

Faculty of Medicine



MED 2 Doctorat en médecine (PhD in Medecine)



Programme management

CEMD Commission permanente de l'enseignement de l'école de médecine

Academic Supervisor : Roger Detry

Administrative Secretary : Marie-France Zabus

Contact person : Laurence Bertrand et Nadine Bussy

Tel. 027645020

E-mail: secretaire@smed.ucl.ac.be

Presidents and Vice-presidents :

- 1st year of PhD (MED 21) : André Geubel et Michel Lambert
- 2nd year of PhD (MED 22) : Frédéric Houssiau et Jacques Donnez
- 3rd year of PhD (MED 23) : Michel Gersdorff et Didier Moulin
- 4th year of PhD (MED 24) : Martin Buysschaert et Roger Detry

Study objectives

The four year studies of the PhD programme consist of theoretical and practical courses, clinical courses and periods of apprenticeship as well as options. From the beginning of this programme, the student is introduced to the hospital milieu thanks to the tutorials and internships in the first year.

The basic medical training covers two and a half years, during the course of which the student will complete a three month apprenticeship period. The continuing apprenticeships are grouped together over one and a half years (the second semester of the 3rd year and 2 semesters of the 4th year).

Admission conditions

The programme is accessible to holders of the first cycle of university studies diploma ("candidature") in Medecine.

General structure of the programme

The programmes of the 1st and 2nd years are divided up into terms.

First year of the PhD in Medecine

1st term

- detecting signs and symptoms (semiology) and learning how to approach their clinical treatment
- doctor patient relationships
- course in ethics, deontology, medical law and public health (conceptual and methodological tools)
- language course
- tutorial ; optional courses
- initiation into practical experience (4 weeks)

2nd term

- cardio-vascular sector
- respiratory sector
- infectious diseases sector
- course in ethics, deontology, medical law and public health (conceptual and methodological tools)
- relationship training
- tutorial ; optional courses

3rd term

- digestive sector
- psychiatry sector
- introduction to general medecine , 1st part
- course in ethics, deontology, medical law and public health (conceptual and methodological tools)
- tutorial ; optional courses

Second year of the PhD in Medecine**1st term**

- gynecology-obstetrics sector
- nephrology-urology sector
- introduction to general medecine, 2nd part
- course in ethics, deontology, medical law and public health (seminars)
- legal medecine
- language course
- tutorial ; optional courses

2nd term

- internship (4 weeks)
- locomotor sector
- endocrinology sector
- hematology-cancerology
- course in ethics, deontology, medical law and public health (seminars)
- relationship training
- tutorial ; optional courses

3rd term

- internship (4 weeks)
- endocrinology sector (cont.)
- hematology-cancerology (cont.)
- course in ethics, deontology, medical law and public health (seminars)
- options

Third year of the PhD in Medecine**1st semester**

- head and neck sector (nervous diseases, ear-nose and throat, ophtalmology, stomatology)
- special pathology : dermatology
- course in ethics, deontology, medical law and public health (principally individual work)
- optional complementary certificates (ECG, preventative medecine, x-ray protection)
- specific branches of studies (general medecine, specialised medecine,etc) ; options

2nd semester

- compulsory recommended apprenticeships (3 periods of 2 months from January to June)
- seminars on internal medecine, surgery, gynecology-obstetrics, pediatrics

Fourth year of the PhD in Medecine**1st semester**

- compulsory recommended apprenticeships, as from the 6th semester (3 periods of 2 months from July to December)
- approved hospital internships organised by the CUMG (3 periods of 2 months from July to December)

2nd semester

Optional apprenticeships (January to June), 4 orientations :

- specific training in general medecine
- preparation period for exams to determine specialisations
- research
- public health (including industrial medecine)

Programme content**MED21 First year of studies****Specific objective**

The 1st year of the PhD programme introduces studies in clinical reasoning and the necessary actions needed in terms of diagnosis and therapy. This will continue throughout the 2nd year and the 1st term of the 3rd year. It will be supported by real life cases encountered by the student during the course of his apprenticeships and tutorials. The first year will begin with specific studies in semiology (the identification and recognition of signs and symptoms) which act as a bridge between the "candidature" and the PhD studies. It then goes on to cover the study of pathologies through physiological systems (sectors). In the 1st PhD year, the following sectors are looked at : the cardio-vascular, pneumology, gastro-enterology, infectious diseases and psychiatry sectors.

The special pharmacology and pathological anatomy sectors are taught on parallel lines and in close coordination with the other sectors.

Medical psychology, the study of ethics and deontology, are aimed at the personal training of the doctor who needs to acquire an appropriate attitude towards his patient, the problems of society and his professional milieu. Courses in general medecine parallel to the specialities dominating the different sectors will help prepare the students to choose their career orientation

(general medicine or specialised medicine).

FIRST TERM

The first term covers 9 weeks of course work, 1 week of study-evaluation and 4 weeks of practical training.

MEDI2100 Sémiologie médicale[114.5h] (9 credits) (in French) Benoît Boland, Olivier Devuyst, Philippe Hainaut, François Jamar, Anne Jeanjean, Michel Lambert (coord.), Chantal Lefebvre, Dominique Lison, Baudouin Maldague, Jean-Marie Maloteaux, Christian Sindic, Jean-Louis Vanoverschelde

Objectives : this course is aimed at helping the students to recognise the clinical signs and symptoms essentially connected with the respiratory system, the cardiovascular system, the abdomen and the neurological system (introduction).

The studies cover the learning and interpretation of common clinical biological tests as well as the principal anomalies in thorax x-rays; an introduction to the concepts of acts of decision-making will also be gone into.

Optional objectives : medical decision strategies.

MEDI2101 Surgical semeiology (enclosed the area of urgencies)[64.5h] (5 credits) (in French) Philippe Baele, Bénédicte BAYET, Stéphan Clément de Cléty, Jean-Marie Collard, Louis De Canniere, Roger Detry, Jean-François Gigot, Jean-Marie Gouverneur, Alex Kartheuser, Bernard Le Polain de Waroux, Jan Lerut (coord.), Francis Lorge, Philippe Meert, Luc Michel, Raymond Reding, Marc Reynaert, Jean-Jacques Rombouts, François Singelyn, Frédéric Thys, Paul Van Canghai, Romain Vanwijck, Robert Verhelst, François-Xavier Wese

Objectifs: Surgical semiology and caring for emergency cases constitutes the complement in medical semiology following in the tradition which separates internal pathology and surgical interventions. The latter principally concern organ pathology. This course prepares the student to be able to cope with emergencies and to learn which appropriate medical actions to take. Besides providing initiation into making diagnoses based on the identification of the signs and symptoms, in the case of more specifically surgical pathologies, this course aims to give the students general notions in surgical pathology and physiopathology. In order to prepare himself for the end of semester apprenticeship, the students will also acquire a combination of theoretical and practical knowledge which will help them to learn - with no risk of harm to their patients - the necessary rudimentary medico-surgical techniques and nursing techniques

Optional objectives : anaesthesiology, research methodology in surgery, algology.

MEDI2102 Symptoms and signs in pediatric[37.5h] (3 credits) (in French) Eddy Bodart, Jean-Paul Buts, DOMINIQUE HERMANS, Didier Moulin (coord.), Etienne Sokal

Objectives : to familiarise the student with the different anamnestic and clinical signs which vary according to age and growth to help him diagnose pathological cases. To develop the fundamental notions of pediatrics through the study of the somatic, mental and emotional development of a normal child. Also to familiarise the student with the main syndromes related to pediatrics.

MEDI2103 Formation à la relation[24h] (1 credits) (in French) Dominique Charlier, Philippe DE TIMARY, Vincent Dubois, Pascal Janne, Alain Luts, Christine Reynaert (coord.), Anne Wintgens, Nicolas Zdanowicz

Objectives: to help the student become sensitive to the reality of the doctor-patient relationship and to develop the importance of the psychological and psychosocial dimensions involved here.

