

Suggested Study Path for BENGEGU3 NRE 2023 Cohort – Advanced Standing I

Yr	Sem	Major Requirements						University Requirements [^]		CUs
1 (23/ 24)	A	MNE2112 Thermodynamics (3)	MNE2109 Engineering Mechanics (3)	PHY1101 Introductory Classical Mechanics (3)	MNE2066 Engineers in Society (3)	MA1200 Calculus and Basic Linear Algebra I (3)/ MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		18
	B	MNE2110 Engineering Materials (3)	MNE2029 Electrical & Electronic Principles I (3)	MNE2036 Engineering Computing (3)	PHY3210 Modern Physics for Nuclear Technology (3)	PHY1202 General Physics II (3)		English (3)		18
	S						MNE2020 Engineering Workshop Practice (0)	Reserved for missed courses		
2 (24/ 25)	A	MNE3118 Mechanics of Materials (3)	MNE3107 Principles of Nuclear Engineering (3)	MNE3111 Introduction to Nuclear Power Plant (3)	PHY3275 Radiation Protection and Dosimetry (3)		Major Elective 1 (3)		GE 1 (3)	18
	B	MNE3122 Fluid Mechanics (3)	MNE3049 Control Principles (3)		PHY3230 Nuclear Radiation and Measurements (3)	MNE3119 Manufacturing Technology (3)		GE1501 Chinese Civilisation (3)		15
	S	Reserved for IAS or taking some Elective courses available /						Reserved any missed courses		
3 (25/ 26)	A	MNE4118 Project (3)		MNE4109 Reliability Engineering and Risk Analysis (3)		Major Elective 2 (3)	Major Elective 3 (3)	GE 2 (3)		15
	B	MNE4118 Project (3)	MNE4105 Nuclear Reactor Safety (3)	MNE3121 Heat Transfer (3) (MNE2112 & MNE3122)	JC4231 Nuclear Reactor Physics (3)	MNE4112 Nuclear Materials (3)				15
	S							Reserved for missed courses		
() indicates number of credits								Total credits (minimum): 99		

[^] Students should complete PHY1101 to fulfill the pre-requisite requirement of PHY3210

* MNE2020 should be taken in Year 1 during Semester A, Semester B, or Summer term depending on the allocation and availability of workshop training places.

*MA2177 Engineering Mathematics and Statistics (3 CUs) and MNE2116 Engineering Graphics (0 CU) (Totally 3 credit units of core course) are waived for students admitted with Advanced Standing I.

Students are advised to consult their Academic Advisor in planning their own study paths. Please note that study path planning is both the privilege and responsibility of each student, so do it with care and diligence. Please refer to Student Handbook and revision/ update announcements by the Department for further details.