FIRST YEAR PROGRAM (Semester 5)
ECOLE SUPERIEURE DU BOIS

Head of unit		Unit of teaching	Teaching	Courses name	Hours	Credits
Sébastien RINCE	SPECIALITY OPENING	Logistics and Production	The Productive System	Large Scale Production	12:00	1
				Organization of Productive Systems		
Marion ROUSSEAU		Autonomy, Personal Development and Management	Professional Project	Professional Project ("Speed Défi")	56:00	4
			Communication	Software knowledge		
				Behaviour Approach		
				Integration module		
				Writing skills		
			Management	Group Management		
			School information	School Information	20:40	2
			Long term Project	Long term Project		
Franck MICHAUD		Wood and Sustainable Development	Timber industry	Overview of the Timber Industry	89:20	6
				Presentation of the Timber Industry		
			Wood Sciences	Wood Chemistry		
				Physics and Hygroscopy of Wood		
				Plant Biology		
				Natural Durability and Singularity of Wood		
				Anatomy & species recognition uses		
				Variability and wood utilisation		
			Forest and Substainable Development	Life cycle assesment		
				Biodiversity and Systematics		
Isabelle MARTINEZ		Corporate culture	Business Administration	Cost Approach	39:20	3
				Economical Intelligence		
			Business Logistics	Internal Logistics		
			Internship	Internship Preparation		
				Internship Fair		
Julie BRUNELLIERE		Languages, Cultural and International Openness	English	Business English	56:40	3
			Culture and Philosophy	Philosophy		
			Second Language	German		
				Spanish		
				Russian		
				Portuguese		
				Chinese		
				Strengthen English		
				French		
Sébastien RINCE		Innovation and Industrial Practices	Industrialization	Study and representation : Wood/mechanic	100:00	4
				Methods		
				CAO		
			Workshop	Security		
			WS_Speed DEFI	Speed Project called DEFI		
C. BELLONCLE		Fundamental Sciences	Physics / Chemistry	Chemistry	75:40	5
				Thermodynamics		
			Mechanics	Solid mechanics		
			Mathematics	Maths for Engineers		
Clément BOUDAUD		Engineer Sciences	Continuous Improvement and Project	Project Management	20:00	2
				Continuous Improvement Approach		
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
Jérôme MOREAU	SPCELLIATY OPENING	Industrialization of Forest Products	A1	Cubing and Dendrometry	28:00	3
				Wood Classification		
			Sawmill Workshop	WS_Sawmill (resin flow/hardwood)		
Francesca LANATA		Assistance in Wood Building Process	Introduction to Buidling	Introduction to Building Site	14:40	1
				Introduction to Dimensioning		
Marion ROUSSEAU		Autonomy, Personal Development and Management	School information	School information	16:40	4
			Long term project	Long term project		
Franck MICHAUD		Wood and Sustainable Development	Timber Industry	Presentation of Timber Industry	36:00	3
			Wood Sciences	Natural Durability and Singularity of Wood		
			Forest and Sustainable Development	Life cycle assesment		
				Biodiversity and Systematics		
				Forestry, Sustainable Management and Forest in the World		
			Wood Products	Paper Mill		
isabelle MARTINEZ		Business and coporate cultures	Business Administration	Management Control	45:20	4
				Economical Intelligence		
			Logistics Business	Internal Logistics, Deepening		
			Regulation and Liability	Regulatory Framework of the company		
			Internship	Internship Preparation		
Julie BRUNELLIERE		Languages, Cultural and International opening	English	Business English S6	55:20	4
			Culture and Philosophy	Philosophy		
				Interculture		
			Second Language	German		
				Spanish		
				Russian		
				Portuguese		
				Chinese		
				Strengthen English		
				French		
Sébastien RINCE		Innovation and Industrial Practices	Workshop	Dispersion, Measurement, Metrology	24:00	2
				Manufacturing		
Christophe BELLONCLE		Fundamental Sciences	Physics / Chemistry	Fluid Mechanics	122:20	7
			Mechanics	Materials Resistance		
			Material Choice and Constructive Principles	Assembling		
			Surfaces & Interfaces	Surfaces & Interfaces		
			Improved Natural Performance	Wood Finish		
				Bonding Wood		
			Mathematics	Maths for Engineers		
Franck MICHAUD		Engineer Sciences	Continuous Improvement and Project	Continuous Improvement Approach	31:00	2
			Industrial Sciences	Electrical Engineering		
TOTAL SEMESTER 6 First year					**373H20**	**30**

