

**Block view of the study programme**

Or Th Pr Au Cr

**Block 1**
**Compulsory courses**

		Or	Th	Pr	Au	Cr
PHIN2034-1	<i>Biotechnologies</i>	TA				7
	- Concepts and production of protein and oligonucleotide biopharmaceuticals - David VERMIJLEN	15	-	-		
	- Living biopharmaceuticals, vaccines and biosecurity - Véronique FONTAINE	6	-	-		
	- Managing the risk of the release of cell and genetic products - Roland MARINI DJANG'EING'A	3	-	-		
	- Formulation of biopharmaceuticals - Rita VANBEVER	15	-	-		
	- Quality control and analytical techniques in biopharmaceuticals, good practice and legal recommendations, part A - Marianne FILLET	5	-	-		
	- Quality control and analytical techniques in biopharmaceuticals, good practice and legal recommendations, part B (post-translational modifications) - Cédric DELPORTE	3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part a: Patents and industrial protection - Patrick DI STEFANO	5	-	-		
	- From the laboratory to the pharmacy: legal requirements - part b: Statutes and regulatory constraints on biological products - Hugues MALONNE	3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part c: Procedure for releasing batches and the legal framework of vaccines - Lorenzo TESOLIN	1	-	-		
	- From the laboratory to the pharmacy: legal requirements - part d: Organisation of quality assurance - Thierry PRONCE	3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part e: Introduction to Biobanking - Stéphanie GOFFLOT	3	-	-		
PHIN2004-1	<i>Active substances</i>	TA				4
	- Substances issues de recherches pharmacochimiques, part a - Pierre FRANCOTTE	10	-	-		
	- Substances issues de recherches pharmacochimiques, part b - François DUFRASNE	5	-	-		
	- Substances d'origine naturelle, part a - Joëlle LECLERCQ	5	-	-		
	- Substances d'origine naturelle, part b - Caroline STEVIGNY	5	-	-		
	- Produits radiopharmaceutiques - Zena WIMANA	10	-	-		
PHIN2008-2	<i>Clinical viewpoints</i>	TA				5
	- Métabolisme des médicaments et paramètres pharmacocinétiques - FrançoisXavier MATHY	20	-	-		
	- Aspects théoriques et pratiques des études cliniques (y compris les méthodes statistiques appliquées aux études cliniques) - Régis RADERMECKER	15	-	-		
	- Information et pharmacovigilance - Raphaël DENOZ	10	-	-		
PHIN2013-2	<i>Quality assurance and pharmaceutical management</i>	TA				7
	- Principles of pharmaceutical management - JeanMichel VANDERHOFSTADT	10	-	-		
	- Quality assurance, part a: basic concepts and quality assurance organisation - Thierry PRONCE	18	-	-		
	- Quality assurance, part b: analytical technology of procedures and risk analysis - Xavier MARCELIS	10	-	-		
	- English applied to the pharmaceutical industry - Jacques POUPAERT, Nevin SERBEST	20	-	-		
	- Pharmaceutical marketing - Vincent BIERLAIRE	7,5	-	-		
PHIN2033-1	<i>Pharmaceutical technology</i>	TA				5
	- Industrial pharmaceutical microbiology - Véronique FONTAINE	9	-	-		
	- Preformulation and selection of galenical forms - Jonathan GOOLE	15	-	-		
	- Industrial production of galenical forms - Brigitte EVRARD, Anna LECHANTEUR	15	-	-		
	- Industrial aspects of technological development including packaging - Laurence DENIS	10	-	-		

PHIN2023-1	<i>Drug analysis</i>	TA			<b>6</b>
	- Analytical control practices and pharmaceutical and biopharmaceutical control - part a - Pierre VAN ANTWERPEN	7	-	-	
	- Analytical control practices and pharmaceutical and biopharmaceutical control - part b - Marianne FILLET	5	-	-	
	- Pharmaceutical and biopharmaceutical analytical methods - Approving and certifying equipment - Philippe HUBERT, Roland MARINI DJANG'EING'A	12	-	-	
	- Pharmaceutical and biopharmaceutical analytical methods - Process Analytical Technology - Eric ZIEMONS	5	-	-	
	- Statistical methods applied to the pharmaceutical industry - Laure ELENS	15	-	-	
	- Experimental planning and quality by design - Bruno BOULANGER, Pierre LEBRUN	10	-	-	
PHIN2029-2	<i>Regulation and the medical-social environment</i>	TA			<b>8</b>
	- Economic aspects of drug development - Dominique MARTIN	10	-	-	
	- Legislation and procedures applied to pharmaceutical industry - part a: Legislation - Catherine DRUEZ	10	5	-	
	- Legislation and procedures applied to pharmaceutical industry - part b: Patents and industrial protection - Patrick DI STEFANO	5	-	-	
	- Macroeconomic environment and pharmaco-economics - Hugues MALONNE	10	-	-	
	- CTD File (Common Technical Document) - Walid EL AZAB	15	-	-	
	- Regulations of preclinical and clinical studies: Pharmaceutical toxicological files - Karen VAN MALDEREN	15	-	-	
	- Regulations of preclinical and clinical studies: Clinical studies - Anne LENAERS	5	-	-	
	- Regulations of preclinical and clinical studies: Pediatric studies - Thierry SCHURMANS	2,5	-	-	
	- Specific regulatory issues, part a: medicine and herbal dietary supplement - Michel FREDERICH	5	-	-	
	- Specific regulatory aspects, part b: Preformulation and documentation of galenic development - Francis VANDERBIST	5	-	-	
	- Belgian and European legislation on clinical trials	5	-	-	
PHIN2032-1	<i>Visits and seminars organised in the pharmaceutical industry - François DUFRASNE, Marianne FILLET, Joëlle LECLERCQ, Rita VANBEVER - [75h Vis.]</i>	TA	-	-	[+] <b>3</b>
MTFE2000-1	<i>End-of-course work carried out during an internship in the pharmaceutical industry or in a university research lab - François DUFRASNE, Philippe HUBERT, Joëlle LECLERCQ - [12w STCO]</i>	TA	-	-	[+] <b>15</b>