       |  |
| Sébasti                       | SPECIALIT   | Logistics an  |   | Organization of Productive Systems       |  |         |  |
|                               |   |   | Professional Project                          | Professional Project ("Speed Défi")      |  |         |  |
| N.                            |   | Autonomy, Personal<br>Development and<br>Management |   | Software knowledge                       |  |         |  |
| Marion ROUSSEAU               |   | utonomy, Persona<br>Development and<br>Management   | Communication                                 | Behaviour Approach                       | 56:00                                      | 4       |  |
| õ                             |   | y, Pe<br>mer<br>gerr                                |   | Integration module                       |  |         |  |
| Ē                             |   | om)<br>lop<br>ana <sub>8</sub>                      |   | Writing skills                           |  |         |  |
| ario                          |   | ton<br>eve<br>Ma                                    | Management                                    | Group Management                         |  |         |  |
| Ξ                             |   | Au  | School information                            | School Information                       | 20:40                                      | 2       |  |
|                               |   |   | Long term Project                             | Long term Project                        |  |         |  |
|                               |   |   | Timber industry                               | Overview of the Timber Industry          |  |         |  |
|                               |   | <u> </u>  | ,   | Presentation of the Timber Industry      |  |         |  |
| 9                             |   | nab<br>t  |   | Wood Chemistry                           |  |         |  |
| Franck MICHAUD                | stair<br>nen  |   | Physics and Hygroscopy of Wood                |  |  |         |  |
|                               | Sus   | Wood Sciences                                       | Plant Biology                                 | 89:20                                    | 6  |         |  |
|                               |   | and   | d and Sustain<br>Development<br>Mood Sciences |  | Natural Durability and Singularity of Wood | _       |  |
|                               | Wood and Sustainable<br>Development                         |   | Anatomy & species recognition uses            |  |  |         |  |
|                               |   |   | Variability and wood utilisation              |  |  |         |  |
|                               |   |   | Forest and Substainable Development           | Life cycle assesment                     |  |         |  |
|                               |   |   | Biodiversity and Systematics                  |  |  |         |  |
| Ν                             |   | Business Administration                             | Business Administration                       | Cost Approach                            |  |         |  |
| Isabelle<br>MARTINEZ          | Corporate   |   | Economical Intelligence                       |  | 3  |         |  |
|                               |   | Business Logistics                                  | Internal Logistics                            | 39:20                                    |  |         |  |
|                               | 8 0   | Internship  | Internship Preparation                        |  |  |         |  |
|                               |   |   | le au i                                       | Internship Fair                          |  |         |  |
|                               |   | p s   | English                                       | Business English                         |  |         |  |
| 꿆                             |   | l an<br>nes   | Culture and Philosophy                        | Philosophy                               |  |         |  |
| 빀                             |   | tura  |   | German                                   |  |         |  |
| Ä                             |   | cult<br>o l   |   | Spanish                                  | 56:40                                      | 3       |  |
| <u> </u>                      |   | es, e   | Second Language                               | Russian                                  |  | 3       |  |
| Julie BRUNELLIERE             |   | Languages, Cultural and<br>International Openness   | Second Language                               | Portuguese<br>Chinese                    | _  |         |  |
|                               |   | angi<br>iteri                                       |   | Strengthen English                       | _  |         |  |
|                               |   | 2 5   |   | French                                   |  |         |  |
| 1.1                           |   | χ   |   | Study and representation : Wood/mechanic |  |         |  |
| Š                             |   | ind<br>tice   | Industrialization                             |  |  |         |  |
| <u></u>                       | Sébastien RINCE   | Innovation and<br>dustrial Practic                  | Industrialization                             | Methods                                  |  |         |  |
| tier                          |   | /atic   |   | CAO                                      | 100:00                                     | 4       |  |
| bas                           |   | ınov<br>ıstr  | Workshop                                      | Security                                 |  |         |  |
| Sél                           |   | Innovation and<br>Industrial Practices              | WS_Speed DEFI                                 | Speed Project called DEFI                |  |         |  |
| щ                             |   |   |   | Chemistry                                |  |         |  |
| Ş                             |   | nen   | Physics / Chemistry                           | Thermodynamics                           |  | _       |  |