MEDI2104 Societal and ethical dimensions of health , disease and medicine[24h] (2 credits) (in French) Cécile Bolly, Mylene Botbol, Marie-Christine Closon, Alain Deccache, William D'Hoore, Michel Dupuis, Jean Laperche, Dominique Lison, Luc Michel, Didier Moulin (coord.), Dominique Pestiaux, Luc Roegiers, Geneviève Schamps, Michel Vanhalewyn

Objectives: to train future doctors in the contextual dimensions of medical practice. As well as the concrete problems encountered during the practical work experience periods, the ethical, deontological and juridical aspects, together with the community concerns will also be analysed.

Optional objectives : hospital medicine, health and development, analysis of parallel medicines, instructing the patient about his illness and medical information.

ANGL2450 Interactive Communication in Medicine[30h] (2 credits) Timothy Byrne, Jennifer Moreman, Sandrine Mulkers, Marc Piwnik, Anne-Christine Schiffllers, Catherine Thewissen

(1st part , 15 hours)

NEER2450 Interactive Communication in Medicine (Master's in Medical Science)[30h] (3 credits) Christel Vandegoor (coord.)

(1st part , 15 hours)

The student must choose between Dutch and English (a choice to be made for the 1st and 2nd doctoral (PhD) years).

Objectives: these courses focus on the interaction between the doctor and the patient (consultation, diagnosis, treatment) ; with practice via role-plays (telephone contact, appointments, welcoming a patient and responding to his questions). The main aim here is to foster the integration of the relevant vocabulary for consultations for becoming acquainted with a new medical case.

MEDI9219 Tutorat premier doctorat(1 credits) (in French) N.

Groups of 2 to 4 students are entrusted to a particular lecturer from the first year of the PhD programme, for a minimum of 2 hours a week during course time, for the purpose of clinical activities (discussion of a case prolonged in the way of bibliographical research, initiation into clinical examinations...).

MEDI9210 Clerkships(6 credits) (in French) N.

During the course of a 4 week period of apprenticeship in a general medical practice or a general hospital service, the student will participate in various clinical activities to give him the opportunity to put his training in semiology and clinical studies into practice. Here, he will come face to face with the human and medical problems that will be the basis of reflection and analysis during his studies to come.

Clinical apprenticeship seminars are organised to help give the students maximum support for their practical experience.

SECOND TERM

The second term comprises 10 weeks of course work and 2 weeks of study-evaluation.

MEDI2107 Secteur cardio-vasculaire, du diagnostic au traitement[82.5h] (7 credits) (in French) Jean-Luc Balligand, Michel Buche, Gebrine El Khoury, Olivier Gurné, Claude Hanet, Yves Louagie, Philippe Noirhomme, Jacques Rahier, Thierry Sluysmans, Jean-Louis Vanoverschelde (coord.), Robert Verhelst

Objectives: to initiate the students in the discovery and recognition of cardiac and vascular pathologies (cardiac insufficiency, rhythm disturbance, thorax pains, varicose veins) as well as in the methods and principal techniques relating to cardiac exploration (adults and children). Also to introduce them to a coherent approach to treatment.

Optional objectives: cardiac surgery, complements in vascular diseases, pediatric cardiology.

MEDI2108 Respiratory diseases, from diagnosis to treatment[58h] (4 credits) (in French) Jean-Luc Balligand, Philippe Collard, Luc Delaunois (coord.), Louis Goncette, Patrick Lebecque, Giuseppe Liistro, Eric Marchand, Philippe Noirhomme, Jacques Rahier, Daniel Rodenstein, Yves Sibille, Jean-Paul Trigaux, Olivier Vandenplas, Birgit Weynand

Objectives: Studies in rudimentary notions of pulmonary, pleural and mediastinal pathologies. Priority is given to common complaints in general medicine and to rarer complaints if they are linked to high morbidity-mortality or if they are directly concerned by the diagnostic differentials. These studies also aim to provide the students with the physiopathological and epidemiological bases relevant for the understanding and recognition of respiratory complaints..

Optional objectives: complements in pneumology, complements in clinical allergology.

MEDI2109 Infectious diseases : clinical diagnosis and treatment[47.5h] (4 credits) (in French) Etienne Sokal, Bernard Vandercam, Christiane Vermeylen, Francis Zech (coord.)

Objectives: Studies in the clinical approach to patients with a temperature (fever) or other indication of an infectious disease. Also learning how to criticise the diagnostic value of infectious symptoms. Helping the student know what kind of reaction to take when faced with a feverish adult or child patient. Learning in which circumstances antibiotics should be prescribed, what kind, and how to evaluate the results. Learning how to give a detailed description of the clinical evolution, complications and treatment of multisystemic infectious diseases.

Operational objectives: tropical hygiene, laboratory use strategies and therapies in infectious pathology, complements in tropical pathology.

MEDI2103 Formation à la relation[24h] (1 credits) (in French) Dominique Charlier, Philippe DE TIMARY, Vincent Dubois, Pascal Janne, Alain Luts, Christine Reynaert (coord.), Anne Wintgens, Nicolas Zdanowicz

MEDI2104 Societal and ethical dimensions of health , disease and Cécile Bolly, Mylene Botbol,

medicine[24h] (2 credits) (in French)

Marie-Christine Closon, Alain Deccache, William D'Hoore, Michel Dupuis, Jean Laperche, Dominique Lison, Luc Michel, Didier Moulin (coord.), Dominique Pestiaux, Luc Roegiers, Geneviève Schamps, Michel Vanhalewyn N.

MEDI9219

Tutorat premier doctorat(1 credits) (in French)

See 1st term

THIRD TERM

The third term comprises 9 weeks of course work and 3 weeks of study-evaluation.

MEDI2110

Gastro-intestinal tract. Basic principles of diagnosis and management[106.5h] (8 credits) (in French)

Jean-Paul Buts, Jean-Marie Collard, Pierre Deprez, Roger Detry (coord.), Olivier DEWIT, André Geubel, Jean-François Gigot, Louis Goncette, Yves Horsmans, Alex Kartheuser, Jan Lerut, Baudouin Maldague, Michel Melange, Luc Michel, Hubert Piessevaux, Jacques Rahier, Raymond Reding, Christine Sempoux, Etienne Sokal, Bernard Van Beers, Robert VANHEUVERZWYN

Objectives: to provide the essential physiopathological, diagnostic and therapeutic elements for digestive complaints. The relative importance given to the different chapters will both dictated both by the incidence of the pathologies considered and for less common complaints, via the prognostic consequences of an appropriate diagnosis and/or treatment.

Optional objectives: complements in gastro-enterology, complements in surgical pathology of the digestive system, complements in the surgical pathology of the digestive system of children.

MEDI2111

Secteur psychiatrie[54h] (4 credits) (in French)

Philippe DE TIMARY (supplée Jean-Paul Roussaux), Vincent Dubois (supplée Jean-Paul Roussaux), Jean-Yves Hayez, Jean-Marie Maloteaux, Christine Reynaert, Jean-Paul Roussaux (coord.), Arlette Seghers, Arlette Seghers (supplée Jean-Paul Roussaux), Philippe van Meerbeek

Objectives: Presentation of the main psychopathological syndromes for the different ages of life. Focus is placed on the most common complaints, either associated to somatic pathologies or in isolation. This course constitutes a general introduction to psychiatric problems, both on the level of diagnosis and of treatment.

Optional objectives: psychosomatics (medical functional pathologies, systemic and comportamental psychotherapy), child psychiatry.

MEDI2112

Introduction to General Practice (1)[15h] (1 credits) (in French)

Dominique Paulus, Dominique Pestiaux (coord.), Charles Vanwelde

Objectives: to help the student become capable of mastering the existing concepts of general medicine and knowing what is involved and at stake in the context of primal care. To help him become familiar with the specificities of the role of the general practitioner and his integration in the health-care system. To help him understand the central position of the general practitioner within all of the health-care systems, the role of preventative care, curative care and rehabilitation as well as the necessity to be registered within the networks responsible for dealing with health care. To help him realise what is involved in opting for a specialisation or for general family medicine.

