

COURSES AND ENTRY REQUIREMENTS – SPM

To be eligible for admission to the various courses, all applicants must have the following grades in subjects taken at not more than two sittings of the SPM examination:

B) SCIENCE & TECHNOLOGY COURSES NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aeronautical & Aerospace Technology ^②	C51	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
Aerospace Systems & Management ^②	C52	3	b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6
Biologics & Process Technology <u>Specialisations:</u> • Biopharmaceutical Technology • Process Technology	C49	3		
Business Enterprise IT <u>Specialisations:</u> • Enterprise Process & Applications • Enterprise Database & Management	C68	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any 3 other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Business Informatics <u>Specialisations:</u> • Business • Information Technology	C78	3	Note: In order to be eligible for selection applicants must have sat for one of the following subjects, that is, for the computation of the ELR2B2 aggregate would include one of these subjects: Chemistry Physics	
Biomedical Engineering <u>Specialisations:</u> • Biomedical Device Design • Biomedical Processes & Quality System	C71	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

- ① Applicants with colour appreciation deficiency should not apply for these courses.
- ② Applicants must ensure that they do not suffer from either colour appreciation deficiency or hearing deficiency.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Chemical & Green Technology <u>Specialisations:</u> <ul style="list-style-type: none"> • Environment & Water Technology • Clean Energy Technology • Petrochemical Technology 	C55	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Chemical & Pharmaceutical Technology <u>Specialisations:</u> <ul style="list-style-type: none"> • Petrochemical Technology • Pharmaceutical Technology 	C73	3		
Digital Entertainment Technology (Games) <u>Specialisations:</u> <ul style="list-style-type: none"> • Games Programming • Console Programming 	C70	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any 3 other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Digital Visual Effects <u>Specialisations:</u> <ul style="list-style-type: none"> • Visual effects for games and real time application • Visual effects for animation and visualization 	C57	3	Note: In order to be eligible for selection, applicants must have sat for one of the following subjects, that is, for the computation of the ELR2B2 aggregate would include one of these subjects: Chemistry Physics	
Dental Hygiene & Therapy #	C72	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects: Biology Chemistry General Science Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Nursing	C97	3		

Additional requirements for Health Science Courses:

Due to the special requirements of the healthcare professions, all applicants have to pass a medical examination and be free from physical handicap to ensure suitability. Whilst not comprehensive, the following conditions will lead to non-acceptance into the course:

- active tuberculosis
- HBsAg positive
- legal blindness
- uncontrolled diabetes
- uncontrolled epilepsy
- uncontrolled asthma
- uncontrolled hypertension
- profound deafness
- psychiatric condition
- physical dependence upon mobility equipment
- acquired immune deficiency syndrome
- mobility restricted (hindering performance)

Candidates will be required to take a manual dexterity test by the relevant Admission Selection Committee to determine their suitability to the course.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Electronics, Computer & Communications Engineering ① Specialisations: <ul style="list-style-type: none"> • Aerospace Electronics • Automation Design • Embedded Systems Design • Wafer Fabrication Technology • Wireless Communications • Telematics System 	C89	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Electrical Engineering ①	C48	3		

Note:

- ① Applicants with colour appreciation deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Engineering Informatics Specialisations: <ul style="list-style-type: none"> • Engineering Software Development • Networks & IT Services • Integrated Logistics 	C80	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any 3 other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Financial Informatics Specialisations: <ul style="list-style-type: none"> • Banking & Financial Services • Banking & Financial Applications 	C58	3	Note: In order to be eligible for selection, applicants must have sat for one of the following subjects, that is, for the computation of the ELR2B2 aggregate would include one of these subjects: Chemistry Physics	
Food Science & Nutrition	C69	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Biology Chemistry Physics	