| ပ် ပြ                         |   | undament<br>  Sciences                              | Mechanics                                     | Solid mechanics                          | 75:40                                      | 5       |  |
| C.<br>BELLONCLE               |   | Fundamenta<br>I Sciences                            | Mathematics                                   | Maths for Engineers                      |  |         |  |
|                               |   |   |   | Project Management                       | 20:00                                      | _       |  |
| Clément<br>BOUDAUD            |   | Engineer<br>Sciences                                | Continuous Improvement and Project            | Continuous Improvement Approach          |  | 2       |  |
|                               |   |   | TOTAL SEMESTER 5 First                        | year                                     | 469:40                                     | 30      |  |
|                               |   |   |   |  |  |         |  |



# FIRST YEAR PROGRAM (Semester 6) ECOLE SUPERIEURE DU BOIS

| Head of unit Unit of teaching |   |   | Teaching                                    | Courses name   | Hours              | Credits |  |
|-------------------------------|---|---|---|--|--------------------|---------|--|
| . J                           | ation s   |   | A4  | Cubing and Dendrometry                                   |                    |         |  |
| Jérôme<br>MOREAU              | NIN   | ustrializati<br>of Forest<br>Products   | A1  | Wood Classification                                      | 28:00              | 3       |  |
| Jér<br>MO                     | SPCELLIATY OPENING  | Industrialization<br>of Forest<br>Products  | Sawmill Workshop                            | WS_Sawmill (resin flow/hardwood)                         |                    |         |  |
| sca<br>'A                     | ELLIA   | nce<br>od<br>gr   |   | Introduction to Building Site                            |                    |         |  |
| Francesca<br>LANATA           | SPCE  | Assistance<br>in Wood<br>Building<br>Process  | Introduction to Buidling                    | Introduction to Dimensioning                             | 14:40              | 1       |  |
| Marion<br>ROUSSEAU            |   | Autonomy,  Bersonal  Consider t and |   | School information                                       | 16:40              | 4       |  |
| NO.                           |   | Aut<br>Pe<br>Deve<br>t<br>Man   | Long term project                           | Long term project  |                    |         |  |
|                               |   | ole   | Timber Industry                             | Presentation of Timber Industry                          |                    |         |  |
| ΔN                            |   | nab<br>It   | Wood Sciences                               | Natural Durability and Singularity of Wood               |                    |         |  |
| ¥                             |   | stai<br>nen   |   | Life cycle assesment                                     |                    |         |  |
| Θ                             |   | Sus   | Forest and Sustainable Development          | Biodiversity and Systematics                             | 36:00              | 3       |  |
| Franck MICHAUD                |   | Wood and Sustainable<br>Development   | Polest and Sustamable Development           | Forestry, Sustainable Management and Forest in the World |                    |         |  |
| ш.                            |   | Woo   | Wood Products                               | Paper Mill   |                    |         |  |
|                               |   | ·   |   | Management Control                                       |                    | 4       |  |
| le<br>EZ                      |   | and<br>te   | Business Administration                     | Economical Intelligence                                  |                    |         |  |
| isabelle                      |   | isiness ar<br>coporate<br>cultures  | Logistics Business                          | Internal Logistics, Deepening                            | 45:20              |         |  |
| isabelle<br>MARTINEZ          |   | Business and<br>coporate<br>cultures  | Regulation and Liability                    | Regulatory Framework of the company                      |                    |         |  |
|                               |   | В   | Internship                                  | Internship Preparation                                   |                    |         |  |
|                               |   |   | English Business English S6                 |  |                    |         |  |
|                               | br %  | Culture and Philosophy  | Philosophy                                  |  |                    |         |  |
| ä                             |   | al ar<br>ning   | Culture and Filliosophy                     | Interculture   |                    |         |  |
|                               |   | Languages, Cultural and<br>International opening  | tura  | German   | German             |         |  |
| Ä                             |   |   |   | Spanish  | 55:20              | 4       |  |
| 3RU                           |   |   |   | Russian  |                    | 4       |  |
| Julie BRUNELLIE               |   |   | Language<br>Internat                        | Second Language  | Portuguese         |         |  |
| lπ                            |   |   |   |  | Chinese            |         |  |
|                               |   |   |   |  | Strengthen English |         |  |
|                               |   |   |   | French   |                    |         |  |
| stien<br>ICE                  |   | ion and<br>strial<br>tices  | Workshop                                    | Dispersion, Measurement, Metrology                       | 24:00              | 2       |  |
| Séba<br>RIN                   | Sébastien<br>RINCE<br>Innovation and<br>Industrial<br>Practices |   | Workshop                                    | Manufacturing  | 24.00              | 2       |  |
