

C N YANG SCHOLARS' PROGRAMME (EEE)
(ADMITTED TO ENGINEERING 1 FROM AY2011-2012 WITH INDUSTRIAL ORIENTATION)

AU REQUIREMENT TABLE

COURSE TYPE		AU REQUIRED
CORE COURSES		87
MAJOR PRESCRIBED ELECTIVES		25
GER CORE		12
GER-PE REQUIREMENT	GER-PE - AHSS	3
	GER-PE - BM	3
	GER-PE - STS	3
	GER-PE - LS	3
	Any Category (AHSS, BM, STS or LS)	3
UNRESTRICTED ELECTIVES		4
TOTAL		143

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NO OF HOURS PER WEEK				AU	PRE-REQUISITE/ REPLACEMENT	
		LEC	TUT	LAB	TOTAL			
YEAR 1 SEMESTER 1								
CY1001	INTRODUCTORY BIOLOGY	C	2	2	0	4	4	
CY1101	PRINCIPLES OF MODERN CHEMISTRY	C	3	1	0	4	4	
CY1201	CALCULUS OF ONE VARIABLE	C	3	1	0.5	4.5	4	REPLACE FE1006
CY1301	MECHANICS	C	3	1	0	4	4	REPLACE FE1011
	LABORATORY *	PE	0	0	6	6	3	REPLACE FE1073
HW0110	EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
TOTAL			12	6	6.5	24.5	21	
* TO CHOOSE ONE FROM THE FOLLOWING TWO LAB								
CY1102	FUNDAMENTALS TECHNIQUES OF EXPERIMENTAL CHEMISTRY AND BIOLOGICAL CHEMISTRY	PE	0	0	6	6	3	
CY1304	PHYSICS LABORATORY I	PE	0	0	6	6	3	
YEAR 1 SEMESTER 2								
CY1202	CALCULUS OF SEVERAL VARIABLES	C	3	1	0.5	4.5	4	REPLACE EE1007
CY1302	ELECTROMAGNETISM AND RELATIVITY	C	3	1	0	4	4	REPLACE EE1002
EE1003	INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
FE1008	COMPUTING	C	2	1	1	4	3	
CY1400	CN YANG SCHOLAR PROGRAMME UNDERGRADUATE RESEARCH EXPERIENCE	PE	0	0	9	9	3	
	HUMANITIES & SOCIAL SCIENCES [AHSS]	GE	2	1	0	3	3	
TOTAL			12	5	10.5	27.5	20	
YEAR 2 SEMESTER 1								
EE2001	CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004	DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006	ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2071	LABORATORY 2A	C	0	0	3	3	1	
CY1203	LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS	C	2	2	0.5	4.5	4	REPLACE EE2007
CY1303	WAVES AND QUANTUM MECHANICS	UE	3	1	0	4	4	
TOTAL			14	6	3.5	23.5	21	

COURSE CODE AND TITLE	TYPE	NO OF HOURS PER WEEK				AU	PRE-REQUISITE/ REPLACEMENT	
		LEC	TUT	LAB	TOTAL			
YEAR 2 SEMESTER 2								
EE2002	ANALOG ELECTRONICS	C	3	1	0	4	4	
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
EE2072	LABORATORY 2B	C	0	0	3	3	1	
EE2073	INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2	
TOTAL			11.5	4.5	6	22	18	
YEAR 3 SEMESTER 1								
EE3001	ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	# EE2007
EE3002	MICROPROCESSORS	C	3	1	0	4	4	#
EE3080	DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
EE3XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
HW0210	TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
TOTAL			9.5	4	6	19	15	
YEAR 3 SEMESTER 2								
EE3XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
EE0001	IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
GER ELECTIVE		GE	2	1	0	3	3	
LIBERAL STUDIES		GE	2	1	0	3	3	
SCIENCE, TECHNOLOGY & SOCIETY		GE	2	1	0	3	3	
TOTAL			10	5	0	15	15	
YEAR 3 SPECIAL SEMESTER								
EE3076	INDUSTRIAL ORIENTATION	C	-	-	-	-	4	YEAR 3 STANDING
YEAR 4 SEMESTER 1								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX	DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
EE4XXX	TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
BUSINESS & MANAGEMENT (HRM)		GE	2	1	0	3	3	
TOTAL			7	3	15	25	15	
YEAR 4 SEMESTER 2								
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 3 STANDING
EE4XXX	DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX	TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3	
HW0310	PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
TOTAL			6	3	15	24	14	
GRAND TOTAL (YEAR 1 TO 4)							143	