MEDI2103

Formation à la relation[24h] (1 credits) (in French)

Dominique Charlier, Philippe DE TIMARY, Vincent Dubois, Pascal Janne, Alain Luts, Christine Reynaert (coord.), Anne Wintgens, Nicolas Zdanowicz

See 1st term

MEDI2104

Societal and ethical dimensions of health , disease and medicine[24h] (2 credits) (in French)

Cécile Bolly, Mylene Botbol, Marie-Christine Closon, Alain Deccache, William D'Hoore, Michel Dupuis, Jean Laperche, Dominique Lison, Luc Michel, Didier Moulin (coord.), Dominique Pestiaux, Luc Roegiers, Geneviève Schamps, Michel Vanhalewyn

See 1st term

MEDI9219

Tutorat premier doctorat(1 credits) (in French)

N.


See 1st term

Option recommended as from the 1st year of the PhD studies

The student will choose two options.

Special information : as from the academic year 2004-2005, the " **Analysis of parallel medicines** " (MED 2310) course must have been followed before the end of the 2nd cycle.

The list below presents the options recommended for the students as from the 1st PhD year. The type of course is also indicated : complement (C), "awareness" ("éveil ") course, (Ev), preparation for exam (PC) and, if applicable, as a priority if the course constitutes a compulsory part of another programme (example : ESP : forms part of the Public Health School programmes).

<u>ANES2110</u>	Anaesthesia explained to non-anaesthetists[15h] (2 credits) (in French)	Marc De Kock, Luc Van Obbergh
<i>Ev and PC</i> <u>CHG2010</u>	Research in surgery[15h] (1 credits) (in French)	Christian Delloye, Pierre Gianello, Bertrand Tombal
<i>Ev</i> <u>CHGC2110</u>	Cardiac surgery[15h] (2 credits) (in French)	Michel Buche, Gebrine El Khoury, Yves Louagie, Philippe Noirhomme, Jean Rubay
<i>C</i> <u>ESP3530</u>	Strategy of the medical decision[30h] (in French)	Olivier Devuyt, Annie Robert
<i>ESP</i> <u>INF2111</u>	Eléments d'informatique médicale[15h+15h] (2 credits) (in French)	Benoît Debande
<i>Ev</i> <u>INTR2230</u>	Compléments de maladies vasculaires[15h] (2 credits) (in French)	Philippe Hainaut, Chantal Lefebvre (coord.), Robert Verhelst
<i>C</i> <u>INTR2260</u>	Complements in hepato-gastroenterology[15h] (2 credits) (in French)	Thierry De Ronde, Pierre Deprez (coord.), Olivier DEWIT, Michel Melange, Hubert Piessevaux, Peter STARKEL
<i>C</i> <u>INTR2265</u>	Surgical pathology of the digestive tract: complementary course studies[15h] (1 credits) (in French)	Jean-Marie Collard, Jean-François Gigot, Alex Kartheuser
<i>C</i> <u>INTR2266</u>	Lectures in surgical digestive pathology in children (optional course)[9h] (in French)	Jean-Paul Buts, Jean de Ville de Goyet, Raymond Reding (coord.)
<i>C</i> <u>INTR2291</u>	Functional cardiac investigations[15h] (2 credits) (in French)	Claude Hanet (coord.), Agnès Pasquet, Erwin Schroeder
<u>INTR2292</u> <u>MED2181</u>	Pulmonary function testing[15h] (2 credits) (in French) tropical diseases (complementary course)[15h] (1 credits) (in French)	Giuseppe Liistro, Eric Marchand Francis Zech
<i>C</i> <u>MED2184</u>	Médecine hospitalière[14h]  (in French)	N.
<i>Ev</i> <u>MED2260</u>	Health and Development[30h] (in French)	Debarati Guha, Myriam Malengreau
<i>Ev</i> <u>MED2310</u>	Complementary and Alternative Medicines or CAM[7.5h] (1 credits) (in French)	Philippe Antoine
<i>Ev</i> <u>MED2320</u>	Education du patient à sa maladie[15h] (1 credits) (in French)	Jean Laperche
<i>Ev</i> <u>MED2332</u>	Strategy for the optimal use of the laboratory and of therapies in infectious diseases[15h] (2 credits) (in French)	Michel Delmée, Gerald Glupczynski, Patrick Goubau, Francis Zech
<i>C</i> <u>MED2180</u>	Hygiene in tropical countries[15h] (1 credits) (in French)	Myriam Malengreau
<i>Ev</i> <u>MED2420</u>	Pain Management, Algology[15h] (2 credits) (in French)	Bernard Le Polain de Waroux, Léon Plaghki
<i>Ev</i> <u>PEDI2140</u>	Cardiologie pédiatrique[15h] (1 credits) (in French)	Catherine Barrea, Madeleine Cailteux,

Caroline Ovaert, Thierry Sluysmans
(coord.)

<u>C</u>		
<u>PNEU2110</u>	Supplements of pneumology[15h] (2 credits) (in French)	Yves Sibille, Olivier Vandenplas
<u>C</u>		
<u>PNEU2120</u>	Clinical allergy[15h] (in French)	Yves Sibille, Olivier Vandenplas
<u>C</u>		
<u>PSYC2151</u>	Child psychiatry: psychopathology of the everyday life[15h] (1 credits) (in French)	Dominique Charlier
<u>C</u>		
<u>PSYC2152</u>	Child psychiatry : psychiatric and psychosomatic syndromes[15h] (1 credits) (in French)	Dominique Charlier
<u>C</u>		
<u>PSYC2142</u>	Psychosomatique II (Pathologies médicales fonctionnelles, psychothérapie systémique et comportementale)[30h] (3 credits) (in French)	Christine Reynaert, Nicolas Zdanowicz

Ev

MED22 Second year of studies

Specific objective

During the course of the 2nd PhD year, the student will acquire the rudimentary notions of uro-nephrological, gynec-obstetrical, endocrinal, hematological and locomotor system pathologies.

Parallel to the lectures, clinical seminars are organised in big auditoria and in small groups, aimed at supporting the student in the context of his self-study, tutorials and two month period of apprenticeship.

The contextual aspects (deontology, ethics, social implications) as well as training in relationships, general medicine, a language and the studies initiated in the 1st PhD year are pursued in the 2nd PhD year.

Elements of legal medicine are also taught in this year..

FIRST TERM

The first term comprises 13 weeks of course work and 1 week of study-evaluation

<u>MEDI2200</u>	Gynecology-Obstetrics (including anatomopathology, neonatology and medical genetics)[124.5h] (10 credits) (in French)	Pierre Bernard, Jacques Donnez (coord.), Christine Dumoulin, Corinne Hubinont, Etienne Marbaix, Mireille SMETS, Jean-Luc SQUIFFLET, Gaston Verellen
-----------------	---	---

Objectives : to provide the physiopathological, diagnostic and therapeutic elements essential for gynecological complaints.

Also to provide the physiological and pathological elements linked to pregnancy and related complications. The relative importance given to the different chapters will be dictated by the incidence of the pathologies considered. For less common problems or for problems arising during pregnancy, the kind of diagnosis and appropriate treatment to be given will be discussed.

Optional objectives: complements in gynecology and infertility, complements in andrology and a chapter on vitro fertilisation and foetal complications.