|                               |   | es  | Physics / Chemistry                         | Fluid Mechanics  |                    |         |  |
|                               |   | enc   | Mechanics                                   | Materials Resistance                                     |                    |         |  |
| Christophe<br>BELLONCLE       |   | Fundamental Sciences  | Material Choice and Constructive Principles | Assembling   |                    |         |  |
| Christophe                    |   | ntal  | Surfaces & Interfaces                       | Surfaces & Interfaces                                    | 122:20             | 7       |  |
| Shri<br>ELL                   |   | meı   | Improved Natural Desferences                | Wood Finish  |                    |         |  |
| B                             |   | лда   | Improved Natural Performance                | Bonding Wood   |                    |         |  |
|                               |   | Fur   | Mathematics                                 | Maths for Engineers                                      |                    |         |  |
| Franck                        |   | Engineer<br>Sciences  | Continuous Improvement and Project          | Continuous Improvement Approach                          | 31:00              | 2       |  |
| Frai                          |   | Engii<br>Scier  | Industrial Sciences                         | Electrical Engineering                                   | 31.00              | ۷       |  |
|                               |   |   | TOTAL SEMESTER 6 First year                 | ar   | 373H20             | 30      |  |
|                               |   |   |   |  |                    |         |  |



# SECOND YEAR PROGRAM (Semester 7) ECOLE SUPERIEURE DU BOIS

| Head of unit            | Unit of teaching                                 | Teaching                               | Courses name                                    | Hours          | Credits  |          |   |
|-------------------------|--|--|---|----------------|--|----------|---|
| ure<br>TE               | ona<br>g   | Purchases and Sales                    | Purchases                                       |                |  |          |   |
| Anne Laure<br>MARIOTTE  | Internationa<br>I Trading                        | Turonases and Gales                    | Sales   | 32:20          | 2  |          |   |
| nne<br>IAR              | tern   | Introduction to International Business | Introduction to International Business          |                | _  |          |   |
| Ā≥                      | In<br>L  | ·                                      |   |                |  |          |   |
|                         | l<br>e<br>nt                                     | Timber Industry                        | Overview of Timber Industry                     |                |  |          |   |
| Franck<br>MICHAUD       | Wood and<br>Sustainable<br>Development           | Forest and Sustainable Development     | Introduction to Life Cycle Assessment           |                |  |          |   |
|                         | od r<br>tain                                     | Torost and Gastamasic Beveropment      | Forest and Society                              | 46:30          | 4  |          |   |
| ΞŽ                      | Wo<br>Sust                                       | Wood-based Material                    | Wood-based composites                           |                |  |          |   |
|                         | ٥  | Wood-based Waterial                    | Wood and Other Materials                        |                |  |          |   |
| Z                       | 4)   | Economical Intelligence                | Economical Intelligence                         |                |  |          |   |
| Isabelle MARTINEZ       | Corporate Culture                                | Business Economy                       | Financial Analysis                              |                |  |          |   |
| IRT                     | Culi   | Business Logistics                     | External Logistics                              |                |  |          |   |
| Σ                       | ate  | Rules and Responsibility               | Societal Responsibility                         | 48:00          | 4  |          |   |
|                         | oore   | Internable                             | Internship Preparation                          |                |  |          |   |
| abe                     | Sorp   | Internship                             | Grant Internship                                |                |  |          |   |
| <u> </u>                |  | Marketing strategy                     | Marketing                                       |                |  |          |   |
|                         | Languages, Cultural and<br>International Opening | English                                | English for Wood Industry                       |                |  |          |   |
| Julie BRUNELLIERE       |  | Culture and Philosophy                 | Philosophy                                      |                |  |          |   |
|                         |  |  | German  | 1              |  |          |   |
|                         |  |  | Spanish   |                |  |          |   |
|                         |  |  |   | Russian        | 46:40  | 4        |   |
|                         |  |  | Second Language                                 | Portuguese     |  |          |   |
| ie E                    |  |  |   | Chinese        |  |          |   |
| ī                       |  |  | Strengthen English                              |                |  |          |   |
|                         | _  |  | French  |                |  |          |   |
| -                       | v  | St - s                                 |   | Methods        | +  |          |   |
| Sébastien<br>RINCE      | tion<br>d<br>trial<br>ces                        | Industrialization                      | CAD Software                                    | <b>1</b>       |  |          |   |
