

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 (CONT'D) TEMASEK POLYTECHNIC

Course	Course Code	Duration (Years)	Entry Requirements	
			Subject	Grade
Aerospace Electronics ② ③	T50	3	a) Bahasa Inggeris (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		

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- 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:	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		

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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)	

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B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
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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		

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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		

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B) SCIENCE & TECHNOLOGY COURSES (CONT'D)
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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
			<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>	

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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		

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			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>	

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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 <i>(Previously known as 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)	

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