<u>MEDI2201</u>	Urology and Nephrology (including radiology, pathology and pharmacology)[83.5h] (7 credits) (in French)	Jean-Pierre Cosyns, Olivier Devuyt, Axel FEYAERTS, Eric Goffin, Yves Horsmans, Michel Jadoul, Francis Lorge, Jean-Marie Maloteaux, Reinier-Jacques Opsomer, Yves Pirson, Etienne Sokal, Bertrand Tombal, Bernard Van Beers, Paul Van Cangh (coord.), François-Xavier Wese
-----------------	---	---

Objectives: Studies in rudimentary notions of the main uro-nephrological pathologies (kidneys, urinary tracts and male genitals), by focusing on the most common diseases and those that are most important in terms of morbidity - mortality, bearing in mind any particularities depending on age (pediatric, adult and geriatric sections). Emphasis is placed on an integrated medico-surgical approach which systematically covers the diagnostic aspects (in hospitals; imaging and anatomo-pathological support and aspects of existing treatment, all the while insisting on the necessity for ongoing training..

Optional objectives: complements in urology, complements in nephrology

<u>MEGE2110</u>	Introduction to General Practice[16h] (1 credits) (in French)	Dominique Pestiaux, Charles Vanwelde (coord.)
-----------------	---	---

Objectives: to introduce the specificities of hospital care and medical decisions in general medicine, from the registering of the complaint to the solving of the patient's problems. To define the specific role played by the general practitioner within these procedures, characterised by the integration of multiple pathologies and sometimes complex or even antagonistic forms of treatment, keeping in mind the external context and determining factors.

<u>MEDI2204</u>	Societal and ethical dimensions of health , disease and medicine[24h] (2 credits) (in French)	Cécile Bolly, Mylene Botbol, Marie-Christine Closon, Alain Deccache, William D'Hoore, Michel Dupuis, Jean Laperche, Dominique Lison, Luc Michel, Didier Moulin (coord.), Dominique Pestiaux, Luc Roegiers, Geneviève Schamps, Christian Swine, Dominique Vanpee
-----------------	---	---

Objectives: the reinforcement of the training of the future doctors in the contextual dimensions of medical practice is one of the priority objectives fixed by the Medical Teaching School Committee. At the end of the 2nd PhD year, the student will have had the possibility to formulate and analyse a health problem related to his clinical practice, in depth. He will have learned how to access and exploit documented sources to best formulate questions of an ethical, deontological and social nature, brought to the fore by this health problem. He will have the opportunity to discuss all of this with his peers.

<u>MED2150</u>	Elements of forensic medicine[15h] (1 credits) (in French)	Frédéric Bonbled
----------------	--	------------------

Objectives: introduction to the legal dimensions, especially of a judicial nature, involved in medical activities, as well as to the requirements and implications of opinions and certificates, and more particularly in the case of concrete evaluation of the nature and consequences of injury and damage and cause of death.

<u>ANGL2450</u>	Interactive Communication in Medicine[30h] (2 credits)	Timothy Byrne, Jennifer Moreman, Sandrine Mulkers, Marc Piwnik, Anne-Christine Schifflers, Catherine Thewissen
-----------------	--	--

(2nd part, 15 hours)

<u>NEER2450</u>	Interactive Communication in Medicine (Master's in Medical Science)[30h] (3 credits)	Christel Vandegoor (coord.)
-----------------	--	-----------------------------

(2nd part, 15 hours)

Objectives: in the 1st PhD year, the future doctor had to choose a language course : either English, or Dutch. 15 hours were given in the first PhD year and the other 15 hours in the 2nd year. The objective pursued is identical : these courses focus on the interaction between the doctor and the patient (consultation, diagnosis, treatment) ; with practice via role-plays (telephone contact, appointments, welcoming a patient and responding to his questions). The main aim here is to foster the integration of the relevant vocabulary for consultations or for becoming acquainted with a new medical case.

<u>MEDI9229</u>	Tutorat 2e doctorat[20h] (1 credits) (in French)	N.
-----------------	--	----

Groups of 2 to 4 students will be entrusted to a lecturer of the 2nd PhD year, for 20 hours to be given from the beginning of the academic year to the end of the 2nd term, for hospital activities (discussion of particular cases prolonged by bibliographical research, initiation in clinical exams, etc.).

SECOND TERM

The second term comprises 4 weeks of apprenticeship, 7 weeks of course work and 1 week of study-evaluation

<u>MEDI9220</u>	Stage 2e doctorat (1re partie)(6 credits) (in French)	N.
-----------------	---	----

During a 4 week period of apprenticeship, the student will participate in various hospital activities so that he can put the training acquired from the specific sector of studies in semiology, hospital care and medical knowledge into practice. Here, he will encounter human and medical problems that will constitute matter for reflection and analysis during his ensuing study periods.

Apprenticeship seminars are organised to give the students more support

<u>MEDI2202</u>	Secteur locomoteur (y compris la radiologie, l'anatomie pathologique et la pharmacologie)[112h] (9 credits) (in French)	Olivier Barbier, Yves Boutsen, Olivier Cornu, Philippe De Cloedt, Christian Delloye, Jacques Denayer, Jean-Pierre Devogelaer, Patrick Durez, Walter Esselinckx, Christine Galant, Frédéric Houssiau (coord.), Bernard LAUWERYS, Jean Legaye, Thierry Lejeune, Wladyslaw Lokietek, Baudouin Maldague, Jacques Malghem, Jean-Marie Maloteaux, Daniel Manicourt, Henri Nielens, Léon Plaghki, Pascal POILVACHE, Jacques Rahier, Jean-Jacques Rombouts, Bruno Vande Berg
-----------------	---	--

Objectives: to provide the students with physiopathological, diagnostic and treatment elements essential for complaints with the locomotor system. Focus will be placed on the most common problems, on their differential diagnosis and on the importance of a pluridisciplinary approach.

Optional objective: complements in orthopedics and traumatology, complement in rheumatology, motor rehabilitation and complements in physical medicine.

<u>MEDI2203</u>	Formation à la relation (2ème partie)[12h] (1 credits) (in French)	Dominique Charlier, Philippe DE
-----------------	--	---------------------------------

French)

TIMARY, Vincent Dubois, Pascal Janne, Alain Luts, Christine Reynaert (coord.), Anne Wintgens, Nicolas Zdanowicz

Objectives : to help the student become sensitive to the reality of the doctor-patient relationship and to develop the importance of the psychological and psychosocial dimensions of this

MEDI9229 Tutorat 2e doctorat[20h] (1 credits) (in French)

N.

See 1st term

THIRD TERM

The third term comprises 4 weeks of apprenticeship, 5 weeks of course work and 3 weeks of study-evaluation

MEDI9221 Stage 2e doctorat (2ème partie)(6 credits) (in French)

N.

See 2nd term

MEDI2205 Secteur endocrinologie (y compris la radiologie, l'anatomie pathologique et la pharmacologie)[76h] (6 credits) (in French)

Martin Buyschaert (coord.), Chantal Daumerie, Etienne DELGRANGE, Julian Donckier, Michel Hermans, Yves Horsmans, Marc Maes, Dominique Maiter, Jacques Rahier, Jean-Paul Thissen, Bernard Van Beers

Objectives : to initiate the students into the physiopathology, diagnoses and treatment of endocrinal complaints in the main context of hospital care. From this perspective, to teach, in a concrete way, the essentials that no doctor can afford not to know in diabetology and in general endocrinology, especially in the domains of the hypophysis, the thyroid, the adrenal glands and diseases linked to nutrition.

Optional objectives: complements in endocrinology, nutrition diseases and internal secretion glands and nutrition and diet diseases.

MEDI2206 Hemato-oncology (including pathology)[74.5h] (6 credits) (in French)

André Bosly, Bénédicte Brichard, Véronique Deneys, Chantal Doyen, Augustin Ferrant (coord.), Vincent Grégoire, Cédric Hermans, Yves Humblet, Dominique Latinne, Bernard Le Polain de Waroux, Jean-Pascal Machiels, Lucienne MICHAUX, Jacques Rahier, Françoise Richard, Pierre Scalliet, Michel Symann, Eric Van Den Neste, Christiane Vermeylen

Objectives: the course on Haematology is aimed at teaching the main haematological syndromes proper to adults and children, i.e. :

1. To describe haematological diseases, either constitutional or acquired (especially the different forms of anaemia, neutropenia and thrombopenia), ganglion pathologies and malignant acute or chronic haemopathies.
2. To look at the rational use of blood and its derivations.
3. To develop notions concerning coagulation and haemostatic pathologies.