| ébastie<br>RINCE        | Innovations<br>and<br>Industrial<br>Practices    | Innova<br>and<br>Indus:<br>Practi      | Innova:<br>and<br>Indusi<br>Practi              | Workshop       | Manufacturing                                    | 30:40    | 2 |
| Sél<br>R                |  |  |   | Design Project | P2I Project                                      | $\dashv$ |   |
|                         | _  | Selection of Materials and Building    |   | 1              |  |          |   |
|                         | _  | _                                      |   | Principles     | Assembly   |          |   |
| he<br>YE be             | nta  | ·                                      | Insects   |                |  |          |   |
| top                     | Fundamental<br>Sciences                          | Biotic Factors                         | Mycology  | 59:20          | 4  |          |   |
| Christophe<br>BELLONCLE | nda<br>Scie                                      |  | Preservation Process                            |                |  |          |   |
| 고 찖                     | Eui O  | Improvement of Performances            | Drying Process                                  |                |  |          |   |
|                         |  | PRTT                                   | PRTT : Research and Technology transfer Project |                | 4  |          |   |
|                         |  |  | Project Management (PRTT/P2I)                   |                |  |          |   |
| Q                       | sec  | Continuous Improvement and Project     | Continuous Improvement Approach                 | $\dashv$       |  |          |   |
| Franck MICHAUD          | Engineer Sciences                                |  | Probabilities and Applied Statistics            | $\dashv$       |  |          |   |
| AIC                     | Sci  |  | Operational Research                            | 50:00          | 6  |          |   |
| X<br>X                  | eer  |  | Automation and Industrial Data Processing       | -              |  |          |   |
| anc                     | gin  | Industrial Sciences                    | Aeraulic  | -              |  |          |   |
| Ė.                      | En   | industrial sciences                    |   | $\dashv$       |  |          |   |
|                         |  | Modeling Information System            |   | -              | <del>                                     </del> |          |   |
|                         |  | TOTAL SEMESTER 7 Second                | d year  | 370H50         | 30   |          |   |
|                         |  |  |   |                |  |          |   |



# SECOND YEAR PROGRAM (Semester 8) ECOLE SUPERIEURE DU BOIS

| Peace of unit   Unit of teaching   Teaching   Courses name   Hours   Credits   | Sciences & technologies du bois |  |  |  |        |         |
|--|---------------------------------|--|--|--|--------|---------|
| Professional Project   Professional Project   Professional Project (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period)   Professional Professional Project (after training   | Head of unit                    | Unit of teaching                                 | Teaching                                 | Courses name                                     | Hours  | Credits |
| Professional Project   Professional Project   Professional Project (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period (after training period)   Professional Project (after training period)   Professional Professional Project (after training   | astien<br>NCE                   | istics<br>nd<br>uction                           | Computerized Management of Systems       | Computer-Aided Manufacturing                     | 28:00  | 2       |
| Professional Project   Professional Project (after training period)   Professional Project (after tr   | Séba<br>RI                      | Log<br>a<br>Prod                                 |  | Enterprise Ressources Planning - Business Affair |        | _       |
| Professional Project (after training period)   30:40   4   | а                               | ing<br>ing                                       |  | Introduction to Structural Design                |        |         |
| Professional Project   Professional Project   Professional Project (after training period)   30:40   4   | esc                             | ance<br>3uild<br>cess                            | Introduction to Architectural Concention | Architecture and Building Concepts               | 60:00  | 3       |
| Professional Project   Professional Project (after training period)   30:40   4  | rand<br>LAN                     | ssist<br>ood E<br>Pro                            | The odd of the Atomic octural conception | Introduction to Thermal Building                 | 00.00  |         |
| Timber industry  Presentation of Timber Industry + conferences  Forest and Substainable Development  Thematic week : sustainable development  Promote and Substainable Development  Thematic week : sustainable development  Thematic week : susta | Œ.                              |  |  | Building Workshop                                |        |         |
| Timber industry  Presentation of Timber Industry + conferences  Forest and Substainable Development  Thematic week: sustainable development  Promote and Substainable Development  Thematic week: sustainable  | on<br>EAU                       | my,<br>nal<br>ment<br>ment                       | Professional Project                     | Professional Project (after training period)     |        |         |
| Timber industry  Presentation of Timber Industry + conferences  Forest and Substainable Development  Thematic week : sustainable development  Promote and Substainable Development  Thematic week : sustainable development  Thematic week : susta | /aric                           | tono<br>ersol<br>elop<br>and<br>and              | Communication                            | Oral Communication                               | 30:40  | 4       |
