

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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BACHELOR'S IN BIOMEDICAL ENGINEERING

CODES	COURSE NAMES	CREDIT
	YEAR ONE	
BME1110	Introduction to research science	4
BME1111	Communication skills	3
BME1112	Engineering mathematics	3
BME1113	Physics (theories and lab)	3
BME1114	Microbiology	3
BME1115	General Chemistry	3
BME1116	Biology and Biochemistry	3
BME1117	Functional exploration equipment	3
BME1118	Surgical equipment	3
BME1119	Ethics and professional engineering	3
BME1120	Anatomy and human physiology	3
BME1121	Computer application	3
BME1122	Anatomy and Physiology	3
BME1123	Field work	3
BME1124	Digital Systems	3
BME1125	Random Signals	3
BME1126	Biostatistics I and II	3
BME1127	Databases	3
BME1128	BME electronics lab	3
		60
	YEAR TWO	
BME2110	Anatomy and Physiology	3
BME2111	Digital Electronics	3
BME2112	Histophysiology	3
BME2112	Signals and Systems	3
BME2113	Circuit Theory	3

BME2114	Biochemistry and Molecular Biology	3
BME2115	Database	3
BME2116	Electromagnetism and Optics	3
BME2117	Dynamical Systems in Biomedical Engineering	3
BME2118	Numerical Methods in Biomedical Engineering	3
BME2119	Circuit Analysis	3
BME2120	Bioengineering Thermodynamics	3
BME2121	Design and Graphics	3
BME2122	Differential Equation	3
BME2123	Quantitative Physiology	3
BME2124	Foundation of cellular and systems Biology	3
BME2125	Engineering electromagnetics Principles	3
BME2126	Engineering Statistics and Analysis	3
BME2127	Anatomy and Physiology	3
BME2128	Digital Electronics	3
		60
	YEAR THREE	
BME3110		3
BME3211	Histophysiology	3
BME3213	Signals and Systems	3
BME3112	Circuit Theory	3
BME3212	Biochemistry and Molecular Biology	3
BME3113	Database	3
BME3114	Electromagnetism and Optics	3
BME3115	Dynamical Systems in Biomedical Engineering	3
BME3116	Numerical Methods in Biomedical Engineering	3
BME3117	Circuit Analysis	3
BME3118	Bioengineering Thermodynamics	3
BME3119	Design and Graphics	3
BME3120	Differential Equation	3
BME3121	Quantitative Physiology	3
BME3122	Foundation of cellular and systems Biology	3
BME3123	Engineering electromagnetics Principles	3
BME3124	Engineering Statistics and Analysis	3
BME3125	Engineering Practice and Professional Values	3
BME3126	Biomedical Engineering design	3
BME3110	Nano medicine Engineering	3
		60
	YEAR FOUR	
BME4114	Regulatory, design and quality Requirements	3
BME4115	Biomechanics	3
BME4116	Biotransport Phenomena	3
BME4117	Research methods	3
BME4118	Biomedical Engineering Capstone Design I & II	3
BME4119	Motion biomechanics	3
BME4120	Advanced design	3

BME3121	Orthopedic and injury biomechanics	3
BME4122	Biomaterials	3
BME4123	Tissue Engineering	3
BME4125	Internship	10
BME4126	Dissertation	20
		60