SECOND YEAR PROGRAM (Semester 7)
ECOLE SUPERIEURE DU BOIS

Head of unit	Unit of teaching	Teaching	Courses name	Hours	Credits
Anne Laure MARIOTTE	International Trading	Purchases and Sales	Purchases	32:20	2
			Sales		
		Introduction to International Business	Introduction to International Business		
			Wood Sectoral Analysis		
Franck MICHAUD	Wood and Sustainable Development	Timber Industry	Overview of Timber Industry	46:30	4
		Forest and Sustainable Development	Introduction to Life Cycle Assessment		
			Forest and Society		
		Wood-based Material	Wood-based composites		
			Wood and Other Materials		
Isabelle MARTINEZ	Corporate Culture	Economical Intelligence	Economical Intelligence	48:00	4
		Business Economy	Financial Analysis		
		Business Logistics	External Logistics		
		Rules and Responsibility	Societal Responsibility		
		Internship	Internship Preparation		
			Grant Internship		
		Marketing strategy	Marketing		
Julie BRUNELLIERE	Languages, Cultural and International Opening	English	English for Wood Industry	46:40	4
		Culture and Philosophy	Philosophy		
		Second Language	German		
			Spanish		
			Russian		
			Portuguese		
			Chinese		
			Strengthen English		
			French		
Sébastien RINCE	Innovations and Industrial Practices	Industrialization	Methods	30:40	2
			CAD Software		
		Workshop	Manufacturing		
		Design Project	P2I Project		
Christophe BELLONCLE	Fundamental Sciences	Selection of Materials and Building Principles	Assembly	59:20	4
		Biotic Factors	Insects		
			Mycology		
		Improvement of Performances	Preservation Process		
			Drying Process		
		PRTT	PRTT : Research and Technology transfer Project		4
Franck MICHAUD	Engineer Sciences	Continuous Improvement and Project	Project Management (PRTT/P2I)	50:00	6
			Continuous Improvement Approach		
			Probabilities and Applied Statistics		
			Operational Research		
		Industrial Sciences	Automation and Industrial Data Processing		
			Aeraulic		
			Modeling Information System		
TOTAL SEMESTER 7 Second year				**370H50**	**30**

SECOND YEAR PROGRAM (Semester 8)
ECOLE SUPERIEURE DU BOIS

Head of unit	Unit of teaching	Teaching	Courses name	Hours	Credits
Sébastien RINCE	Logistics and Production	Computerized Management of Systems	Computer-Aided Manufacturing	28:00	2
			Enterprise Ressources Planning - Business Affair		
Francesca LANATA	Assistance in Wood Building Process	Introduction to Architectural Conception	Introduction to Structural Design	60:00	3
			Architecture and Building Concepts		
			Introduction to Thermal Building		
			Building Workshop		
Marion ROUSSEAU	Autonomy, Personal Development and Management	Professional Project	Professional Project (after training period)	30:40	4
		Communication	Oral Communication		
		School Living	School Living		
Franck MICHAUD	Wood and Sustainable Developmen t	Timber industry	Presentation of Timber Industry + conferences	25:20	1
		Forest and Substainable Development	Thematic week : sustainable development		
Isabelle MARTINEZ	Business and coporate cultures	Business Economy	Business Economy	51:00	6
		Logistic of compagny	External logistic		
		Rules and Responsability	Societal Responsability		
		Internship	Internship Presentation		
		Marketing Strategy	Marketing		
Julie BRUNELLIERE	Languages, Cultural and International opening	English	Business skills	34:00	4
		Culture and Philosophy	Philosophy		
			Interculture		
Sébastien RINCE	Innovation and Industrial Practices	R&D Studies	Design	38:40	3
		Workshop	Industrial Manufacturing		
		Design Project	P2I Project	28H00	4
Clément BOUDAUD	Engineer Sciences	Continuous Improvement and Project	Value Analysis	59:20	3
			Project Management (PRTT/P2I)		
			Systemic Analysis		
		Industrial Science	Thermal Transfer and Energy		
			Modeling Information System		
TOTAL SEMESTER 8 Second Year				**337:40**	**30**