| Business Economy Logistic of compagny Rules and Responsability Internship Internship Presentation Marketing Strategy  External logistic Rules and Responsability Internship Presentation Marketing Strategy  English Business skills  English Business skills  Philosophy Interculture  Philosophy Interculture  Philosophy Interculture  Philosophy Interculture  Philosophy Industrial Manufacturing Design Project P2I Project P2I Project P3 Systemic Analysis Project Management (PRTT/P2I) Systemic Analysis Industrial Science  P5:20  34:00  4  Value Analysis Project Management (PRTT/P2I) Systemic Analysis Foreign Modeling Information System  P5:20  34:00  4  Value Analysis Foreign Modeling Information System  | A OR                            | Au<br>Po<br>Dev<br>Mar                           | School Living                            | School Living                                    |        |         |
| Business Economy Logistic of compagny Rules and Responsability Internship Internship Presentation Marketing Strategy  External logistic Rules and Responsability Internship Presentation Marketing Strategy  English Business skills  Philosophy Interculture  Philosophy Interculture  Philosophy Interculture  Philosophy Interculture  Philosophy Interculture  Obesign Workshop Industrial Manufacturing Design Project P2I Project P2I Project Management (PRTT/P2I) Systemic Analysis  Industrial Science  Industrial Science  Industrial Science  Industrial Family Modeling Information System   | ck<br>4UD                       | Franck MICHAUD Wood and Sustainable Developmen t | Timber industry                          | Presentation of Timber Industry + conferences    |        |         |
| Logistic of compagny Rules and Responsability Internship Marketing | Fran<br>MICH,                   |  | Forest and Substainable Development      | Thematic week : sustainable development          | 25:20  | 1       |
| Business skills   Philosophy   Interculture   Philosophy   Philosoph   | Isabelle MARTINEZ               | es   | Business Economy                         | Business Economy                                 |        |         |
| Business skills   Philosophy   Interculture   Philosophy   Philosoph   |                                 | s and ultur                                      | Logistic of compagny                     | External logistic                                |        |         |
| Business skills   Philosophy   Interculture   Philosophy   Philosoph   |                                 | ness<br>ite ci                                   | Rules and Responsability                 | Societal Responsability                          | 51:00  | 6       |
| Business skills   Philosophy   Interculture   Philosophy   Philosoph   |                                 | Busi   | Internship                               | Internship Presentation                          |        |         |
| R&D Studies   Design   |                                 | 8  | Marketing Strategy                       | Marketing  |        |         |
| R&D Studies   Design   Studies   St | IERE                            | ges,<br>and<br>onal                              | English                                  | Business skills                                  |        |         |
| R&D Studies   Design   Studies   St | Julie                           | guag<br>ural a<br>rnatic                         |  | Philosophy                                       | 34:00  | 4       |
| Workshop Design Project  P2I Project  Value Analysis  Project Management (PRTT/P2I)  Systemic Analysis  Thermal Transfer and Energy Modeling Information System  38:40  3  38:40  3  38:40  3  38:40  3  38:40  3  38:40  3  38:40  3  38:40  3  7  7  8  8  8  9  9  9  9  9  9  9  9  9  9   | BRUN                            | Lan<br>Cult<br>Inter<br>op                       | Culture and Philosophy                   | Interculture                                     |        |         |
| Value Analysis Project Management (PRTT/P2I) Systemic Analysis Industrial Science  Value Analysis Project Management (PRTT/P2I) Systemic Analysis Thermal Transfer and Energy Modeling Information System  | ien<br>E                        | ion<br>ial<br>es                                 | R&D Studies                              | Design   | 38.40  | 3       |
| Value Analysis Project Management (PRTT/P2I) Systemic Analysis Industrial Science  Value Analysis Project Management (PRTT/P2I) Systemic Analysis Thermal Transfer and Energy Modeling Information System  | bast                            | ovat<br>and<br>dustr<br>actic                    | Workshop                                 | Industrial Manufacturing                         | 30.40  | 3       |
|  | Sé<br>F                         | Inn<br>Inc                                       | Design Project                           | P2I Project                                      | 28H00  | 4       |
|  | AUD                             | ses  | 88                                       | Value Analysis                                   |        |         |
|  | /anc                            | Con  | Continuous Improvement and Project       | Project Management (PRTT/P2I)                    | _      |         |
|  | nt BC                           | er S   |  | Systemic Analysis                                | 59:20  | 3       |
|  | émer                            | gine   | Industrial Science                       |  |        |         |
| TOTAL SEMESTER 8 Second Year 337:40  | Ö                               | Ē  |  | Modeling Information System                      |        |         |
|  |                                 |  | TOTAL SEMESTER 8 Second Y                | ear  | 337:40 | 30      |



#### THIRD YEAR SUPPLY CHAIN AND WOOD MODIFICATION PROGRAM (SEMESTER 9) ECOLE SUPERIEURE DU BOIS

| Professor             | Unit of<br>teaching              | Course name   | Course name  | Hours | Credits |
|-----------------------|----------------------------------|---|--|-------|---------|
| J. Moreau / M. Charru |                                  | Knowledge of French forest                            | Forest stand diagnosis   | 23,5  |         |
| F. Benest             |                                  | The stage of French Toron                             | Knowledge of forest resources (National forest inventory data)           | 14    |         |