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CURRICULUM STRUCTURE

COURSE CODE AND TITLE		TYPE	NO OF HOURS PER WEEK				AU	PRE-REQUISITE/ REPLACEMENT
			LEC	TUT	LAB	TOTAL		
YEAR 1 SEMESTER 1								
CY1001	INTRODUCTORY BIOLOGY	C	2	2	0	4	4	
CY1101	PRINCIPLES OF MODERN CHEMISTRY	C	3	1	0	4	4	
CY1201	CALCULUS OF ONE VARIABLE	C	3	1	0.5	4.5	4	REPLACE FE1006
CY1301	MECHANICS	C	3	1	0	4	4	REPLACE FE1011
LABORATORY *		PE	0	0	6	6	3	REPLACE FE1073
HW0110	EFFECTIVE COMMUNICATION	GC	1	1	0	2	2	
TOTAL			12	6	6.5	24.5	21	
* TO CHOOSE ONE FROM THE FOLLOWING TWO LAB								
CY1102	FUNDAMENTALS TECHNIQUES OF EXPERIMENTAL CHEMISTRY AND BIOLOGICAL CHEMISTRY	PE	0	0	6	6	3	
CY1304	PHYSICS LABORATORY I	PE	0	0	6	6	3	
YEAR 1 SEMESTER 2								
EE1003	INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3	
FE1008	COMPUTING	C	2	1	1	4	3	
CY1202	CALCULUS OF SEVERAL VARIABLES	C	3	1	0.5	4.5	4	REPLACE EE1007
CY1302	ELECTROMAGNETISM AND RELATIVITY	C	3	1	0	4	4	REPLACE EE1002
CY1400	CN YANG SCHOLAR PROGRAMME UNDERGRADUATE RESEARCH EXPERIENCE	PE	0	0	9	9	3	
HUMANITIES & SOCIAL SCIENCES		GE	2	1	0	3	3	
TOTAL			12	5	10.5	27.5	20	
YEAR 2 SEMESTER 1								
EE2001	CIRCUIT ANALYSIS	C	3	1	0	4	4	
EE2004	DIGITAL ELECTRONICS	C	3	1	0	4	4	
EE2006	ENGINEERING MATHEMATICS I	C	3	1	0	4	4	FE1007
EE2071	LABORATORY 2A	C	0	0	3	3	1	
CY1203	LINEAR ALGEBRA & DIFFERENTIAL EQUATIONS	C	2	2	0.5	4.5	4	REPLACE EE2007
CY1303	WAVES AND QUANTUM MECHANICS	UE	3	1	0	4	4	
TOTAL			14	6	3.5	23.5	21	
YEAR 2 SEMESTER 2								
EE2002	ANALOG ELECTRONICS	C	3	1	0	4	4	
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	EE1002
EE2008	DATA STRUCTURES & ALGORITHMS	C	2	1	0	3	3	
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	FE1006 & FE1007
EE2072	LABORATORY 2B	C	0	0	3	3	1	
EE2073	INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2	
HW0210	TECHNICAL COMMUNICATION	GC	1	1	0	2	2	
TOTAL			12.5	5.5	6	24	20	

COURSE CODE AND TITLE	TYPE	NO OF HOURS PER WEEK				AU	PRE-REQUISITE/ REPLACEMENT
		LEC	TUT	LAB	TOTAL		
YEAR 3 SEMESTER 1							
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	EE2007 ; #
EE3002 MICROPROCESSORS	C	3	1	0	4	4	#
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2	YEAR 3 STANDING
EE3XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	#
EE3XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	#
EE0001 IMPACT OF ELECTROMAGNETIC RADIATION ON HUMANS	GC	2	1	0	3	3	
TOTAL		12.5	5	6	23	19	
YEAR 3 SEMESTER 2							
EE3179 INDUSTRIAL ATTACHMENT	C	-	-	-	-	8	YEAR 3 STANDING
YEAR 4 SEMESTER 1							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX DESIGN ELECTIVE 1	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 1	PE	2	1	0	3	3	
EE4XXX TECHNICAL ELECTIVE 2	PE	2	1	0	3	3	
HW0310 PROFESSIONAL COMMUNICATION	GC	1	1	0	2	2	
BUSINESS & MANAGEMENT (HRM)	GE	2	1	0	3	3	
LIBERAL STUDIES	GE	2	1	0	3	3	
TOTAL		10	5	15	30	20	
YEAR 4 SEMESTER 2							
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4	YEAR 4 STANDING
EE4XXX DESIGN ELECTIVE 2	PE	1	0	3	4	2	
EE4XXX TECHNICAL ELECTIVE 3	PE	2	1	0	3	3	
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3	
GER ELECTIVE	GE	2	1	0	3	3	
SCIENCE, TECHNOLOGY & SOCIETY	GE	2	1	0	3	3	
TOTAL		9	4	15	28	18	
GRAND TOTAL (Year 1 to 4)							143