The objectives of the course on Oncology are as follows :

1. To provide the future doctor with the indispensable knowledge to avoid any negligent diagnosis.
2. To initiate him into the art of dialogue with cancer patients.
3. To instruct him in the principals of modern treatment possibilities which must be harmoniously integrated into treatment strategies.
4. To give him the means to cope with cancer emergencies which are all too often still a prominent feature in the case of these patients.

Optional objectives : complements in haemostasis, complements in haematology, complements in cancerology..

MEDI2207 Cliniques de rappel : pathologie médicale[18h] (1 credits) (in French)

Benoît Boland, André Bosly, Luc Delaunois, Julian Donckier, André Geubel (coord.), Olivier Gurné

MEDI2208 Surgery : Clinical demonstrations[22.5h] (1 credits) (in French)

Michel Buche, Jean-Marie Collard, Louis De Canniere, Roger Detry (coord.), Jean-François Gigot, Alex Kartheuser, Jan Lerut, Luc Michel, Philippe Noirhomme, Raymond Reding, Robert Verhelst

Those studies acting as reminders for students of the sector content of the 1st year are given in the form of **apprenticeship seminars** during the course of the two month internship period.

Options recommended as from the 2nd PhD year

The student will choose 2 options.

The list below presents the options recommended for the students as from the 2nd PhD year. The type of course is also indicated : complement (C), "awareness" ("éveil ") course, (Ev), preparation for exam (PC) and, if applicable, as a priority if

the course constitutes a compulsory part of another programme (example : ESP : forms part of the Public Health School programmes).

<u>CHG2250</u>	Seminar on organ transplantation[15h] (2 credits) (in French)	Jean DE VILLE DE GOYET (coord.), Jean de Ville de Goyet, Christian Delloye, Pierre Gianello, Jan Lerut, Raymond Reding
<i>Ev</i>		
<u>ESP3511</u>	Epidémiologie clinique: médecine basée sur les preuves[15h] (2 credits) (in French)	Benoît Boland
<u>ESP3512</u>	Epidémiologie clinique: principes des essais cliniques[15h+15h] (2 credits) (in French)	Annie Robert
<i>Courses at the Public Health School</i>		
<u>IEP2840</u>	Compléments d'orthopédie et de traumatologie[22.5h] (in French)	Olivier Barbier, Christian Delloye, Pascal POILVACHE, Jean-Jacques Rombouts
<i>C</i>		
<u>INF2112</u>	Medical Informatics[15h+15h] (2 credits) (in French)	Etienne De Clercq, Francis Roger France
<i>Ev</i>		
<u>INTR2181</u>	Supplement in haemostasis[15h] (1 credits) (in French)	Christian Chatelain, Véronique Deneys, Philippe Hainaut, Cédric Hermans (coord.)
<i>C</i>		
<u>INTR2182</u>	Complements in Haematology[15h] (2 credits) (in French)	André Bosly, Chantal Doyen, Augustin Ferrant (coord.), Lucienne MICHAUX, Eric Van Den Neste
<i>C</i>		
<u>INTR2211</u>	Complements in Endocrinology[15h] (2 credits) (in French)	Martin Buyschaert, Dominique Maiter
<i>C</i>		
<u>INTR2271</u>	Optional course in nephrology[15h] (1 credits) (in French)	Olivier Devuyst, Eric Goffin, Michel Jadoul, Yves Pirson (coord.)
<i>C</i>		
<u>INTR2281</u>	Compléments de rhumatologie[15h] (2 credits) (in French)	Jean-Pierre Devogelaer (coord.), Walter Esselinckx, Frédéric Houssiau, Daniel Manicourt
<i>C</i>		
<u>INTR2330</u>	Complementary lectures in internal medicine[22.5h] (2 credits) (in French)	Benoît Boland, Philippe Hainaut, Michel Lambert (coord.), Chantal Lefebvre, Bernard Vandercam
<i>C</i>		
<u>INTR2212</u>	Endocrine and nutrition-related diseases[30h] (3 credits) (in French)	Dominique Maiter, Jean-Paul Thissen
<i>Compulsory course for the human nutrition orientation of the "licence" studies in biomedical sciences</i>		
<u>INTR2220</u>	Medical Nutrition Therapy[15h+15h] (2 credits) (in French)	Jean-Paul Thissen
<i>Compulsory course for the human nutrition orientation of the "licence" studies in biomedical sciences</i>		
<u>MED2331</u>	Medical imaging and clinical biology : Strategy of utilisation[16.5h] (2 credits) (in French)	Olivier Devuyst, Michel Lievens, Bernard Van Beers
<i>C</i>		
<u>MEFY2120</u>	Complement of Physical Medicine and Rehabilitation[15h] (1 credits) (in French)	Léon Plaghki
<i>C</i>		
<u>MNUC2100</u>	Master and complementary master[15h] (2 credits) (in French)	François Jamar, Thierry Vander Borgh
<i>Course especially aimed at preparing for an exam</i>		
<u>OBST2161</u>	Complementary courses in gynecology and infertility[15h] (2 credits) (in French)	Jacques Donnez
<i>C</i>		
<u>OBST2162</u>	Complementary courses in andrology and the male arm of IVF[15h] (2 credits) (in French)	Jacques Donnez, Christine Wyns
<i>C</i>		
<u>OBST2180</u>	Médecine foetale[21h] (2 credits) (in French)	Pierre Bernard, Frédéric DEBIEVE, Corinne Hubinont

Ev

<u>PSYC2190</u>	Juvenile psychiatry[15h] (1 credits) (in French)	Philippe van Meerbeeck
<i>C</i>		
<u>PSYC2210</u>	SEMINAR ON PSYCHOPATHOLOGY AND GENERAL PSYCHIATRY[45h] (4 credits) (in French)	Philippe DE TIMARY (supplée Jean-Paul Roussaux), Vincent Dubois (supplée Jean-Paul Roussaux), Jean-Paul Roussaux, Arlette Seghers
<i>C</i>		
<u>RDGN2130</u>	Complements of Medical Imaging[15h] (1 credits) (in French)	Philippe Clapuyt, Guy Cosnard, Louis Goncette, Baudouin Maldague (coord.), Jean-Paul Trigaux, Bernard Van Beers, Bruno Vande Berg
<i>C</i>		
<u>RDTH2120</u>	UPDATE IN CANCEROLOGY[30h] (2 credits) (in French)	Yves Humblet, Jean-Pascal Machiels, Michel Symann, Anne Van der Wielen
<i>C</i>		
<u>SEX2280</u>	Medical sexology[15h] (2 credits) (in French)	Armand Lequeux, Reinier-Jacques Opsomer, Christine Reynaert
<i>Psychology Faculty course</i>		
<u>URO2120</u>	Urology complements[15h] (2 credits) (in French)	Paul Van Cangh, François-Xavier Wese
<i>C</i>		

MED23 Third year of studies

The sixth year successively comprises a semester of theory and a complete semester of apprenticeships some of which are compulsory and some recommended.

The apprenticeship periods include hospital internships. These are carried out successively in surgery, internal medicine, pediatrics and gynecology-obstetrics either in university hospitals or in Belgian or foreign hospital services approved by the Faculty.

Choice of orientation

Depending on the choice of studies (different branches of studies), the students can prepare to opt for a distinct orientation: general medicine, specialised medicine or others (research, public health, industrial medicine). They will not confirm their definitive choice of orientation until the end of their sixth year of studies for general medicine and at the end of their compulsory and recommended apprenticeships for the other specialities. The students who opt for the **general medicine orientation** must register at the CUMG as from the beginning of the 4th PhD year.

The students who opt for the **specialised medicine orientation** will submit their optional apprenticeship application and register for the exam during the month of November of the 4th PhD year.

