

REPUBLIQUE DU CAMEROUN
Paix – Travail – Patrie

INSTITUT UNIVERSITAIRE BENGONO
TOURE GENEVIEVE
Scientiarum - Excellentiam - Nobel



REPUBLIC OF CAMEROON
Peace-Work-Fatherland

THE BENGONO TOURE GENEVIEVE
UNIVERSITY INSTITUTE
SCIENTIARUM – EXCELLENTIAM – NOBEL

INSTITUT SUPERIEUR DES SCIENCES DE L'INGENIEUR, DES INDUSTRIES ET DE L'INNOVATION
THE HIGHER INSTITUTE OF ENGINEERING SCIENCES, INDUSTRIES AND INNOVATION

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DOCTOR OF PHILOSOPHY IN BIOMEDICAL ENGINEERING

CODES	COURSE NAMES	CREDIT
	YEAR I	3
PBME100	Foundations of Biomechanics	3
PBME101	Transport Phenomena in Living Systems	3
PBME102	Mathematical Methods for Bioengineering	3
PBME103	Thermodynamics, Statistical Mechanics, Interfacial Phenomena in Living Systems	3
PBME104	Tissue Engineering and Regenerative Medicine: Foundations	2
PBME105	Communication Skills	3
PBME106	Research Methods	3
PBME107	Organization Behavior	3
PBME108	Human Resource Management	3
PBME109	Principles of Biomedical Imaging	3
PBME110	Systems Biology and Bioengineering	3
PBME111	Cardiovascular Physiology	3
PBME112	Bioinformatics II	3
PBME113	Foundations of Biological Systems I and II	3
PBME115	Respiratory and Renal Physiology	3
PBME116	Thesis seminar I (Doctoral Proposal Development)	3
PBME117	Year One: Phd Research Thesis (Literature Review + Methodology)	10
		60
	YEAR II	
PBME200	Musculoskeletal Health, Injury, and Disease	3
PBME201	Neurophysiology: Molecules to Systems	3
PBME202	Neurodynamics	3
PBME203	Scientific Ethics	3
PBME204	Molecular Bioengineering	3
PBME205	Medical Sciences I and II	3
PBME206	Biomaterials and Tissue Engineering	3

		3
PBME207	Biomedical Systems and Imaging	
PBME208	Bioinformatics	3
PBME209	Biomedical Technology Developmen	4
PBME210	Neuroengineering	4
PBME215	Thesis seminar I (Results and Findings)	5
PBME216	Thesis seminar II(Publication of 2 articles)	10
PBME217	Year Two : Phd Research Thesis (Results and Findings)	10
		60
	YEAR III	
PBME 300	Biomedical Statistics	2
PBME 301	Biomechanics and Human Performance Engineering	2
PBME 302	Principles of Systems Analysis Applied to Biomedicine	4
PBME 310	International Conference + Publication articles(2)	6
PBME 311	Third-Year Research Seminar (Discussion and Conclusion)	6
PBME 312	Year Three: Thesis (Dissertation Defense)	40
		60