

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 AUTOMOTIVE AND POWER ENGINEERING

CODES	COURSE NAMES	CREDIT
	YEAR ONE	
BAPEN1110	Introduction to research science	4
BAPEN1111	Communication skills	3
BAPEN1112	Engineering mathematics I	3
BAPEN1113	Physics (theories and lab)	3
BAPEN1114	Thermodynamics	3
BAPEN1115	Internal Combustion Engines	3
BAPEN1116	Production Technology I	3
BAPEN1117	Engineering Drawing	3
BAPEN1118	Electrical Technology	3
BAPEN1119	Ethics and professional engineering	3
BAPEN1120	Environmental Technology	3
BAPEN1121	Computer application	3
BAPEN1122	Industrial Training I	3
BAPEN1123	General Chemistry	3
BAPEN1124	Advanced Energy Solutions	3
BAPEN1125	Fuel Cells and Fuel Processors	3
BAPEN1126	Advanced Combustion	3
BAPEN1127	Intermediate Dynamics and Vibrations	3
BAPEN1128	Field Work	3
		60
	YEAR TWO	
BAPEN2110	Entrepreneurship Skills	3
BAPEN2111	Materials Science	3

BAPEN2112	Electrical Devices and Machines	3
BAPEN2112	Engineering Mathematics II	3
BAPEN2113	Industrial Training II	3
BAPEN2114	Computing for Mechanical Engineering	3
BAPEN2115	Mechanics of Fluids I	3
BAPEN2116	Auto-Tractor Technology I	3
BAPEN2117	Engine Technology II	3
BAPEN2118	Internal Combustion Engines	3
BAPEN2119	Advanced Internal Combustion Engines	3
BAPEN2120	Dynamics and Controls of automatic Transmissions	3
BAPEN2121	Hybrid Electric Vehicles	3
BAPEN2122	Modeling and Analysis of Vehicle Systems	3
BAPEN2123	Vehicle Dynamics	3
BAPEN2124	Automotive Body Structures	3
BAPEN2125	Power Electronics	3
BAPEN2126	Electri Machinery and Drives	3
BAPEN2127	Embedded Control Systems	3
BAPEN2128	Professional Ethics	3
		60
	YEAR THREE	
BAPEN3110	Intermediate Dynamics	3
BAPEN3211	Battery Systems and Control	3
BAPEN3213	Control of Advanced Powertrain Systems	3
BAPEN3112	Control Systems Analysis and Design	3
BAPEN3212	Automatic Control	3
BAPEN3113	Digital Control System	3
BAPEN3114	Linear Systems Theory	3
BAPEN3115	Linear Feedback Control System	3
BAPEN3116	Mobile Robotics	3
BAPEN3117	Self Driving Cars	3
BAPEN3118	Intermediate Dynamics and Vibrations	3
BAPEN3119	Mechanical Vibrations	3
BAPEN3120	Hydrology and hydraulics	3
BAPEN3121	Industrial Training III	3
BAPEN3122	Construction Machinery	3
BAPEN3123	Refrigeration and air conditioning	3
BAPEN3124	Automobile design	3
BAPEN3125	Refrigeration and air conditioning	3
BAPEN3126	Pneumatic Power Systems	3
BAPEN3110	Professional Practice	3
		60
	YEAR FOUR	
BAPEN4114	Tractor Design IV	3

BAPEN4115	Automotive Exploitation & Repair	3
BAPEN4116	Hoisting Handling Equipment	3
BAPEN4117	Instrumentation and Control	3
BAPEN4118	Project Management	3
BAPEN4119	Automobile Theory	3
BAPEN4120	Transport Management \$ Logistics	3
BAPEN3121	Automotive Vehicle Safety	3
BAPEN4122	Automotive Performance	3
BAPEN4123	Heating \$ Air Condition	3
BAPEN4125	Internship	10
BAPEN4126	Dissertation	20
		60