The students who choose another orientation (**industrial medicine, public health, research**) or who are **without orientation**, must make themselves known before the beginning of the recommended apprenticeships to the Faculty and to the secretary responsible for the apprenticeships. In addition, the students who choose the public health orientation must contact the secretary of the School of Public Health, and those who choose the biomedical research orientation must contact the Committee for research students.

A. Course content

Compulsory core courses

The compulsory courses run from 20th September to 26th November, 2004.

During the course of the 1st semester of the 3rd PhD year, the student will complete his basic studies with compulsory course. He will personalise his studies by choosing a specific branch of studies and options.

Head and neck sector, coordinated by Chr. Sindic, comprising the 4 following courses :

<u>MEDI2300</u>	Diseases of the nervous system : Neurology, Neuropediatrics, Neurosurgery and Neuropharmacology[65h] (in French)	Geneviève Aubert, Jean-Marie Maloteaux, Marie-Cécile Nassogne, Christian Raftopoulos, Christian Sindic (coord.), Kenou Van Rijckevorsel
<u>MEDI2307</u>	Ophthalmology[20h+2h] (in French)	Patrick De Potter
<u>MEDI2308</u>	Otorhinolaryngology[20h+2h] (in French)	Michel Gersdorff
<u>MEDI2309</u>	Oral and Maxillofacial diseases[9h] (in French)	Hervé Reyckler

Other courses

<u>MEDI2310</u>	Dermatologie[20h] (in French)	Liliane MAROT
<u>MEDI2311</u>	Cliniques intégrées[15h] (in French)	André Geubel, Olivier Gurné, Alex Kartheuser, Michel Lambert (coord.), Dominique Pestiaux, Daniel Rodenstein, Dominique Vanpee, Romain Vanwijck
<u>MEDI2304</u>	Societal and ethical dimensions of health , disease and	Cécile Bolly, Mylene Botbol,

medicine[24h] (in French)

Marie-Christine Closon, Alain Deccache, William D'Hoore, Michel Dupuis, Jean Laperche, Dominique Lison, Luc Michel, Didier Moulin (coord.), Dominique Pestiaux, Luc Roegiers, Francis Roger France, Geneviève Schamps, Christian Swine, Michel Vanhalewyn, Dominique Vanpee

MED2342 P Health system and medico-social organisation [8h] J.-M. Ketelslegers
MED2380 Medical prescription[3h+14h] (1 credits) (in French)

Pierre Chevalier, Cassian Minguet, Dominique Pestiaux (coord.), Daniel Vanthuyne

[partim : 3 hours]

and one of the 3 following courses

MD2201 Christian ethics[15h] (2 credits) (in French)
MD2202 Faith and reason[15h] (2 credits) (in French)
MD2203 Questions of Religious Sciences : The Bible and his Message[15h] (2 credits) (in French)

Philippe Goffinet
N.
Jean-Marie Van Cangh

Courses specific to the study branches

Depending on his future orientation, the student will choose one study branch from among the others :

General medicine branch

For the students choosing this branch, the 3rd year PhD programme includes :

- the compulsory core courses,
- the following specific compulsory courses, prerequisites for registering for the CUMG in the 4th PhD year and compulsory for the certificate for 200 hours :

MEGE2331 Specific aspects of medical psychology in the field of medicine[15h] (in French)
MED2370 Geriatric medicine[15h] (1 credits) (in French)
MEGE2323 Elements of emergency medicine in general practice[15h] (in French)

Philippe Heureux (coord.), Philippe van Meerbeeck
Pascale CORNETTE, Philippe Heureux, Philippe Meire, Christian Swine (coord.)
Stéphan Clément de Cléty, Vincent Dubois, Philippe Meert, Didier Thillaye du Boullay, Frédéric Thys, Daniel Vanthuyne (coord.)

- the options :

The students are not obliged to take an optional course.

The following course is, nevertheless, recommended to help enable the future general practitioner obtain the complementary certificate in interpreting electrocardiograms, after being awarded his degree.

INTR3290 INTERPRETATION OF THE ELECTROCARDIOGRAM[45h+0h] (3 credits) (in French)

Christian Brohet, Daniel De Jonghe, Luc De Roy

Specialised branch of medicine studies and research

For the students choosing this branch, the 3rd year PhD programme includes :

- the compulsory core courses,
- an emergency course, to be chosen from among the courses on elements of emergency care in general medicine (MEGE2323) or the following course :

MED2346 Séminaires de soins intensifs: le patient critique[20h] (2 credits) (in French)

Stéphan Clément de Cléty, Philippe Hantson, Luc-Marie Jacquet, Pierre-François Laterre, Olivier VAN CAENEGEM

- the options :

The students must choose at least one optional course.

Industrial medicine study branch

Students aiming to do industrial medicine, which is a recognised medical specialisation and practised in a right of its own :

- should, in their own interest, follow 30 hours of options to be chosen from among the following courses :

EDUS2241 Santé du travail et de l'environnement[30h] (in French)
MDTR3160 Physiologie du travail[15h] (in French)
MDTR3270 Législation médico-sociale[15h] (in French)

Dominique Lison
Henri Nielens
Jacques Van Drooghenbroeck, Luc Van Hamme

- must choose one of the two following emergency care courses:

MEGE2323 Elements of emergency medicine in general practice[15h] (in French)

Stéphan Clément de Cléty, Vincent Dubois, Philippe Meert, Didier Thillaye du Boullay, Frédéric Thys, Daniel

<u>MED2346</u>	Séminaires de soins intensifs: le patient critique[20h] (2 credits) (in French)	Vanthuyne (coord.) Stéphane Clément de Cléty, Philippe Hantson, Luc-Marie Jacquet, Pierre-François Laterre, Olivier VAN CAENEGEM
----------------	---	---

Other study branches in public health

For the students who wish to orientate themselves towards public health jobs other than that of industrial medicine, no prerequisite is obligatory.

Their programme will be one of the two study branches, general medicine or specialised medicine.

It is, however, advisable that they choose a collection of options to do with their future orientation from among the courses offered by the 2nd cycle programme of complementary studies in quantitative methods and health sciences (ESP 2DC), or from the list of courses offering training in the domain of social medicine or preventative medicine

List of options recommended for the 3rd PhD year.

The list below presents the options recommended for the students as from the 2nd PhD year. The type of course is also indicated : complement (C), "awareness" ("éveil") course, (Ev), preparation for exam (PC) and, if applicable, as a priority if the course constitutes a compulsory part of another programme (example : ESP : forms part of the Public Health School programmes).

<u>ANES2310</u>	Advanced elements in anaesthesiology[22.5h] (2 credits) (in French)	Marc De Kock, François Singelyn, Luc Van Obbergh
<i>PC</i>		
<u>CHG2200</u>	Plastic surgery[15h] (in French)	Bénédicte BAYET, Benoît Lengelé, Romain Vanwijck
<i>C et PC</i>		
<u>DERM2112</u>	Dermatologie, théorie et clinique[18h+8h] (2 credits) (in French)	Liliane MAROT
<i>[partim : 15 hours]</i>		
<i>C</i>		
<u>DERM2120</u>	Compléments de dermatologie[15h] (1 credits) (in French)	Liliane MAROT
<i>C</i>		
<u>ESP3511</u>	Epidémiologie clinique: médecine basée sur les preuves[15h] (2 credits) (in French)	Benoît Boland
<u>ESP3512</u>	Epidémiologie clinique: principes des essais cliniques[15h+15h] (2 credits) (in French)	Annie Robert
<u>ESP3560</u>	Principes et méthodes de médecine scolaire[15h] (in French)	Karin Levie
<u>ESP3570</u>	Médecine scolaire[30h+120h] (in French)	Karin Levie
<i>These 4 "ESP" courses form part of the School of Public Health programmes.</i>		
<u>INTR2430</u>	Human nutrition[15h] (2 credits) (in French)	Jean-Paul Thissen
<i>Compulsory course for the human nutrition orientation of the "licence" studies in biomedical sciences.</i>		
<u>INTR3650</u>	Séminaire de médecine interne[45h] (in French)	Philippe Collard, Pierre Deprez, Cédric Hermans, Frédéric Houssiau, Michel Lambert, Jean-Pascal Machiels, Philippe Meert, Yves Pirson, Jean Renkin, Daniel Rodenstein (coord.)
<i>[partim : 15 hours]</i>		
<i>PC</i>		
<u>MED2252</u>	Stomatologie, théorie et clinique[6h] (in French)	Hervé Reyckler
<i>C</i>		
<u>MED2300</u>	Séminaire de déontologie médicale[15h] (2 credits) (in French)	Mylene Botbol, Luc Michel, Geneviève Schamps
<i>C</i>		
<u>MED2430</u>	Eléments de statistiques médicales[15h+15h] (3 credits) (in French)	William D'Hoore, Annie Robert
<i>Ev</i>		
<u>NEPE2310</u>	Pediatric neurology : complements[15h] (1 credits) (in French)	Christine Bonnier, Florence Christiaens, Marie-Cécile Nassogne
<i>C</i>		
<u>NEPE2311</u>	Differential diagnosis in pediatric neurology[15h] (2 credits) (in French)	Christine Bonnier, Florence Christiaens, Marie-Cécile Nassogne
<i>C</i>		
<u>NEUR2190</u>	Clinical controversies in Neurology[15h] (1 credits) (in French)	Patrice Laloux, Christian Sindic