| S. Coudert            | ion                              |   | Forestry expertise and mobilization of wood in private forests           | 6     |         |
| P. Verry              | Wood sector organization         | Timber trading  | Forestry expertise and mobilization of wood in national forests          | 4     |         |
| JD. Cruse             | orga                             |   | Marketing and contracting of wood supply                                 | 3     | 6       |
| J. Moreau             | ector                            |   | Roundtable with actors: Governance, forest policy                        | 9     | Ü       |
| J. Moreau             | s poc                            | Coverance and players of the wood coster in Aguitains | Roundtable with actors: forest management                                | 6     |         |
| J. Moreau             | Š                                | Goverance and players of the wood sector in Aquitaine | Roundtable with actors : Forest sector organization                      | 6     |         |
| F. Guiraud            |                                  |   | Wood supply strategy of the pulp industry in Aquitaine                   | 3     |         |
| J. Moreau             |                                  | Case study  | Case study on wood sector organization                                   | 1     |         |
| O. Picard             |                                  |   | Wood species identification (logs)                                       | 12    |         |
| J. Moreau             | rial /                           | Wood: products and uses                               | Stands inventories : quality estimation of standing trees                | 4     |         |
| J. Moreau             | mate<br>I proc                   |   | species & uses (french wood)   | 3     |         |
| M. Chaumet            | raw                              |   | Focus on Douglas fir: forest practices, uses                             | 4     | 4       |
| H. Lemaire            | wood<br>on of                    |   | Focus on Poplar: forest practices, uses                                  | 3     |         |
| P. Langbour           | Use of wood raw material /       | Wood value chain                                      | Tropical forest : planning, harvesting, primary processing               | 14    |         |
| M. Irle               | Us va                            |   | Wood panels : manufacturing process, example company visits              | 19    |         |
| E. Cacot              |                                  |   | Production and harvesting of timber (World, Europ, France)               | 8     |         |
| E. Emeyriat           |                                  |   | Forest harvesting and mechanization techniques                           | 8     |         |
| E. Emeyriat           | sting                            | Wood harvesting techniques                            | Technical management of forestry operations                              | 4     |         |
| PJL. Lonca            | Wood Harvesting                  |   | Driving simulator of wood harvester                                      | 8     | 3       |
| S. Gourdet            | 1 poo                            |   | Forest Contractors   | 3     |         |
| DFCI                  | – š                              |   | Forest Fire-fighters organization  | 2     |         |
| A. Bel                |                                  |   | Safety management in the forestry sector                                 | 8     |         |
| A. Arraiolos          |                                  |   | Basic concepts of logistics and flow optimization                        | 6     |         |
| A. Arraiolos          |                                  | Wood supply chain                                     | Analysis of the wood supply chain of an operator in the timber industry  | 6     |         |
| A. Arraiolos          | sport                            |   | Logistics of roundwoods : theory   | 6     |         |
| A. Arraiolos          | trans                            |   | Logistics of roundwoods : case study                                     | 6     |         |
| A. Arraiolos          | and                              | Logistics of roundwoods transportation                | Wood supply game   | 8     | 5       |
| T. Carette            | chair.                           |   | Forestry operation Innovation  | 3     |         |
| R. Emeyriat           | Supply chain and transport       |   | Timber transportation regulations  | 3     |         |
| N. Toulon             | Su                               | Geographic information system                         | GIS, GPS & Mapping   | 4,5   |         |
| G. Grigaut            |                                  | Logistics and environment                             | Chain of Custody FSC / PEFC. General principles and                      | 3     |         |
| J. Moreau             |                                  | Sawmill supplying                                     | implementation example  Lumber yards organization                        | 3     |         |
| JP. Froustey          |                                  | эм эмритир  | Sawmill school: visits and practical work on each work station of        | 28    |         |
| F. Bontoux            | Sawmill                          | Sawing techniques                                     | a sawmill Sawing Optimization: visits and studies of the most innovative | 28    | 4       |
| J. Moreau             | - Sa                             |   | techniques  Qualitative visual grading of roundwood                      | 14    |         |
| JD. Lanvin            |                                  | Wood sorting (logs, sawn board)                       | Structural timber grading  | 4     |         |
| R. Emeyriat           | 70                               | Business law  | Business law   | 8     |         |
