

DPC Undergraduate Programme Study Plan from 2019/2020 (for E1a)

Year 1	Sem 1	Sem 2	Total Credit: 35			
	APAC1001 College Physics	EELC1008 Grammar and Writing Improvement I	EELC1011 University English I	CISC1000 Information Technology Fundamentals and Practices	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education
	APAC1003 Introduction to College Chemistry	APAC1000 Advanced Mathematics I	APAC1002 Electromagnetism and Physical Optics	CISC1001 Programming Science	EELC1012 University English II	CPED1001 Physical Education
	APAC2002 Modern Physics	APAC2000 Advanced Mathematics II	APAC2001 Analytical and Environmental Chemistry	CHLL1000 or PORT1000	GESB1000 Ethics, Values, Law and Society	CPED2000 Communication Skills & Leadership
	APAC2003 Inorganic Chemistry	APAC2004 Quantum Physics	EELC1013 University English III	GEGA1000 Macao and Chinese Civilization	Free Elective	
	APAC3000 Materials Physics and Chemistry	APAC3001 Solid State Physics	APAC3002 Thermodynamics and Statistical Physics	General Education	Free Elective	
	APAC3005 Physical Chemistry	APAC3004 Optoelectronics	APAC3006 Semiconductor Physics	APAC3003 Materials Characterization	General Education	
	APAC4000 Research Project	General Education	Free Elective	Required Elective	Required Elective	
	APAC4000 Research Project	Required Elective	Required Elective			
Year 2	Sem 1	Sem 2	Total Credit: 31			
	APAC1001 College Physics	EELC1008 Grammar and Writing Improvement I	EELC1011 University English I	CISC1000 Information Technology Fundamentals and Practices	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education
	APAC1003 Introduction to College Chemistry	APAC1000 Advanced Mathematics I	APAC1002 Electromagnetism and Physical Optics	CISC1001 Programming Science	EELC1012 University English II	CPED1001 Physical Education
	APAC2002 Modern Physics	APAC2000 Advanced Mathematics II	APAC2001 Analytical and Environmental Chemistry	CHLL1000 or PORT1000	GESB1000 Ethics, Values, Law and Society	CPED2000 Communication Skills & Leadership
	APAC2003 Inorganic Chemistry	APAC2004 Quantum Physics	EELC1013 University English III	GEGA1000 Macao and Chinese Civilization	Free Elective	
	APAC3000 Materials Physics and Chemistry	APAC3001 Solid State Physics	APAC3002 Thermodynamics and Statistical Physics	General Education	Free Elective	
	APAC3005 Physical Chemistry	APAC3004 Optoelectronics	APAC3006 Semiconductor Physics	APAC3003 Materials Characterization	General Education	
	APAC4000 Research Project	General Education	Free Elective	Required Elective	Required Elective	
	APAC4000 Research Project	Required Elective	Required Elective			
Year 3	Sem 1	Sem 2	Total Credit: 30			
	APAC1001 College Physics	EELC1008 Grammar and Writing Improvement I	EELC1011 University English I	CISC1000 Information Technology Fundamentals and Practices	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education
	APAC1003 Introduction to College Chemistry	APAC1000 Advanced Mathematics I	APAC1002 Electromagnetism and Physical Optics	CISC1001 Programming Science	EELC1012 University English II	CPED1001 Physical Education
	APAC2002 Modern Physics	APAC2000 Advanced Mathematics II	APAC2001 Analytical and Environmental Chemistry	CHLL1000 or PORT1000	GESB1000 Ethics, Values, Law and Society	CPED2000 Communication Skills & Leadership
	APAC2003 Inorganic Chemistry	APAC2004 Quantum Physics	EELC1013 University English III	GEGA1000 Macao and Chinese Civilization	Free Elective	
	APAC3000 Materials Physics and Chemistry	APAC3001 Solid State Physics	APAC3002 Thermodynamics and Statistical Physics	General Education	Free Elective	
	APAC3005 Physical Chemistry	APAC3004 Optoelectronics	APAC3006 Semiconductor Physics	APAC3003 Materials Characterization	General Education	
	APAC4000 Research Project	General Education	Free Elective	Required Elective	Required Elective	
	APAC4000 Research Project	Required Elective	Required Elective			
Year 4	Sem 1	Sem 2	Total Credit: 24			
	APAC1001 College Physics	EELC1008 Grammar and Writing Improvement I	EELC1011 University English I	CISC1000 Information Technology Fundamentals and Practices	GEST1004 Quantitative Reasoning for S&T	CPED1001 Physical Education
	APAC1003 Introduction to College Chemistry	APAC1000 Advanced Mathematics I	APAC1002 Electromagnetism and Physical Optics	CISC1001 Programming Science	EELC1012 University English II	CPED1001 Physical Education
	APAC2002 Modern Physics	APAC2000 Advanced Mathematics II	APAC2001 Analytical and Environmental Chemistry	CHLL1000 or PORT1000	GESB1000 Ethics, Values, Law and Society	CPED2000 Communication Skills & Leadership
	APAC2003 Inorganic Chemistry	APAC2004 Quantum Physics	EELC1013 University English III	GEGA1000 Macao and Chinese Civilization	Free Elective	
	APAC3000 Materials Physics and Chemistry	APAC3001 Solid State Physics	APAC3002 Thermodynamics and Statistical Physics	General Education	Free Elective	
	APAC3005 Physical Chemistry	APAC3004 Optoelectronics	APAC3006 Semiconductor Physics	APAC3003 Materials Characterization	General Education	
	APAC4000 Research Project	General Education	Free Elective	Required Elective	Required Elective	
	APAC4000 Research Project	Required Elective	Required Elective			

Required Elective Courses:

- CISC1006 Probability and Statistics
- APAC3007 Low-dimensional Physics
- APAC3008 Nanochemistry
- APAC3009 Organic and Polymer Chemistry
- APAC3010 Thin Film Physics
- APAC4001 Electrochemistry
- APAC4002 Electrostatics
- APAC4003 Magnetic Properties of Materials
- APAC4004 Mathematical Methods in Physics (*Pre-requisite: GEST1004 Quantitative Reasoning for S&T*)
- APAC4005 Micro-/Nano-System
- APAC4007 Semiconductor Materials and Devices (*Pre-requisite: APAC3006 Semiconductor Physics or APAC3001 Solid State Physics*)
- APAC4008 Supermolecular Chemistry
- APAC4009 Theory and Modeling of Materials Properties
- APAC4010 Topics in Emerging Materials

Compulsory Major

Required Elective

Free Elective

Language & Skill

General Education

Community & Peer Education