<u>C</u>		
<u>OFTA2120</u>	Complement of ophthalmology[15h] (2 credits) (in French)	Patrick De Potter (coord.), Michèle Morel
<u>PC</u>		
<u>ORL2112</u>	Daily Consultations in Oto-rhino-laryngology[15h] (1 credits) (in French)	Michel Gersdorff, Marc Hamoir
<u>C</u>		
<u>PSYC2141</u>	Psychosomatic I (neurotic somatic symptoms and psychoanalytic psychotherapies for individuals, couples and groups)[30h] (3 credits) (in French)	Patrice De Neuter (coord.), Vincent Jadoulle
<u>Ev</u>		
<u>PSYC2170</u>	Biological psychiatry[30h] (2 credits) (in French)	Jean-Marie Maloteaux, Arlette Seghers
<u>Ev</u>		
<u>RDGN2120</u>	Neuroradiology[15h] (in French)	Guy Cosnard (coord.), Thierry Duprez, Cécile GRANDIN

C
Courses from the *certificate in gerontology* programme (GERO 2CE) are equally accessible in the form of options to PhD students in Medecine.

B. Apprenticeships

The full-time apprenticeships begin in January.

During the 2nd semester of the 3rd PhD year and the 1st semester of the 4th year, the student will do 6 periods of 2 months of apprenticeships (4 periods of compulsory apprenticeships and 2 periods of recommended ones).

The **compulsory apprenticeships** are divided up as follows :

- Medecine (adults) : 2 months
- Medecine (children) : 2 months
- Gynecology-obstetrics : 2 months
- Surgery : 2 months.

The students must do 2 periods of 2 months of so-called recommended apprenticeships of which the list covers all of the medical specialisations.

The catalogue of apprenticeships, the " maîtres de stages" (training supervisors) and apprenticeship centres is available at the Administration Office for the apprenticeships. The apprenticeship activities are documented in a special note-book and evaluated on official formulae given to the student.

Special **support seminars** are organised in the different departements including :

<u>CHIR2360</u>	Discussion of surgical pathology[15h] (in French)	Jan Lerut, Pascal POILVACHE
<u>GYNE2360</u>	Discussion of gynecological cases[4h] (in French)	Jacques Donnez, Jean-Luc SQUIFFLET
<u>INTR2360</u>	CLINICAL CASE DISCUSSION IN GENERAL INTERNAL MEDICINE[15h] (in French)	Dominique Vanpee (coord.), Jean Cyr YOMBI
<u>OBST2360</u>	Discussion de cas d'obstétrique[4h] (in French)	Pierre Bernard, Corinne Hubinont
<u>PEDI2360</u>	Pediatric clinical practice[7h] (in French)	Bénédicte Brichard, DOMINIQUE HERMANS, Thierry Sluysmans, Etienne Sokal (coord.), Christiane Vermlyen

The internal reglementation is given to the students as from the 2nd year of studies. This governs the practical procedures for the apprenticeships. *Apprenticeships in developing countries* are only accessible to the students who have successfully completed the course on tropical hygiene (MED 2180) and the course on health and development (MED 2260) or another course approved by the person in charge of the apprenticeships in developing countries (M. Malengreau), in such a way that a total of 45 hours is attained.

The administration office for the apprenticeships will examine whether the obligations concerning the apprenticeships have been fulfilled on the basis of the student's application and will inform the jury of the 3rd year of any lacks and absences noted during the course of the 2nd semester of this year.

At the end of each of the obligatory apprenticeships, the student must do an **important clinical exam** which will globally evaluate the theoretical and practical knowledge of the subject concerned. The marks of these exams will be examined during the deliberation of the fourth year of studies.

C. Complementary certificates

Interpreting electro-cardiogrammes

The students and doctors wishing to obtain the certificate attesting the ability to interpret electro-cardiogrammes, will follow this course :

<u>INTR3290</u>	INTERPRETATION OF THE ELECTROCARDIOGRAM[45h+0h] (3 credits) (in French)	Christian Brohet, Daniel De Jonghe, Luc De Roy
-----------------	---	--

The certificate will be awarded to students who have obtained a minimum of **14/20** in the exam.

Preventative medicine

Coordinator : Unit of epidemiology - M. Malengreau.

In order to respond to the requirements imposed on doctors wishing to work with "ONE" consultations, the Faculty of

Medecine organises a complementary course of 30 hours in the domain of preventive medecine in infants and young children.

<u>PEDI2190</u>	Preventive medicine in infants and children[30h] (2 credits) (in French)	Eddy Bodart, Naima Deggouj, Christiane Demars-Fremault, Myriam Malengreau (coord.), Jean-Jacques Rombouts, Dominique TENNSTEDT, Demet Yuksel
-----------------	---	--

This course is also accessible :

- to general practitioners, subject to registering on an isolated course at UCL and to general practitioners doing a specific complementary training course at UCL (DES in general medecine)
- to pediatricians training at UCL, without registering (optional course),
- to DES students in public health

A certificate is officially delivered by the Faculty of Medecine to the doctor in medecine diploma holder who has obtained a minimum of **12/20** in the exam.

Use of X-rays in medical diagnoses

(Royal Decree of 07/09/1993, "Moniteur belge" of 15/10/1993)

Coordinator : B. Maldague.

The students and doctors in medecine wishing to obtain ministerial approval for using x-rays for the purpose of medical diagnoses or x-ray guided treatment in the context of their speciality, will follow these courses :

<u>RDGN3120</u>	Methods, techniques and quality controle in medical imaging[25h+5h] (in French)	Philippe Clapuyt, Guy Cosnard, Etienne Danse, André Noël Dardenne, Jean-François De Wispelaere, Thierry Duprez, Pierre Goffette, Cécile GRANDIN, Frank Hammer, Marc LACROSSE, Baudouin Maldague (coord.), Jacques Malghem, Bernard Van Beers, Bruno Vande Berg
<u>RPR2002</u>	Compléments de radioprotection[20h+10h] (in French)	Philippe Clapuyt, François Jamar, Pierre Scalliet (coord.), Patrick Smeesters

In addition, the candidates will have to **do an apprenticeship of 4 weeks** in a service of medical imaging recognised by the Teaching Committee. For the RDGN 3120 course and the apprenticeship, special derogations can be granted by the Teaching Committee for specialist doctors or specialist candidates in certain areas including cardiology, pneumology, gastro-enterology, rheumatology, anesthesiology, orthopedic and vascular surgery, neurology and neurosurgery.