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Information Security Specialisations: <ul style="list-style-type: none"> • InfoSecurity Technology • InfoSecurity Management 	C54	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any 3 other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Information Technology Specialisations: <ul style="list-style-type: none"> • Digital Entertainment • Internet & Mobile Computing • IT in Finance & Investment • IT in Life Sciences • Information Security 	C85	3	Note: In order to be eligible for selection, applicants must have sat for one of the following subjects, that is, for the computation of the ELR2B2 aggregate would include one of these subjects: Chemistry Physics	
Manufacturing Engineering Specialisations: <ul style="list-style-type: none"> • Aerospace Manufacturing • Automation Systems Design • Manufacturing Software • Product Engineering 	C88	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Mechatronics Engineering ① Specialisations: <ul style="list-style-type: none"> • Automation & System Integration • Biomedical Engineering • Wafer Fabrication Technology 	C87	3	Biology Chemistry Physics	

Note:

① Applicants with colour appreciation deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Molecular Biotechnology Specialisations: <ul style="list-style-type: none"> • Biomedical Sciences • Bio-Pharmaceutical • Research & Development (Microbiology & Immunology/ Molecular Biology & Forensic) 	C74	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Multimedia & Infocomm Technology Specialisations: <ul style="list-style-type: none"> • Communications and Networking • Interactive Media • IT Service Management • Infocomm Solutions 	C75	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects: Biology Chemistry Physics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Nanotechnology & Materials Science Specialisations: <ul style="list-style-type: none"> • Advanced Electronic Materials & Semiconductor Technology • Functional & Structured Materials 	C50	3		

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Pharmaceutical Sciences Specialisations : <ul style="list-style-type: none"> • Pharmaceutical Practice • Clinical Trials 	C65	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Telematics & Media Technology ^① Specialisations: <ul style="list-style-type: none"> • System Design • Product Design 	C53	3	Biology Chemistry Physics	

Note:

① Applicants with colour appreciation deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aerospace Electronics ^{BCE} <u>Option:</u> Minor in Business Management	N75	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics	A ⁺ to C/ 1 to 6
Aerospace Technology ^{BCE} <u>Option:</u> Minor in Business Management	N65	3		
Audio-visual Technology ^{BDE} <u>Option:</u> Minor in Business Management	N76	3		
Biomedical Engineering ^{BD} <u>Option:</u> Minor in Business Management	N60	3	Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

- B Applicants with severe vision deficiency should not apply for these courses.
- C Applicants with colour appreciation deficiency are not eligible to apply for **N64 (Diploma in Network Systems & Security)**, **N65 (Diploma in Aerospace Technology)**, **N75 (Diploma in Aerospace Electronics)** and **N82 (Diploma in Film, Sound & Video)**.
- D Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.
- E Applicants with hearing deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Biomedical Science / Biomedical Laboratory Technology ^A	N59	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following relevant Science subjects:	A ⁺ to C/ 1 to 6
			Additional Combined Science	
			Additional Science	
			Biology	
			Chemistry	
			Combined Science	
			Engineering Science	
			Integrated Science	
			Physical Science	
			Physics	
			Science (Chemistry, Biology)	
			Science (Physics, Biology)	
			Science (Physics, Chemistry)	
			Science (Physics, Chemistry, Biology)	

Note:

A The first year of Biomedical Science and Biomedical Laboratory Technology is common to all students. Students interested in the Diploma in Biomedical Laboratory Technology must not suffer from colour appreciation deficiency. At the end of the first year, students interested in the Diploma in Biomedical Laboratory Technology will attend an interview to be conducted by the Department of Laboratory Medicine, National University Hospital. Students not selected for the Diploma in Biomedical Laboratory Technology course will remain in the Biomedical Science course.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Business Information Technology	N61	3	a) English as 1 st Language b) Elementary or Additional Mathematics c) Any 2 other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note : To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Food & Nutrition General Science Human & Social Biology Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Chemical & Biomolecular Engineering <u>Options:</u> • Pharma & Biopharmaceutical	N56	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Clean Energy Management ^{B D}	N84	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Electrical Engineering ^{B D}	N43	3	c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6
<u>Options:</u> • Minor in Business Management • Electronics • Engineering Management • Power Engineering • Solar Technology				

Note:

- B Applicants with severe vision deficiency should not apply for these courses.
D Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.
E Applicants with hearing deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Electronic & Computer Engineering ^{B D} <u>Options</u> <ul style="list-style-type: none"> • Minor in Business Management • Aerospace Electronics • Computer and Communication Systems • Microelectronics 	N44	3	a) Bahasa Ingeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: <ul style="list-style-type: none"> Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology) 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

B Applicants with severe vision deficiency should not apply for these courses.

D Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Engineering with Business Management Programme ^{BDF}	N71	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Environmental & Water Technology ^{BDE}	N74	3	Note : To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Food & Nutrition General Science Human & Social Biology Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

- B Applicants with severe vision deficiency should not apply for these courses.
- D Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.
- E Applicants with hearing deficiency should not apply for these courses.
- F Students applying for the **N71 (Engineering with Business Management Programme)** will spend the first semester doing the common modules as the four major engineering courses (i.e. Electronic & Computer Engineering, Electrical Engineering, Mechanical Engineering and Mechatronic Engineering). They will have one whole semester to discover their interest and affirm their decision. At the end of the first semester, they can apply to join one of the following nine engineering diploma courses with a minor in business management – Aerospace Electronics, Aerospace Technology, Audio-visual Technology, Biomedical Engineering, Electrical Engineering, Electronic & Computer Engineering, Marine & Offshore Technology, Mechatronic Engineering or Mechanical Engineering.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Financial Informatics ^B	N81	3	a) English as 1 st Language b) Elementary or Additional Mathematics c) Any 2 other subjects	A ⁺ to D/ 1 to 7 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note : To be eligible for selection, you must also have sat for at least one of the following subjects : Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Food & Nutrition General Science Human & Social Biology Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

B Applicants with severe vision deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Health Sciences (Nursing) ^G	N69	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following Science subjects:	A ⁺ to C/ 1 to 6
			Biology	
			Chemistry	
			Combined Science	
			Food & Nutrition	
			General Science	
			Human & Social Biology	
			Physical Science	
			Physics	
			Science (Chemistry, Biology)	
			Science (Physics, Biology)	
			Science (Physics, Chemistry)	

Note:

G Applicants for **N69 [(Diploma in Health Sciences (Nursing))]** have to pass a medical examination and be free from physical handicap.

Due to the special requirements of the healthcare professions, all applicants for N69 have to pass a medical examination and be free from physical handicap to ensure suitability. Whilst not comprehensive, the following conditions will lead to non-acceptance into the course:

- active tuberculosis
- HBsAg positive
- legal blindness
- uncontrolled diabetes
- uncontrolled epilepsy
- uncontrolled asthma
- uncontrolled hypertension
- profound deafness
- psychiatric condition
- physical dependence upon mobility equipment
- acquired immune deficiency syndrome
- mobility restricted (hindering performance)

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Horticulture & Landscape Management	N57	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Information Technology ^B Options: <ul style="list-style-type: none"> • Business Management • Infocomm Sales & Marketing • Mobile Business Application • Solutions Architect 	N54	3	a) English as 1 st Language b) Elementary or Additional Mathematics c) Any 2 other subjects Note : To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Food & Nutrition General Science Human & Social Biology Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to D/ 1 to 7 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

B Applicants with severe vision deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Leisure & Business Facilities Management ^{B D E}	N40	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

- B Applicants with severe vision deficiency should not apply for these courses.
- D Applicants with colour appreciation deficiency may apply for and be admitted into courses if they pass an in-house test.
- E Applicants with hearing deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Marine & Offshore Technology ^{B E} <u>Options:</u> <ul style="list-style-type: none"> • Minor in Business Management • Design • Oil & Gas 	N42	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Mechanical Engineering ^{B E} <u>Options:</u> <ul style="list-style-type: none"> • Minor in Business Management • 6-month Internship Programme • Automotive Technology & Motorsport • Biomedical Applications • Design Innovation • Environment & Energy Systems • Precision Engineering 	N41	3	Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Physics (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	
Mechatronic Engineering ^{B D E} <u>Options:</u> <ul style="list-style-type: none"> • Minor in Business Management • 6-month Internship Programme • Aerospace Applications • Automation & Robotics • Micro Electromechanical Systems 	N50	3		

Note:

B Applicants with severe vision deficiency should not apply for these courses.

