UNIVERSITÉ PARIS DESCARTES — ParisTech INSTITUT DES SCIENCES ET TECHNOLOGIES PARIS INSTITUTE OF TECHNOLOGY

BME Paris - Master 2

BioMedical Engineering

Academic year 2011-2012

Version du 13 juillet 2011

bme Paris BioMedical Engineering MASTER PROGRAM

(BM)² : Biomechanics & Biomaterials

FIRST SEMESTER

8 30 9 30 10 30 11 30 12 30 13 30 14 30 15 30 16 30 17 30 18 30 19

S1

Sep M 12 — Inscription Administrative - Choix projet; Matinée d'accueil BME-Paris; Rentrée (BM)² - Accueil général; Inscription Administrative - Choix projet; Inscription Administrative - Choix projet

T 13 — Inscription Administrative - Choix projet; Rentrée (BM)² - Accueil général; Inscription Administrative - Choix projet

W 14 — Matinée d'accueil BME-Paris; Inscription Administrative - Choix projet

T 15 — Immersion Clinique *(Choix projet)*

F 16 — Immersion Clinique *(Choix projet)*

S2

M 19 — Visites d'entreprise *(Choix projet)*

T 20 — Visites d'entreprise *(Choix projet)*

W 21 — Visites d'entreprise *(Choix projet)*

T 22 — Immersion Clinique *(Choix projet)*

F 23 — Immersion Clinique *(Choix projet)*

S3

M 26 — UE 3.4 Basics in Cell Biology 1; UE 3.2 Methodology and Tutorial Project 1

T 27 — UE 3.3 Modelling and Simulation for Biomechanics 1; UE 3.5 Basics in Biomaterials Science 1

W 28 — Projet Tutoré; Projet Tutoré

T 29 — UE 3.3 Modelling and Simulation for Biomechanics 2; Anglais; Projet Tutoré

F 30 — UE 3.4 Basics in Cell Biology 2; SEMINAR; Projet Tutoré

S4

Oct M 3 — UE 3.4 Basics in Cell Biology 3; Projet Tutoré

T 4 — UE 3.3 Modelling and Simulation for Biomechanics 3; UE 3.5 Basics in Biomaterials Science 2

W 5 — Projet Tutoré; Projet Tutoré

T 6 — UE 3.3 Modelling and Simulation for Biomechanics 4; Anglais; Projet Tutoré

F 7 — UE 3.5 Basics in Biomaterials Science 3; SEMINAR; Projet Tutoré

S5

M 10 — UE 3.4 Basics in Cell Biology 4; UE 3.2 Meth. & Tut. Project

T 11 — UE 3.3 Modelling and Simulation for Biomechanics; UE 3.5 Basics in Biomaterials Science 4

W 12 — Projet Tutoré; Projet Tutoré

T 13 — UE 3.4 Basics in Cell Biology 5; Anglais; Projet Tutoré

F 14 — UE 3.5 Basics in Biomaterials Science 5; SEMINAR; UE. Anatomy

S6

M 17 — UE 3.4 Basics in Cell Biology 6; Projet Tutoré

T 18 — UE 3.3 Modelling and Simulation for Biomechanics 6; UE 3.5 Basics in Biomaterials Science 6

W 19 — Projet Tutoré; Projet Tutoré

T 20 — UE 3.3 Modelling and Simulation for Biomechanics 7; Anglais; Projet Tutoré

F 21 — UE 3.5 Basics in Biomaterials Science 7; SEMINAR; UE. Anatomy

S7

M 24 — UE 3.4 Basics in Cell Biology 7; Advanced preparation to subtracks

T 25 — UE 3.3 Modelling and Simulation for Biomechanics 8; Advanced preparation to subtracks

W 26 — Projet Tutoré; Projet Tutoré

T 27 — UE 3.4 Basics in Cell Biology 8; Anglais; Projet Tutoré

F 28 — UE 3.5 Basics in Biomaterials Science 8; SEMINAR; UE. Anatomy

S8

M 31 — Off

Nov T 1 — Férié

W 2 — EXAMEN UE 3.3; Projet Tutoré

T 3 — EXAMEN UE 3.4; Anglais; Projet Tutoré

F 4 — EXAMEN UE 3.5; SEMINAR; UE. Anatomy

S9

M 7 — Semaine "SOFCOT" // Projet Tutoré

T 8

W 9

T 10

F 11 — Férié

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bme Paris BioMedical Engineering MASTER PROGRAM