MED24 Fourth year of studies

Introduction

The seventh year can be followed in one of the 4 following orientations :

General medecine orientation

This orientation prepares the student for the specialised study diploma in general medecine. The students who opt for this orientation must be registered at the university Centre of general medecine (CUMG) from the beginning of the 4th year (September), in order to validate the specific intra curriculum training course.

The selection of doctors for general medecine is limited by the quota published in the Royal Decree relating to the planning of the medical offer of 30/05/2002, published in the "Moniteur belge" of 14/06/2002.

Specialised medecine orientation

The second semester calendar for the students choosing the orientation in specialised medecine is adapted to the requirements linked to the selection procedure for the future specialist candidate doctors.

The number of available openings for the specialisits is determined by the quota published in the Royal Decree relating to the planning of the medical offer of 30/05/2002 published in the "Moniteur belge" of 14/06/2002. Access to a speciality is based on the results of the selection exams.

The students register for the speciality exams via the President of the Selection Committee concerned, at the beginning of the 2nd semester of the 4th year To ensure the smooth organisation of their apprenticeships, prior to the exams, they must submit their apprenticeship programme to the Administration Office for the apprenticeships as from the month of November of this same year.

Biomedical research orientation

This orientation is open to students wishing to pursue a career in research. The programme is managed by the Research Student Committee.

For these students, the second semester of the 4th year will consist of full-time apprenticeships in one or several research laboratories of the Faculty.

The programme, composed by the student and his promoter, will be submitted to the President of the Research Student Committee, **before 1st December**. For 20th December, the whole of the programme will have been approved by the Committee who will inform the student, his promoter and the President of the 4th year committee of their decision.

Public health orientation (including industrial medicine)

A common core syllabus in the different domains of public health can serve as a basis for a whole series of future professional activities (and possibly complementary training courses).

These widely diverse activities are different from the basic medical training course and focus is placed on preventative rather than curative medicine, on a "programmes and populations" approach rather than on "care and individuals" and on the function of an expert rather than a therapist.

It is the Public Health School that delivers the 2nd and 3rd cycle courses in the different domains of interest to public health. *The students may have the apprenticeships they have completed valued after their sixth year of medical studies in the context of their specific training in general medicine if they register at the CUMG (University Centre of General Medicine) and follow a programme organised by the CUMG (European Directive 93/16/CE of 05/04/1993).*

Programmes**General medicine orientation****First semester**

Hospital apprenticeships organised and approved by the CUMG. Students of this orientation must choose their recommended apprenticeships from the list approved by the CUMG.

Second semester**A. Apprenticeships**

Six months of apprenticeship in general medicine, including 3 months with a training supervisor (" maître de stage") in general medicine, nominated by the Faculty. The rest is divided between 1 to 3 months maximum under the supervision of a person in charge of this training, chosen by the student, and/or 1 month's external pedagogical apprenticeship in general medicine.

B. Course work

The interactive studies and practical work experience is organised, during the second semester, on the *return day*, on Fridays. These studies include the following courses which are only accessible to the students who carry out their apprenticeships in general medicine in the context of the CUMG, during this semester :

All of these courses are recognised by the CUMG.

<u>MED2380</u>	Medical prescription[3h+14h] (1 credits) (in French)	Pierre Chevalier, Cassian Minguet, Dominique Pestiaux (coord.), Daniel Vanthuynne
<i>[partim : 14 hours]</i>		
<u>MEGE2101</u>	General practice seminars[22h] (in French)	Philippe Heureux, Cassian Minguet, Dominique Pestiaux, Daniel Vanthuynne (coord.)
<u>MEGE3021</u>	Seek, medical literature and quality of care in general practice[20h] (in French)	Dominique Paulus
<u>MEGE3040</u>	Logistic organization of a general practice[16h] (in French)	Dominique Pestiaux, Charles Vanwelde
<u>MEGE2000</u>	Parcours de formation et tutorat[20h] (in French)	N.
<i>and one option to be chosen from among the following :</i>		
<u>MEGE2121</u>	Special questions from the general practice attachment[16h] (in French)	Daniel Vanthuynne
<u>MEGE2432</u>	Workshop of sensibilisation to patient-doctor relationship in Family Practice[16h] (in French)	Dominique Charlier, Philippe Heureux (coord.), Dominique Pestiaux, Christine Reynaert
<u>MEGE2122</u>	Technical Skills and Aptitudes in General Practice[16h] (in French)	Daniel Vanthuynne, Charles Vanwelde (coord.)
<u>MEGE3011</u>	Advanced aspects of primary care[20h] (in French)	Cécile Bolly, Jean Laperche, Dominique Pestiaux (coord.), Michel Vanhalewyn
<u>PEDI2190</u>	Preventive medicine in infants and children[30h] (2 credits) (in French)	Eddy Bodart, Naima Deggouj, Christiane Demars-Fremault, Myriam Malengreau (coord.), Jean-Jacques Rombouts, Dominique TENNSTEDT, Demet Yuksel

(1st part, PEDI2190 A, 15 hours)

The **jury for general medicine** meets between the end of May and mid-June.

On completing their studies, the students following the general medicine orientation must have done a total of 200 hours of courses organised by the CUMG which constitute the necessary prerequisites for all training in post-curriculum general medicine.

Other orientations**First semester**

During the 1st semester of the 4th year, the student will complete the obligatory and recommended apprenticeships started during the 2nd semester of the 3rd year. He will finish his 4 important clinical exams.

The evaluation of these apprenticeships and exams will be subject to a partial pre-deliberation, in January.

Second semester

The 2nd semester of the 4th year and an orientation semester, already prepared for during the 3rd year, in accordance with the branch of studies selected.

Specialised medicine orientation

The second semester comprises 6 months of apprenticeship. The student must do the apprenticeship in the speciality/ies he is applying for. In fact, for the future specialists, it is during the course of this semester that the special selection exams (" **concours** ") take place for the selection of the specialised candidate assistant doctor clinicians (MACCS).

Students wishing to specialise in *stomatology or maxillo-facial surgery*, must be selected for the access exams for this speciality, before being able to begin this course.

Students wishing to complete their 200 recognised hours, so that they may reorientate towards general medicine in the case of not being selected after the specialist access exams, must follow a course approved by the CUMG.

Research orientation

For students choosing this orientation, the 2nd semester of the 4th year will consist of full-time apprenticeships in one or several laboratories of the Faculty of Medicine.

They may, if they so wish, follow a collection of courses chosen in accordance with their scientific interest (possibly from another Faculty). This programme (apprenticeship and course work), composed by the student and his promoter, will be sent to the Committee President for the 4th year and to the President of the Committee for research students before the 1st December. The totality of the programme for the 2nd semester of the 4th year will have to be approved by the Committee for research students before 20th December. The Committee will inform the students, his promoter, the President of the 4th year and the Faculty, of the decision.

Industrial Medicine orientation

During the course of the 2nd semester of the 4th year, the student must do at least twice two months of apprenticeship under the supervision of an industrial work apprenticeship training supervisor recognised by the Faculty (please address Professor D. Lison, TOXI 3054, Tel. 02/764.32.20).

Other orientations in Public Health

For the students choosing this orientation, the 2nd semester of the 4th year includes apprenticeships in institutions responsible for a community health programme (please address R. Tonglet, EPID 3034, Tel. 02/764.33.20), plus apprenticeships in approved medical practices.

The choice of the apprenticeship centres will be determined in accordance with the orientation chosen by the student : community health, health and environment, school medicine, expertise medicine, health education, management and administration of health institutions, epidemiology, clinical research, etc.

Evaluation

At the end of each of the apprenticeship periods, the student must do an important clinical exam which will globally evaluate the theoretical and practical knowledge of the subject discipline concerned. The marks of these exams will be analysed during the deliberation of the 4th year. The jury for the 4th year will deliberate on these marks and the apprenticeship reports.

The final result will be awarded by a study jury which will integrate the study curriculum of the student and the evaluation of the activities of the research student.