

**BEngTech: PHYSICAL METALLURGY (EXTENDED) (B6PX0Q)****NQF7****1. First year**

<b>First and Second semester</b>	
CPSAED1	Computer Applications (Year Module)
ECMSED1	Chemistry X1 (Theory) (Year Module)
ECMSED2	Chemistry X1 (Practical) (Year Module)
EDRED01	Engineering Drawing 1 (Year Module)
FRRED01	Fundamental Research Practice (Year Module)
MATHED1	Mathematics 1A
PHADPX1	Engineering Physics X 1A (Practical) (Year Module)
PHADTX2	Engineering Physics X 1A (Theory) (Year Module)
WPPED01	Workplace Preparation (Year Module)

**2. Second year**

<b>First semester</b>		<b>Second semester</b>	
AFINSA1	African Insights		
CETMA1	Engineering Chemistry (Metallurgy) 1A	CETM1B1	Engineering Chemistry (Metallurgy) 1B
EDRM1A1	Engineering Drawing 1A	METMTB1	Fundamentals of Metallurgy
CPSELA1	Computer Skills 1A	MPRMTB1	Metallurgy Engineering Practice 1B
ECS1AA1	Engineering Communication skills 1A	ECS1BB1	Engineering Communication Skills 1B
MATE1A1	Engineering Mathematics 1A	MATE1B1	Engineering Mathematics 1B
PHYE1A1	Engineering Physics	PHYE1B1	Engineering Physics 1B

**3. Third year**

First semester		Second semester	
HMTMA2	Heat and Mass Transfer 2A	MTTMTB2	Material Testing 2B
MTTMTA2	Material Testing 2A	MMEMTB2	Mechanical Metallurgy 2b
MMEMTA2	Mechanical Metallurgy 2A	MTDMTB2	Metallurgical Thermodynamics 2B
PMTMTA2	Physical Metallurgy 2A	PMTMTb2	Physical Metallurgy 2B
ALLMTA2	Structure And Properties of Alloy 2A	QUAMTB2	Quality Techniques 2B

**4. Fourth year**

First semester		Second semester	
CORMTA3	Corrosion Technology 3A	AMAMTB3	Advanced Engineering Materials 3B
FOUMTA3	Foundry Technology 3A	CDSMTB3	Casting Design And Simulation 3B
MDEMTA3	Mechanical Deformation Technology 3A	PEMMTB3	Metallurgical Project 3B
PISMTA3	Production of Iron And Steel 3A	PMCMTB3	Powder Metallurgy And Ceramic Material 3B
PRMMTA3	Project Methodology 3A	PMEMTB3	Principles Of Management & Economics 3B
		REFMTB3	Refractory Technology 3B
		WLDMTB3	Welding Technology 3B