

## COURSES AND ENTRY REQUIREMENTS – STPM

Entry Requirements of STPM Holders for Admission to Full-time 3-Year or 2-Year Diploma Courses.

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 STPM examination:

STPM holders can also apply for full-time 3-Year courses that are meant for SPM holders.

### B) SCIENCE & TECHNOLOGY COURSES

#### NANYANG POLYTECHNIC

Course	Course Code	Duration (Years)	Minimum Entry Requirements	
			Subject	Grade
Electronics, Computer & Communications Engineering @	C89	2	a) General Paper (English Medium) Or	1 - 6
Manufacturing Engineering	C88	2	Bahasa Inggeris (1119)	1 - 6
			b) "A"Level pass in Physics or Physical Science	A - E
Mechatronics Engineering @	C87	2	c) "A"Level pass in Mathematics	A - E

**Note:**

Successful applicants may have to attend a bridging program before the courses start.

@ Applicants who have 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
Biomedical Science	N59	2	a) General Paper (English Medium) Or Bahasa Inggeris (1119)	1 - 6
Molecular Biotechnology	N49	2	b) "A" Level pass in Mathematics c) "A" Level pass in one of the following relevant Science subjects:- - Biology - Chemistry - Physical Science  d) An "O" Level pass in Biology, Chemistry or Combined Science (Biology, Chemistry) if the "A" Level Science subject offered does not include Biology or Chemistry.	1 - 6 A - E A - E
Electrical Engineering <sup>B D</sup> <u>Options:</u> • Minor in Business Management • Electronics • Engineering Management • Power Engineering • Solar Technology	N43	2	a) General Paper (English Medium) Or Bahasa Inggeris (1119) b) "A" Level pass in Mathematics c) "A" Level pass in Physics, Physical Science or Engineering Science	1 - 6 1 - 6 A - E A - E

**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
Mechatronic Engineering <sup>B D E</sup> <u>Options:</u> <ul style="list-style-type: none"> <li>• Minor in Business Management</li> <li>• 6-month Internship Programme</li> <li>• Aerospace Applications</li> <li>• Automation &amp; Robotics</li> <li>• Micro Electromechanical Systems</li> </ul>	N50	2	a) General Paper (English Medium) Or Bahasa Inggeris (1119) b) "A" Level pass in Mathematics c) "A" Level pass in Physics, Physical Science or Engineering Science	1 - 6  1 - 6 A - E A - E
Product Design & Innovation <sup>B</sup>	N68	2		

**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)**  
**REPUBLIC POLYTECHNIC**

Course	Course Code	Duration (Years)	Minimum Entry Requirements	
			Subject	Grade
Aerospace Avionics	R20	3	a) General Paper (English Medium)	1 - 6
Biomedical Electronics	R15	3	Or	
Biomedical Sciences	R14	3	Bahasa Inggeris (1119)	1 - 6
Biotechnology	R16	3		
Civil Aviation	R39	3	b) "A"Level pass in Mathematics	A - E
Common Engineering Programme <sup>②</sup>	R42	3	c) "A"Level pass in any one subject:	A - E
Digital Entertainment Electronics	R38	3	- Biology - Chemistry - Physical Science - Physics	
Environmental Science	R29	3		
Industrial and Operations Management	R11	3		
Materials Science	R17	3		
Micro and Nanotechnology	R30	3		
Pharmaceutical Sciences	R22	3		
Renewable Energy Engineering	R41	3		
Supply Chain Management	R21	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)	Minimum Entry Requirements	
			Subject	Grade
Business Applications <b>Options:</b> <ul style="list-style-type: none"> <li>• Financial and Banking Applications</li> <li>• Healthcare Applications</li> <li>• Hospitality and Retail Systems</li> <li>• Manufacturing and Logistics Systems</li> </ul>	R18	3	a) General Paper (English Medium) Or Bahasa Inggeris (1119) b) "A" Level pass in Mathematics	1 - 6  1 - 6 A - E
Business Information Systems <b>Options:</b> <ul style="list-style-type: none"> <li>• Human Resource Information Systems</li> <li>• Finance and Accounting Information Systems</li> <li>• Sales and Marketing Information Systems</li> </ul>	R13	3		
Information Technology <b>Options:</b> <ul style="list-style-type: none"> <li>• Networking and Security</li> <li>• IT Security</li> <li>• Enterprise Infrastructure</li> </ul>	R12	3	a) General Paper (English Medium) Or Bahasa Inggeris (1119) b) "A" Level Pass in Mathematics	1 - 6  1 - 6 A-E
Aerospace Engineering (Quality Systems)	R40	3		
Interactive and Digital Media <b>Options:</b> <ul style="list-style-type: none"> <li>• Computer Animation</li> <li>• Digital Audio and Video</li> <li>• Games Development</li> </ul>	R31	3		
IT Service Management	R23	3		
Health Management and Promotion	R43	3	a) General Paper (English Medium) Or Bahasa Inggeris (1119) b) "A" Level pass in Mathematics	1 - 6  1 - 6 A - E
Sports and Exercise Sciences	R26	3	c) "A" Level pass in any 1 subject:  Biology Chemistry Physics Physical Science	A - E

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

Course	Course Code	Duration (Years)	Minimum Entry Requirements	
			Subject	Grade
Biotechnology @	S72	2	a) Bahasa Inggeris (1119) b) "A"Level pass in any Mathematics c) One of the following Science subjects: Biology * Chemistry	1 - 6 A - E A - E
Chemical Process Technology @	S64	2	a) Bahasa Inggeris (1119) b) "A"Level pass in any Mathematics c) Chemistry	1 - 6 A - E A - E
Civil Engineering & Management^	S68	2	a) Bahasa Inggeris (1119) b) "A"Level pass in any Mathematics c) Physics	1 - 6 A - E A - E
Food Science & Technology@	S47	2	a) Bahasa Inggeris (1119) b) "A"Level pass in any Mathematics c) Chemistry	1 - 6 A - E A - E
Property Development & Facilities Management	S95	2	a) Bahasa Inggeris (1119) b) "A"Level pass in any Mathematics c) One of the following subjects: Chemistry Physics	1 - 6 A - E A - E

**Note:**

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

\* Applicants offering Biology must also have attained a minimum of Grade 6 in Chemistry at SPM examination.

^ 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.

All successful applicants will be admitted to the 2<sup>nd</sup> year of the above 3-year courses. For all other courses not in the above table, entry will be based on your SPM qualifications.