

**DEGREE IN BACHELOR OF ENGINEERING (ELECTRICAL & ELECTRONIC ENGINEERING) PROGRAMME
C N YANG SCHOLARS (AY2020 COHORT)**

AU REQUIREMENT TABLE					
STUDY YEAR	MAJOR REQUIREMENTS		GENERAL EDUCATION REQUIREMENTS (GER)		TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (P)	GER-CORE (GC)	UNRESTRICTED ELECTIVES (UE)	
1	40		4		44
2	33		9		42
3	19	11	4	3	37
4	8	8		3	19
TOTAL	100	19	17	6	142

CURRICULUM STRUCTURE

COURSES	TYPE	AU	PREREQ COREQ^	COURSES	TYPE	AU	PREREQ COREQ^
YEAR 1 SEMESTER 1				YEAR 3 SEMESTER 1			
CY1001	INTRODUCTORY BIOLOGY	C	3	EE2008	DATA STRUCTURES & ALGORITHMS	C	4
CY1101	PRINCIPLES OF MODERN CHEMISTRY	C	3	EE3080	DESIGN & INNOVATION PROJECT	C	2
CY1308	PHYSICS	C	3	EE3XXX	PRESCRIBED ELECTIVE 1	P	3
CY1500	INT. RESEARCH METHODOLOGY	C	3	EE3XXX	PRESCRIBED ELECTIVE 2	P	3
CY1601	MATHEMATICS I	C	4	MLO003	KICKSTART YOUR CAREER SUCCESS	GC	1
EE1005	FROM COMPUTATIONAL THINKING TO PROGRAMMING	C	3	CY0006	ENTERPRISE, INNOVATION & LEADERSHIP	GC	3
GC0001	SUSTAINABILITY: SEEING THRU THE HAZE	GC	1	TOTAL		16	
TOTAL		20		YEAR 3 SEMESTER 2			
YEAR 1 SEMESTER 2				EE2007	ENGINEERING MATHEMATICS II	C	4
CY1007	LIVING WITH CLIMATE CHANGE	C	3	EE3001	ENGINEERING ELECTROMAGNETICS	C	4
CY1307	RELATIVITY & QUANTUM PHYSICS	C	3	EE4XXX	DESIGN ELECTIVE 1	P	2
CY1400	CNYSP UG RESEARCH EXPERIENCE	C	3	EE4XXX	TECHNICAL ELECTIVE 1	P	3
CY1602	MATHEMATICS II	C	4	UNRESTRICTED ELECTIVE	UE	3	
EE1071	EEE LABORATORY 1	C	1	TOTAL		16	
ENGINEERING FUNDAMENTAL 2	C	3		YEAR 3 SPECIAL TERM			
EG0001	ENGINEERS & SOCIETY	GC	3	EE3276	PROFESSIONAL ATTACHMENT	C	5
TOTAL		20		YEAR 4 SEMESTER 1			
YEAR 1 SPECIAL TERM				EE4081	CNYSP OVERSEAS FINAL YEAR PROJECT	C	8
CY2003	RESEARCH ATTACHMENT 3 (MAKING & TINKERING) - OVERSEAS LEARNING TRIP	C	4	YEAR 4 SEMESTER 2			
YEAR 2 SEMESTER 1				EE4XXX	DESIGN ELECTIVE 2	P	2
CY2001	RESEARCH ATTACHMENT 1	C	4	EE4XXX	TECHNICAL ELECTIVE 2	P	3
EE2001	CIRCUIT ANALYSIS	C	4	EE4XXX	TECHNICAL ELECTIVE 3	P	3
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	4	UNRESTRICTED ELECTIVE	UE	3	
EE2004	DIGITAL ELECTRONICS	C	4	TOTAL		11	
EE0005	INTRO TO DATA SCIENCE & ARTIFICIAL INTELLIGENCE	GC	3	YEAR 4 SEMESTER 1			
CY0002	ETHICS	GC	3	EE4081	CNYSP OVERSEAS FINAL YEAR PROJECT	C	8
TOTAL		22		YEAR 4 SEMESTER 2			
YEAR 2 SEMESTER 2				EE4XXX	DESIGN ELECTIVE 2	P	2
EE2002	ANALOG ELECTRONICS	C	4	EE4XXX	TECHNICAL ELECTIVE 2	P	3
EE2005	ELECTRICAL DEVICES & MACHINES	C	3	EE4XXX	TECHNICAL ELECTIVE 3	P	3
EE2006	ENGINEERING MATHEMATICS I	C	4	UNRESTRICTED ELECTIVE	UE	3	
EE2010	SIGNALS AND SYSTEMS	C	4	TOTAL		11	
EE2073	INTRO. TO EEE DESIGN & PROJECT	C	2	YEAR 4 SEMESTER 1			
CY0001	WRITING AND REASONING	GC	3	EE4081	CNYSP OVERSEAS FINAL YEAR PROJECT	C	8
TOTAL		20		YEAR 4 SEMESTER 2			

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