| S. Millet             | e auc                            | Forest trade talks                                    | Forest trade talks   | 16    |         |
|                       | Company knowledge and management | Management and business simulation                    | Management and business simulation                                       | 32    |         |
| R. Wallace            | know                             | English courses                                       | English courses  | 18    | 4       |
| J. Moreau             | pany                             | Company visits  | Company visits   | 60    |         |
| J. Moreau             | Comi                             | Field trip  | Field trip   | 29    |         |
| J. Moreau             | Project                          | Industrial project                                    | Industrial project   | 10    | 4       |
|                       | Pro                              |   | project  |       |         |
|                       |                                  | TOTAL SEMESTER 9 Third year                           |  | 471 H | 30      |



## THIRD YEAR PRODUCTION/LOGISTICS PROGRAM (SEMESTER 9) ECOLE SUPERIEURE DU BOIS

| Professor                                 | Unit of teaching                        | Course name                              | Hours | Credits |
|---|---|--|-------|---------|
| S. Rincé/Cyrille Mengin                   | Managemen<br>t of<br>production         | Kanban games                             | 8     | 3       |
| R. Abbou/S.Merour (IUT)                   | Manag<br>t                              | ERP improvement                          | 16    | )       |
| S. Rincé/Victor Martin Biesse             | l of<br>ial<br>ion                      | Automatization production line           | 15    |         |
| C. Buchholzer                             | Material of<br>industrial<br>production | Cutting tools                            | 8     | 3       |
| Mr Poirier/ Mr Lebailly/ Mr Nestout       | Ma<br>inc<br>pro                        | Servo system                             | 6     |         |
| Isabelle Martinez                         | y<br>by<br>nent                         | Quality                                  | 16    |         |
| Régis Accard                              | Quality<br>security<br>environnment     | Risk prevention and environment          | 12    | 4       |
| J-L Dothee                                | S<br>St<br>enviir                       | Process of product certification         | 18    |         |
| Thierry Sauvage                           |   | Improvement of the external supply chain | 12    |         |
| Jérôme Lemaire                            | lain                                    | Improvement of the internal supply chain | 10    |         |
| Louise Leclerre / David Fortineau         | Supply chain                            | Information System                       | 23    | 5       |
| Pierre Castagna                           | dns                                     | Production flows simulation              | 14    |         |
| M. Maher                                  |   | Technical English                        | 24    |         |
| Daniel Leroux / S. Rincé                  | /Pro<br>ty                              | Industrial organisation                  | 48    |         |
| B. Martinat                               | Methods/Pro<br>ductivity                | Workshop location                        | 12    | 6       |
| Caroline RIVAL                            | Meth                                    | Management control                       | 16    |         |
|   | seo                                     | Production Study trip                    | 35    |         |
| Tutor                                     | Professional practices                  | Production Cycle Project                 | 200   |         |
| F. Graff                                  | onal p                                  | Internship preparation                   | 18:40 | 9       |
| G. Elineau                                | fessic                                  | Labor law                                | 12    |         |
| C. Veret+ +V. Lepel Cointet + C. Papineau | Prof                                    | Company seminary                         | 40    |         |
| TOTAL SE                                  | 545h40                                  | 30                                       |       |         |



#### THIRD YEAR WOOD BUILDING PROGRAMME (Semester 9) ECOLE SUPERIEURE DU BOIS

| Professor  | Unit of<br>teaching            | Course name                            | Teaching language | Hours | Credits |
|--|--------------------------------|--|-------------------|-------|---------|
| C. Griffon   | Se                             | Technical English                      | French            | 18    |         |
| J. Elineau   | octio                          | Labor laws                             | French            | 12    | 1       |
| F. Graff - RCAs                                    | - Pra                          | Internship preparation                 | French            | 5:20  | 5       |
| C. Veret + V. Lepel Cointet + C. Papineau          | iona                           | Business Simulation week               | French            | 32    |         |
| F. Lanata - G. Simon - C. Boudaud                  | Professional Practices         | Timber in construction - Market trends | French            | 8     | 1       |
| F. Lanata  | Pro                            | Business trip                          | French            | 32    | 1       |
| A. Godevin   |                                | Programming and feasibility            | French            | 2:40  |         |
| P. Meignen   |                                | Architectural intents                  | French            | 2:40  |         |
| C. Boudaud   | <b>1</b>                       | Construction motorials                 | French            | 8     | 1       |
| . Bonneville                                       | men                            | Construction materials                 | French            | 4     |         |