(BM)² : Biomechanics & Biomaterials
I2M : IMPACT & INJURY MECHANISMS

FIRST SEMESTER

			8 30	9 30	10 30	11 30	12 30	13 30	14 30	15 30	16 30	17 30	18 30	19
		S10		U.E. 3.6a Accidentology & regulations 1					3.6e Neuro Engineering					
	M	14		U.E. 3.7a Impact mechanics & high velocities 1					Projet Tutoré					
	T	15		UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	W	16		3.8a Experimental methods for impact biomechanics 1					Anglais		Projet Tutoré			
	T	17		3.9a Traumatology, injury mechanisms & therapies 1					SEMINAR			UE. Anatomy		
	F	18												
		S11		U.E. 3.6a Accidentology & regulations 2					3.6e Neuro Engineering					
	M	21		U.E. 3.7a Impact mechanics & high velocities 2					Projet Tutoré					
	T	22		Projet Tutoré					Projet Tutoré					
	W	23		3.8a Experimental methods for impact biomechanics 2					Anglais		Projet Tutoré			
	T	24		3.9a Traumatology, injury mechanisms & therapies 2					SEMINAR			UE. Anatomy		
	F	25												
		S12		U.E. 3.6a Accidentology & regulations 3					3.6e Neuro Engineering					
	M	28		U.E. 3.7a Impact mechanics & high velocities 3					Projet Tutoré					
	T	29		Projet Tutoré					Projet Tutoré					
	W	30		3.8a Experimental methods for impact biomechanics 3					Anglais		Projet Tutoré			
Dec	T	1		3.9a Traumatology, injury mechanisms & therapies 3					SEMINAR			UE. Anatomy		
	F	2												
		S13		U.E. 3.6a Accidentology & regulations 4					3.6e Neuro Engineering					
	M	5		U.E. 3.7a Impact mechanics & high velocities 4					Projet Tutoré					
	T	6		Projet Tutoré					Projet Tutoré					
	W	7		3.8a Experimental methods for impact biomechanics 4					Anglais		Projet Tutoré			
	T	8		3.9a Traumatology, injury mechanisms & therapies 4					SEMINAR			UE. Anatomy		
	F	9												
		S14		U.E. 3.6a Accidentology & regulations 5					3.6e Neuro Engineering					
	M	12		U.E. 3.7a Impact mechanics & high velocities 5					Projet Tutoré					
	T	13		Projet Tutoré					Projet Tutoré					
	W	14		3.8a Experimental methods for impact biomechanics 5					Anglais		Projet Tutoré			
	T	15		3.9a Traumatology, injury mechanisms & therapies 5					SEMINAR		Projet Tutoré			
	F	16												
				Vacances de Noël : 17 écembre 2011 au 2 janvier 2012										
		S15												
Jan	M	2		Férié										
	T	3		Projet Tutoré					Projet Tutoré					
	W	4												
	T	5		UE 3.0 : Interdisciplinary Seminar										
	F	6												
		S16		U.E. 3.6a Accidentology & regulations 6					3.6e Neuro Engineering					
	M	9		U.E. 3.7a Impact mechanics & high velocities 6					Projet Tutoré					
	T	10		UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	W	11		3.8a Experimental methods for impact biomechanics 6					Anglais		Projet Tutoré			
	T	12		3.9a Traumatology, injury mechanisms & therapies 6					SEMINAR			UE. Anatomy		
	F	13												
		S17		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	M	16		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	T	17		Rattrapage de cours / Révision					Rattrapage de cours / Révision		UE. Anatomy			
	W	18		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	T	19		Rattrapage de cours / Révision					SEMINAR		Projet Tutoré			
	F	20												
		S18		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	M	23		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	T	24		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	W	25		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	T	26		EXAM Subtrack specific Teaching Units					SEMINAR		Projet Tutoré			
	F	27												