D Applicants with colour appreciation deficiency may apply for and be admitted into courses if they pass an in-house test.

E Applicants with hearing deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Molecular Biotechnology <u>Options:</u> <ul style="list-style-type: none"> • Biopharmaceutical • Entrepreneurship • Forensic Medicine 	N49	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects : Additional Combined Science Additional Science Biology Chemistry Combined Science Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Multimedia & Animation ^{BDE}	N55	3	a) English as 1 st Language b) Elementary or Additional Mathematics c) Any 2 other subjects Note: To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Design & Technology Engineering Science Food & Nutrition General Science Human & Social Biology Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to D/ 1 to 7 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

B Applicants with severe vision deficiency should not apply for these courses.

D Applicants with colour appreciation deficiency may apply for and be admitted into these courses if they pass an in-house test.

E Applicants with hearing deficiency should not apply for these courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Network Systems & Security ^{B C M}	N64	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Optometry ^B	N83	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following Science subjects: Biology Chemistry Combined Science Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

B Applicants with severe vision deficiency should not apply for these courses.

C Applicants with colour appreciation deficiency are not eligible to apply for **N64 (Diploma in Network Systems & Security)**, **N65 (Diploma in Aerospace Technology)**, **N75 (Diploma in Aerospace Electronics)** and **N82 (Diploma in Film, Sound & Video)**.

M Applicants for N64 (**Diploma in Network Systems & Security**) who have successfully completed the Cisco Certified Network Associate (CCNA) course at the local secondary schools will be granted exemptions for the relevant modules if they pass a practical test on a module that is equivalent to their highest completed CCNA module.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Pharmacy Science	N73	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following relevant Science subjects:	A ⁺ to C/ 1 to 6
			Additional Combined Science	
			Additional Science	
			Biology	
			Chemistry	
			Combined Science	
			Engineering Science	
			Integrated Science	
			Physical Science	
			Physics	
			Science (Chemistry, Biology)	
			Science (Physics, Biology)	
			Science (Physics, Chemistry)	
			Science (Physics, Chemistry, Biology)	

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Real Estate Business	N48	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Sustainable Urban Design & Engineering	N89	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
NGEE ANN POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Veterinary Bioscience	N90	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following relevant Science subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Design & Technology Engineering Science Integrated Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
REPUBLIC POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aerospace Avionics	R20	3	a)	Bahasa Ingggris (1119) A ⁺ to C/ 1 to 6
Aerospace Engineering (Quality Systems)	R40	3	b)	Elementary or Additional Mathematics A ⁺ to C/ 1 to 6
Biomedical Electronics	R15	3	c)	Any one of the following subjects: A ⁺ to C/ 1 to 6
Biomedical Sciences	R14	3		Additional Combined Science
Biotechnology	R16	3		Additional Science
Business Applications Options: <ul style="list-style-type: none"> • Financial and Banking Applications • Healthcare Applications • Hospitality and Retail Systems • Manufacturing and Logistics Systems 	R18	3		Biology Chemistry Combined Science Engineering Science Integrated Science Physics / Physical Science Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)
Business Information Systems Options: <ul style="list-style-type: none"> • Human Resource Information Systems • Finance and Accounting Information Systems • Sales and Marketing Information Systems 	R13	3		
Civil Aviation	R39	3		
Common Engineering Programme ②	R42	3		
Digital Entertainment Electronics	R38	3		
Environmental Science	R29	3		
Health Management and Promotion	R43	3		
Industrial and Operations Management	R11	3		