| /l. Pautou   | obr                            |  | French            | 16    | 4       |
| . Lanata   | - See                          | Building construction techniques       | French            | 12    |         |
| /isits   | <b>T</b>                       |  | French            | 8     |         |
| . Rouillard  | Design development             | Building laws and regulations          | French            | 12    |         |
| C. Belloncle                                       | <u> </u>                       | Environnemental impact                 | French            | 8     |         |
| a. Simon   |                                | Building energy systems                | French            | 8     |         |
| ). Saint-Ouentin                                   |                                | Eco-labelling and certification        | French            | 8     |         |
| . Lanata   | _                              | Structural design                      | French            | 52    |         |
| C. Boudaud   | Structural<br>design           |  | French            | 8     |         |
| F. Lanata + D. Quidet + MDBat                      | tructura                       | Structural design softawares           | French            | 14    | 5       |
| /arious specialists                                | Str                            | Technical conferences                  | French            | 20    | 1       |
| ). Battais   | Building construction sciences | Computer-aided building design         | French            | 28    |         |
| G. Simon   | S ruck                         | Building envelope performances         | French            | 18    | 5       |
| . Rouillard  | ng constri<br>sciences         |  | French            | 12    |         |
| F. Monnet  | Gier C                         |  | French            | 8     |         |
| 3. Suner   | din                            |  | French            | 8     |         |
| o define   | Buil                           | Building costs engineering             | French            | 11    |         |
| -F. Foucault                                       | truc                           | Thematic days                          | French            | 40    |         |
| I-F. Foucault                                      | Construc<br>tion site          | Construction site visits               | French            |       | 4       |
| N. Jamet   |                                | Maintenance/pathology                  | French            | 05:20 |         |
| F. Lanata + B. Guenego                             | Service life                   | Building performances monitoring       | French            | 11    | 2       |
| F. Maindron  | Z.                             | Rehabilitation                         | French            | 3     |         |
| R. David   |                                | Demolition                             | French            | 3     |         |
| Futeurs (Simon, Boudaud, Lanata, Cornec, Papineau) | Project                        | Semester project                       | French            | 10    | 5       |
| тот  | 451H                           | 30                                     |                   |       |         |



### THIRD YEAR INTERNATIONAL TIMBER TRADE PROGRAMME (Semester 9) ECOLE SUPERIEURE DU BOIS

| T. Ramananantoandro & P. Corbineau  J. H. Park  C. Duhesme  E. Groutel  AL Mariotte  A. Malavé  A. Malavé  G. Atwal | International timber trade   Wood and international | Species recognition  Wood classification  Certification and traceability  Worldwide wood exchanges | English English English | 18<br>12<br>15 | 8 |
|---|---|--|-------------------------|----------------|---|
| C. Duhesme E. Groutel AL Mariotte A. Malavé A. Malavé   |   | Certification and traceability   | English                 |                | 8 |
| E. Groutel<br>AL Mariotte<br>A. Malavé<br>A. Malavé   |   |  |                         | 15             | _ |
| AL Mariotte<br>A. Malavé<br>A. Malavé   |   | Worldwide wood exchanges   | For elliptic            | 1              |   |
| A. Malavé<br>A. Malavé  | oer trade   |  | English                 | 24             |   |
| A. Malavé   | Jer 1   | International trade techniques   | English                 | 21             |   |
|   | Ĕ   | International negotiations   | English                 | 18             |   |
| a. Atwal  | nal ti  | Intercultural management   | English                 | 12             | 6 |
|   | natio   | International marketing  | English                 | 12             | İ |
| . Beaumont  | Inter   | Purchasing   | English                 | 15             |   |
| F. Nothias  | Commerce<br>and trading                             | Business strategy (+ Sales Management)   | English                 | 36             | 4 |
| G. Elineau  | Comr<br>and t                                       | Commercial laws  | French                  | 12             |   |
| Pierre Dejax  | it  | Supply chain management  | English                 | 9              |   |
| /l. Magnaud-Héligon   | Business Unit                                       | Business English   | English                 | 12             | 6 |
| -Pierre BRUEL   | sine  | Financial analysis   | English                 | 18             |   |
| R. Briand   | й   | Business plan  | English                 | 12             |   |
| AL Mariotte   | Project   | Export Diagnostics   | English                 | 27             | 4 |
| AL Manotte  | Proj  | Purchase diagnostics   | English                 | 9              | 4 |
| AL Mariotte   | _   | Business trip and visits   | English/French          | 64             |   |
| C. Veret + JF Gascard + C. Papineau   | Professional<br>Practices                           | Business Simulation week   | French                  | 40             | 2 |
| . Graff   | ofes  | Internship preparation   | French                  | 5              | 2 |
| 3. Elineau  | _ ≥ -   |  |                         |                |   |
| TOTAL SEMESTER 9 Third year   |   |  |                         |                |   |