UNIVERSITÉ PARIS DESCARTES — ParisTech INSTITUT DES SCIENCES ET TECHNOLOGIES PARIS INSTITUTE OF TECHNOLOGY

BME Paris - Master 2

BioMedical Engineering

Academic year 2011-2012

Version du 13 juillet 2011

bme Paris BioMedical Engineering MASTER PROGRAM

(BM)² : Biomechanics & Biomaterials

MS2 : MUSCULOSKELETIC SYSTEM

FIRST SEMESTER

			8 30	9 30	10 30	11 30	12 30	13 30	14 30	15 30	16 30	17 30	18 30	19
		S10												
	M	14		Projet Tutoré					Projet Tutoré					
	T	15		UE 3.7c Medical imaging & geometrical modeling 1					3.9c Movement analysis & Locomotion 1					
	W	16		UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	T	17		Projet Tutoré					Anglais	3.8c Muscular system modeling 1				
	F	18		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		UE. Anatomy			
		S11												
	M	21		Projet Tutoré					Projet Tutoré					
	T	22		UE 3.7c Medical imaging & geometrical modeling 2					3.9c Movement analysis & Locomotion 2					
	W	23		Projet Tutoré					Projet Tutoré					
	T	24		Projet Tutoré					Anglais	3.8c Muscular system modeling 2				
	F	25		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		UE. Anatomy			
		S12												
	M	28		Projet Tutoré					Projet Tutoré					
	T	29		UE 3.7c Medical imaging & geometrical modeling 3					3.9c Movement analysis & Locomotion 3					
	W	30		Projet Tutoré					Projet Tutoré					
Dec	T	1		Projet Tutoré					Anglais	3.8c Muscular system modeling 3				
	F	2		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		UE. Anatomy			
		S13												
	M	5		Projet Tutoré					Projet Tutoré					
	T	6		UE 3.7c Medical imaging & geometrical modeling 4					3.9c Movement analysis & Locomotion 4					
	W	7		Projet Tutoré					Projet Tutoré					
	T	8		Projet Tutoré					Anglais	3.8c Muscular system modeling 4				
	F	9		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		UE. Anatomy			
		S14												
	M	12		Projet Tutoré					Projet Tutoré					
	T	13		UE 3.7c Medical imaging & geometrical modeling 5					3.9c Movement analysis & Locomotion 5					
	W	14		Projet Tutoré					Projet Tutoré					
	T	15		Projet Tutoré					Anglais	3.8c Muscular system modeling 5				
	F	16		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		Projet Tutoré			
			Vacances de Noël : 17 écembre 2011 au 2 janvier 2012											
		S15												
Jan	M	2	Férié											
	T	3		Projet Tutoré					Projet Tutoré					
	W	4	UE 3.0 : Interdisciplinary Seminar											
	T	5												
	F	6												
		S16												
	M	9		Projet Tutoré					Projet Tutoré					
	T	10		UE 3.7c Medical imaging & geometrical modeling 5					3.9c Movement analysis & Locomotion 6					
	W	11		UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	T	12		Projet Tutoré					Anglais	3.8c Muscular system modeling 6				
	F	13		3.6c Non-linear aspects for the musculoskeletal modeling					SEMINAR		UE. Anatomy			
		S17												
	M	16		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	T	17		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	W	18		Rattrapage de cours / Révision					Rattrapage de cours / Révision		UE. Anatomy			
	T	19		Rattrapage de cours / Révision					Rattrapage de cours / Révision					
	F	20		Rattrapage de cours / Révision					SEMINAR		Projet Tutoré			
		S18												
	M	23		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	T	24		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	W	25		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	T	26		EXAM Subtrack specific Teaching Units					EXAM Subtrack specific Teaching Units					
	F	27		EXAM Subtrack specific Teaching Units					SEMINAR		Projet Tutoré			

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BME Paris - Master 2

BioMedical Engineering

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bme Paris BioMedical Engineering MASTER PROGRAM