② The Common Engineering Programme allows a student to take a common course of study in the first year and be streamed into one of the following Engineering diplomas from the second year onwards:

- Aerospace Avionics
- Aerospace Engineering (Quality Systems)
- Biomedical Electronics
- Civil Aviation
- Digital Entertainment Electronics
- Industrial and Operations Management
- Micro and Nanotechnology
- Supply Chain Management

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
REPUBLIC POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Information Technology	R12	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
Options: <ul style="list-style-type: none"> • Networking and Security • IT Security • Enterprise Infrastructure Management 			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
Interactive and Digital Media	R31	3	c) Any one of the following subjects:	A ⁺ to C/ 1 to 6
Options: <ul style="list-style-type: none"> • Digital Audio and Video • Computer Animation • Games Development 			Additional Combined Science	
IT Service Management	R23	3		Additional Science
Materials Science	R17	3		Biology
Micro and Nanotechnology	R30	3		Chemistry
Pharmaceutical Sciences	R22	3		Combined Science
Renewable Energy Engineering	R41	3		Engineering Science
Sports and Exercise Sciences	R26	3		Integrated Science
Supply Chain Management	R21	3		Physics / Physical Science
				Science (Chemistry, Biology)
				Science (Physics, Biology)
				Science (Physics, Chemistry)
				Science (Physics, Chemistry, Biology)

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aeronautical Engineering ^	S88	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Physics d) Any two other subjects Applicants must ensure that they do not suffer from either colour appreciation deficiency or hearing deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Aerospace Electronics	S90	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics Applicants must ensure that they do not suffer from either colour appreciation deficiency or hearing deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Applied Chemistry with Pharmaceutical Science	S64	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Chemistry Applicants must ensure that they do not suffer from colour appreciation deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Bioengineering ^	S58	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics Applicants must ensure that they do not suffer from hearing deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Biomedical Science Note: The 1 st year of the course is common and at the end of Year 1, students opt for one of the following programmes: Specialisations: <ul style="list-style-type: none"> • Cardiac Technology • Medical Technology 	S98	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Biotechnology	S72	3	Applicants must ensure that they do not suffer from colour appreciation deficiency.	
Business Information Technology Specialisations: <ul style="list-style-type: none"> • E-Business Services • Entrepreneurship • New Media Marketing 	S82	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any three other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note: To be eligible for admissions, you must also have sat for at least one of the following subjects: <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Chemical Engineering ^	S70	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects <ul style="list-style-type: none"> • Biology • Chemistry • Physics Applicants must ensure that they do not suffer from colour appreciation deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Civil Engineering with Business ^	S68	3	a) Bahasa Ingggris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) One of the following 3 rd relevant subjects :	A ⁺ to C/ 1 to 6
			• Biology	
			• Chemistry	
			• Physics	

Note:

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Clean Energy	S45	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Common Engineering Programme At the end of the first semester students will opt for one of the following courses: <ul style="list-style-type: none"> • Aeronautical Engineering #^ • Aerospace Electronics # • Bioengineering %^ • Clean Energy # • Computer Engineering ♦ • Electrical & Electronic Engineering @ • Mechanical Engineering %^ • Mechatronics & Robotics #^ 	S40	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology* • Chemistry* • Physics <p>Note: * - <u>At the end of the first semester, those offering these subject as the 3rd relevant subject cannot opt for the Diploma in Aeronautical Engineering (S88). This course also requires that applicants offer an additional 2 other subjects with Grades 1 – 6.</u></p>	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note :

Applicants must ensure that they do not suffer from either colour appreciation deficiency or hearing deficiency.

@ Applicants must ensure that they do not suffer from colour appreciation deficiency.

♦ Applicants who are suffering from impairments must be prepared to appear for interview and to undergo any manual dexterity or aptitude tests.

% Applicants must ensure that they do not suffer from hearing deficiency.