GROUPE ESB
Enseignement – Recherche
Sciences & technologies du bois

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

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

GROUPE ESB
Enseignement – Recherche
Sciences & technologies du bois

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

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

GROUPE ESB
Enseignement – Recherche
Sciences & technologies du bois

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

Professor	Unit of teaching	Course name	Teaching language	Hours	Credits
C. Griffon	Professional Practices	Technical English	French	18	5
J. Elineau		Labor laws	French	12	
F. Graff - RCAs		Internship preparation	French	5:20	
C. Veret + V. Lepel Cointet + C. Papineau		Business Simulation week	French	32	
F. Lanata - G. Simon - C. Boudaud		Timber in construction - Market trends	French	8	
F. Lanata		Business trip	French	32	
A. Godevin	Design development	Programming and feasibility	French	2:40	4
P. Meignen		Architectural intents	French	2:40	
C. Boudaud		Construction materials	French	8	
T. Bonneville			French	4	
M. Pautou		Building construction techniques	French	16	
F. Lanata			French	12	
Visits			French	8	
F. Rouillard		Building laws and regulations	French	12	
C. Belloncle		Environnemental impact	French	8	
G. Simon		Building energy systems	French	8	
D. Saint-Quentin		Eco-labelling and certification	French	8	
F. Lanata	Structural design	Structural design	French	52	5
C. Boudaud			French	8	
F. Lanata + D. Quidet + MDBat		Structural design softawares	French	14	
Various specialists		Technical conferences	French	20	
D. Battais	Building construction sciences	Computer-aided building design	French	28	5
G. Simon		Building envelope performances	French	18	
F. Rouillard			French	12	
F. Monnet			French	8	
B. Suner			French	8	
To define		Building costs engineering	French	11	
J-F. Foucault	Construction site	Thematic days	French	40	4
J-F. Foucault		Construction site visits	French		
N. Jamet	Service life	Maintenance/pathology	French	05:20	2
F. Lanata + B. Guenego		Building performances monitoring	French	11	
F. Maindron		Rehabilitation	French	3	
R. David		Demolition	French	3	
Tuteurs (Simon, Boudaud, Lanata, Cornec, Papineau)	Project	Semester project	French	10	5
TOTAL SEMESTER 9 Third year				451H	30

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

Professor	Unit of teaching	Course name	Teaching language	Hours	Credits
T. Ramananantoandro & P. Corbineau	Wood and international	Species recognition	English	18	8
J. H. Park		Wood classification	English	12	
C. Duhesme		Certification and traceability	English	15	
E. Groutel		Worldwide wood exchanges	English	24	
AL Mariotte	International timber trade	International trade techniques	English	21	6
A. Malavé		International negotiations	English	18	
A. Malavé		Intercultural management	English	12	
G. Atwal		International marketing	English	12	
J. Beaumont		Purchasing	English	15	
JF. Nothias	Commerce and trading	Business strategy (+ Sales Management)	English	36	4
G. Elineau		Commercial laws	French	12	
Pierre Dejax	Business Unit	Supply chain management	English	9	6
M. Magnaud-Héligon		Business English	English	12	
J-Pierre BRUEL		Financial analysis	English	18	
R. Briand		Business plan	English	12	
AL Mariotte	Project	Export Diagnostics	English	27	4
		Purchase diagnostics	English	9	
AL Mariotte	Professional Practices	Business trip and visits	English/French	64	2
C. Veret + JF Gascard + C. Papineau		Business Simulation week	French	40	
F. Graff		Internship preparation	French	5	
G. Elineau		Labor laws	French	12	
TOTAL SEMESTER 9 Third year				382H	30