

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 ENGINEERING IN MECHANICAL ENGINEERING

CODES	COURSE NAMES	CREDIT
	YEAR ONE	
BEME1110	Introduction to research science	4
BEME1111	Communication skills	3
BEME1112	Engineering mathematics	3
BEME1113	Physics (theories and lab)	3
BEME1114	Mechanics I and II	3
BEME1115	C/C++/Java programming	3
BEME1116	Linear Systems	3
BEME1117	Machine Design and Manufacturing Engineering Project 1	3
BEME1118	Differential Calculus with Applications to Physical Sciences and Engineering	3
BEME1119	Ethics and professional engineering	3
BEME1120	Engineering Materials I	3
BEME1121	Computer application	3
BEME1122	Introduction to Engineering I and II	3
BEME1123	Computer aided design I and II	3
BEME1124	Thermodynamics	3
BEME1125	Fluid Mechanics	3
BEME1126	Microcomputer and interfacing technology	3
BEME1127	English	3
BEME1128	Field work	3
		60
	YEAR TWO	
BEME2110	Engineering Materials II	3
BEME2111	Solid Mechanics	3
BEME2112	Electrotechnics & Electronics (including experiments):	3

BEME2112	Production Systems Management	3
BEME2113	Machine Design and Manufacturing Engineering Project 2	3
BEME2114	Machine Dynamics	3
BEME2115	Manufacturing Processes I	3
BEME2116	Mechanical Vibrations	3
BEME2117	Engineering Materials II	3
BEME2118	Interchangeability and Engineering Measurements	3
BEME2119	Computer-Aided Manufacturing	3
BEME2120	Industrial Automation: Robots, PLC, Embedded Systems I	3
BEME2121	Machine and Part Metrology	3
BEME2122	Production Systems Management II	3
BEME2123	Product Design and Development	3
BEME2124	Machine Design and Manufacturing Engineering Project 3	3
BEME2125	Manufacturing Processes II	3
BEME2126	Finite Element Methods	3
BEME2127	Precision engineering	3
BEME2128	Practical work(attachment)	3
		60
BEME3110	Computer Control of Mechatronics Systems	3
BEME3211	Engineering Economy	3
BEME3213	Manufacturing Processes III	3
BEME3112	Professional Engineering Practice	3
BEME3212	Robotics	3
BEME3113	Failure of structural materials	3
BEME3114	Life Cycle Analysis and Sustainability	3
BEME3115		3
	Supply Chain Tactics & Strategies	
BEME3116	Industrial Automation: Robots, PLC, Embedded Systems II	3
BEME3117	Control system Engineering	3
BEME3118	Computer-Aided Engineering (Product Realisation)	3
BEME3119	Solid mechanics and Dynamics	3
BEME3120	Computer Integrated manufacturing	3
BEME3121	Engineering Thermodynamics and Fluid Mechanics	3
BEME3122	Sustainable Development and Environmental Management	3
BEME3123	advanced materials science	3
BEME3124	Mechanical Vibration	3
BEME3125	Control system Engineering	3
BEME3126	Computer-Aided Engineering (Product Realisation)	3
BEME3110	Professional Practice	3
		60
	YEAR FOUR	
BEME4114	Fluid mechanics	3
BEME4115	Advanced Engineering chemistry	3

BEME4116	Engineering Mathematics and Principles	3
BEME4117	Finite element analysis and applications	3
BEME4118	Engineering Operation and Management	3
BEME4119	Computer programming	3
BEME4120	Manufacturing and Regulatory Systems	3
BEME3121	Engineering Design and Workshop Technology	3
BEME4122	Turbomachinery Applications	3
BEME4123	Control Engineering	3
BEME4125	Internship	10
BEME4126	Dissertation	20
		60