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Computer Engineering Specialisations: <ul style="list-style-type: none"> • Business • Computer Applications • Computer system • Networking • Security 	S53	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Information Technology • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Applicants who are suffering from impairments must be prepared to appear for interview and to undergo any manual dexterity or aptitude tests.	
Digital Media	S57	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note: To be eligible for admissions, you must also have sat for at least one of the following subjects: <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Electrical & Electronic Engineering Specialisations: <ul style="list-style-type: none"> • Aerospace Engineering • Biomedical Engineering • Business • Communication Engineering • Computer Engineering • Control Engineering • Design • Microelectronics • Nano Technology • Power Engineering • Robotics 	S99	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Engineering with Business	S42	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects : <ul style="list-style-type: none"> • Biology • Chemistry • Physics d) Any two other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Environmental Management & Water Technology	S52	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Financial Informatics Specialisations: <ul style="list-style-type: none"> • Accounting • Finance 	S46	3	a) Bahasa Ingggris (1119) b) Elementary or Additional Mathematics c) Any three other subjects Note: To be eligible for admissions, you must also have sat for at least one of the following subjects: <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Food Science & Technology	S47	3	a) Bahasa Ingggris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics Applicants must ensure that they do not suffer from colour appreciation deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Hotel & Leisure Facilities Management Specialisations: <ul style="list-style-type: none"> • Hotel & Leisure Management • Property Facilities Management 	S95	3	a) Bahasa Ingggris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects : <ul style="list-style-type: none"> • Art • Art Graphic • Biology • Chemistry • Engineering Drawing • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Infocomm Security Management	S54	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
<p><u>Note:</u> To be eligible for admissions, you must also have sat for at least one of the following subjects:</p> <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 				

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
<p>Information Communication Technology</p> <p><u>Note:</u> The 1st year of the course is common and at the end of Year 1, students opt for one of the following programmes:</p> <p>Specialisations:</p> <ul style="list-style-type: none"> • Broadband & Security Services • Web Technology & Services 	S85	3	<p>a) Bahasa Inggeris (1119)</p> <p>b) Elementary or Additional Mathematics</p> <p>c) One of the following 3rd relevant subjects:</p> <ul style="list-style-type: none"> • Biology • Chemistry • Information Technology • Physics 	<p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p>
<p>Information Technology</p> <p>Specialisations:</p> <ul style="list-style-type: none"> • Enterprise Systems • Game Development • Hospitality & Tourism • Information Systems 	S69	3	<p>a) Bahasa Inggeris (1119)</p> <p>b) Elementary or Additional Mathematics</p> <p>c) Any two other subjects</p> <p><u>Note:</u> To be eligible for admissions, you must also have sat for at least one of the following subjects:</p> <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	<p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p>
<p>Integrated Events & Project Management</p>	S50	3	<p>a) Bahasa Inggeris (1119)</p> <p>b) Elementary or Additional Mathematics</p> <p>c) Any two other subjects</p> <p><u>Note:</u> To be eligible for admissions, you must also have sat for at least one of the following subjects:</p> <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	<p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p> <p>A⁺ to C/ 1 to 6</p>

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Marine Engineering ^ Specialisations: <ul style="list-style-type: none"> • Offshore Technology • Shipboard Operations 	S63	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics Applicants must ensure that they do not suffer from colour appreciation deficiency.	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Maritime Business	S74	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects Note: To be eligible for admissions, you must also have sat for at least one of the following subjects: <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Materials Science	S37	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Mechanical Engineering ^ Specialisations: <ul style="list-style-type: none"> • Aeronautical Technology • Mechanical Technology • Precision Engineering • Product Realisation • Resort Facilities Management • Systems Engineering 	S91	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Mechatronics and Robotics ^@	S73	3	Applicants must ensure that they do not suffer from hearing deficiency.	
Music & Audio Technology	S97	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any three other subjects	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note: To be eligible for admissions, you must also have sat for at least one of the following subjects: <ul style="list-style-type: none"> • Additional Science • Biology • Chemistry • General Science • Information Technology • Physics 	
Nutrition, Health & Wellness Specialisations: <ul style="list-style-type: none"> • Health & Fitness • Nutrition 	S44	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects : <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