(BM)² : Biomechanics & Biomaterials

B2M: BIOMATERIALS & BIOLOGICAL MATERIALS

FIRST SEMESTER

			8 30	9 30	10 30	11 30	12 30	13 30	14 30	15 30	16 30	17 30	18 30	19
		S10												
	M 14			UE 3.7b Tissue Engineering and Implant Design 1					Projet Tutoré					
	T 15			UE 3.8b Handling of Proteins and Biomembranes 1						UE 3.11b Cardiovascular 1				
	W 16			UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	T 17			UE 3.7b Tissue Engineering and Implant Design 2					Anglais	Projet Tutoré				
	F 18			UE 3.9b Biointerfaces 1					SEMINAR			UE. Anatomy		
		S11												
	M 21			UE 3.10b Engineering of Biosourced Polymers 1						UE 3.10b Engineering of Biosourced Polymers 2				
	T 22			UE 3.8b Handling of Proteins and Biomembranes 2						UE 3.11b Cardiovascular 2				
	W 23			Projet Tutoré					Projet Tutoré					
	T 24			UE 3.7b Tissue Engineering and Implant Design 3					Anglais	Projet Tutoré				
	F 25			UE 3.9b Biointerfaces 2					SEMINAR			UE. Anatomy		
		S12												
	M 28			UE 3.10b Engineering of Biosourced Polymers 3						UE 3.10b Engineering of Biosourced Polymers 4				
	T 29			UE 3.8b Handling of Proteins and Biomembranes 3						UE 3.11b Cardiovascular 3				
	W 30			Projet Tutoré					Projet Tutoré					
Dec	T 1			UE 3.7b Tissue Engineering and Implant Design 4					Anglais	Projet Tutoré				
	F 2			UE 3.9b Biointerfaces 3					SEMINAR			UE. Anatomy		
		S13												
	M 5			UE 3.7b Tissue Engineering and Implant Design 5					Projet Tutoré					
	T 6			UE 3.8b Handling of Proteins and Biomembranes 4						UE 3.11b Cardiovascular 4				
	W 7			Projet Tutoré					Projet Tutoré					
	T 8			UE 3.7b Tissue Engineering and Implant Design 6					Anglais	Projet Tutoré				
	F 9			UE 3.9b Biointerfaces 4					SEMINAR			UE. Anatomy		
		S14												
	M 12			UE 3.7b Tissue Engineering and Implant Design 7					Projet Tutoré					
	T 13			UE 3.8b Handling of Proteins and Biomembranes 5						UE 3.11b Cardiovascular 5				
	W 14			Projet Tutoré					Projet Tutoré					
	T 15			UE 3.7b Tissue Engineering and Implant Design 8					Anglais	Projet Tutoré				
	F 16			UE 3.9b Biointerfaces 5					SEMINAR	Projet Tutoré				
			Vacances de Noël : 17 écembre 2011 au 2 janvier 2012											
		S15												
Jan	M 2		Férié											
	T 3			Projet Tutoré						Projet Tutoré				
	W 4													
	T 5			UE 3.0 : Interdisciplinary Seminar										
	F 6													
		S16												
	M 9			Projet Tutoré						Projet Tutoré				
	T 10			UE 3.8b Handling of Proteins and Biomembranes 6						UE 3.11b Cardiovascular 6				
	W 11			UE 3.2 Methodology and Tutorial Project					Projet Tutoré					
	T 12			UE 3.7b Tissue Engineering and Implant Design 9					Anglais	Projet Tutoré				
	F 13			UE 3.9b Biointerfaces 6					SEMINAR			UE. Anatomy		
		S17												
	M 16			Rattrapage de cours / Révision						Rattrapage de cours / Révision				
	T 17			Rattrapage de cours / Révision						Rattrapage de cours / Révision				
	W 18			Rattrapage de cours / Révision						Rattrapage de cours / Révision		UE. Anatomy		
	T 19			Rattrapage de cours / Révision						Rattrapage de cours / Révision				
	F 20			Rattrapage de cours / Révision					SEMINAR	Projet Tutoré				
		S18												
	M 23			EXAM Subtrack specific Teaching Units						EXAM Subtrack specific Teaching Units				
	T 24			EXAM Subtrack specific Teaching Units						EXAM Subtrack specific Teaching Units				
	W 25			EXAM Subtrack specific Teaching Units						EXAM Subtrack specific Teaching Units				
	T 26			EXAM Subtrack specific Teaching Units						EXAM Subtrack specific Teaching Units				
	F 27			EXAM Subtrack specific Teaching Units					SEMINAR	Projet Tutoré				

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(BM)² : Biomechanics & Biomaterials

SECOND SEMESTER

			8 30	9 30	10 30	11 30	12 30	13 30	14 30	15 30	16 30	17 30	18 30	19
Jan	M	30		Lab Training					U.E. 4.1 : Economical and Industrial aspects					
	T	31		Lab Training					U.E. 4.1 : Economical and Industrial aspects					
Fev	W	1		Lab Training					U.E. 4.1 : Economical and Industrial aspects					
	T	2		Projet Tutoré					U.E. 4.1 : Economical and Industrial aspects					
	F	3		Projet Tutoré					U.E. 4.1 : Economical and Industrial aspects					
	M	6	Lab training – 21 weeks - 5 months											
			Soutenances à mi-parcours les 23 & 24 février											
			15 jun 2012 : deadline for lab training report											
Jun	F	22												
	M	25	Lab training											
	T	26												
	W	27	Soutenances Finales											
	T	28	Soutenances Finales											
	F	29	Soutenances Finales											
	M	2		RATTRAPAGES					RATTRAPAGES					
	T	3		RATTRAPAGES					RATTRAPAGES					
	W	4		RATTRAPAGES					RATTRAPAGES					
	T	5	Archivage des projets											
Jul	F	6	Archivage des projets											

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bme Paris BioMedical Engineering MASTER PROGRAM

(BM)² : Biomechanics & Biomaterials

CBM: CLINICAL BIOMECHANICS