Note:

^ Applicants must ensure they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

@ Applicants must ensure that they do not suffer from colour appreciation deficiency.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
SINGAPORE POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Optometry	S67	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects: <ul style="list-style-type: none"> • Biology • Chemistry 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Perfumery and Cosmetic Science	S38	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) One of the following 3 rd relevant subjects : <ul style="list-style-type: none"> • Biology • Chemistry • Physics 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aerospace Electronics ② ③	T50	3	a) Bahasa Ingggris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) Any one of the following subjects:	A ⁺ to C/ 1 to 6
Aerospace Engineering ② ③	T51	3	Biology Chemistry Combined Science Design & Technology Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	
Aviation Management & Services	T04	3		
<p><u>Concentrations:</u></p> <ul style="list-style-type: none"> • Airport Management • Airline Business • Air Traffic Management • Flight Operations 				

Note

- ② Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ③ For safety reasons, applicants applying for these courses must ensure that they do not suffer from medical conditions such as epilepsy or hearing impairment.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Biomedical Informatics & Engineering ② Electives: ④ <ul style="list-style-type: none"> • Audiometry and Hearing Devices • Clinical Laboratory Equipment 	T38	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects: Biology Chemistry Combined Science Design & Technology Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Business Process & Systems Engineering Concentrations: <ul style="list-style-type: none"> • Customer Relationship Management • Systems Modeling & Simulation 	T43	3		
Clean Energy ①	T52	3		
Computer Engineering Electives: ④ <ul style="list-style-type: none"> • Game Programming • Network Security • ASP.NET programming 	T13	3		

- Note**
- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ② Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ④ Allocation of options/electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Electronics/ Media & Communication Technology/ Computer Engineering/ Microelectronics (ETCM) ⑦ The first year is common to all students and they will opt for one of the following diplomas at the end of Year 1: 1) Dip in Electronics (with Options) : ④ <ul style="list-style-type: none"> • Aerospace Electronics • Business • Robotics • Networking 2) Dip in Media & Communication Technology (with electives) : ④ <ul style="list-style-type: none"> • Wireless Networks • Multimedia Services 3) Dip in Computer Engineering (with electives) : ④ <ul style="list-style-type: none"> • Game Programming • Network Security • ASP.NET programming 4) Dip in Microelectronics (with electives): ④ <ul style="list-style-type: none"> • Nanotechnology • Materials Science 	T05	3	a) Bahasa Ingggris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Biology Chemistry Combined Science Design & Technology Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	

Note:

- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.
- ⑦ The first semester in T05 (Electronics/ Media & Communication Technology/ Computer Engineering/ Microelectronics) and T50 (Diploma in Aerospace Electronics) are common. Suitable students from the Electronics/ Media & Communication Technology/ Computer Engineering/ Microelectronics course can join the Diploma in Aerospace Electronics course after their first semester.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Info-Communications Electives: ④ <ul style="list-style-type: none"> • Game Programming and Web Services • Networking and Media Communications 	T37	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects: <ul style="list-style-type: none"> Biology Chemistry Combined Science Design & Technology Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) 	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Integrated Facility Management (<i>Previously known as Integrated Facility Design & Management</i>) Electives: ④ <ul style="list-style-type: none"> • Aviation Facilities • Hospitality Facilities 	T28	3		
Green Building & Sustainability (<i>Previously known as Intelligent Building Technology</i>)	T29	3		
Interactive Media Technology ② Concentrations: <ul style="list-style-type: none"> • 3D Simulations • 3D Product Modeling • 3D Displays 	T49	3		

Note:

- ② Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Mechatronics ③ Options: ④ <ul style="list-style-type: none"> • Aerospace Engineering • Process Control & Automation • Robotics 	T06	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Media & Communication Technology Electives: ④ <ul style="list-style-type: none"> • Wireless Networks • Multimedia Services 	T12	3	Biology Chemistry Combined Science Design & Technology Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	

Note:

- ③ For safety reasons, applicants applying for these courses must ensure that they do not suffer from medical conditions such as epilepsy or hearing impairment.
- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Applied Food Science & Nutrition	T26	3	a) Bahasa Ingggris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects: Biology Chemistry Combined Science Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Baking & Culinary Science	T44	3		
Biomedical Science ②	T27	3		
Biotechnology	T31	3		

Note

- ② Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Chemical Engineering	T33	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any one of the following subjects:	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Pharmaceutical Science	T25	3	Biology Chemistry Combined Science Engineering Science Physical Science Physics Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry)	
Veterinary Technology ①	T45	3		

Note:

- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Cyber & Digital Security ①	T15	3	a) Bahasa Inggeris (1119)	A ⁺ to C/ 1 to 6
			b) Elementary or Additional Mathematics	A ⁺ to C/ 1 to 6
			c) Any two other subjects, excluding CCA	A ⁺ to C/ 1 to 6
			Note: To be eligible for selection, you must also have sat for at least one of the following subjects:	
			Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Creative 3-D Animation Design & Technology Engineering Science Food & Nutrition Fundamentals of Electronics General Science Human & Social Biology Integrated Science Physics Physical Science Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Financial Business Informatics ① Options: ④ • Finance • Banking	T17	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects, excluding CCA	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			Note: To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Creative 3-D Animation Design & Technology Engineering Science Food & Nutrition Fundamentals of Electronics General Science Human & Social Biology Integrated Science Physics Physical Science Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	
Game & Entertainment Technology ②	T16	3		

Note:

- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ② Applicants applying for these courses must ensure that they do not suffer from colour appreciation deficiency. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Information Technology ① Options: ④ <ul style="list-style-type: none"> • Enterprise IT • Enterprise Business Informatics 	T30	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects, excluding CCA	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
			<p>Note: To be eligible for selection, you must also have sat for at least one of the following subjects:</p> <p>Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Creative 3-D Animation Design & Technology Engineering Science Food & Nutrition Fundamentals of Electronics General Science Human & Social Biology Integrated Science Physics Physical Science Science (Chemistry, Biology) Science (Physics, Biology) Science(Physics, Chemistry) Science (Physics, Chemistry, Biology)</p>	

Note:

- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.

B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
TEMASEK POLYTECHNIC

Course	Course	Duration	Entry Requirements	
	Code	(Years)	Subject	Grade
Interactive Media Informatics ^① Options: ^④ <ul style="list-style-type: none"> • Rich Media Commerce • 3D Digital Entertainment • Edumatics 	T34	3	a) Bahasa Inggeris (1119) b) Elementary or Additional Mathematics c) Any two other subjects, excluding CCA	A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6 A ⁺ to C/ 1 to 6
Mobile & Network Services ^① (Previously known as <i>Mobile & Wireless Computing</i>) Options: ^④ <ul style="list-style-type: none"> • Mobile Solutions • IT Service Management 	T42	3	Note: To be eligible for selection, you must also have sat for at least one of the following subjects: Additional Combined Science Additional Science Biology Chemistry Combined Science Computer Studies Creative 3-D Animation Design & Technology Engineering Science Food & Nutrition Fundamentals of Electronics General Science Human & Social Biology Integrated Science Physics Physical Science Science (Chemistry, Biology) Science (Physics, Biology) Science (Physics, Chemistry) Science (Physics, Chemistry, Biology)	

Note:

- ① Applicants applying for these courses must ensure that they do not suffer from complete colour appreciation deficiency. Applicants with partial colour appreciation deficiency may apply. Applicants who do not satisfy the pre-requisite may lead to non-acceptance to the course of study.
- ④ Allocation of options/ electives will depend on students fulfilling the prerequisite of completing selected modules, meeting criteria and also availability of places in the respective courses.