

新加坡工程专家协会

Singapore Institute of Engineering Technologists

Website : www.siet.org.sg

Postal Address :

Clementi Central P.O.Box 103, Singapore 911204.

SIET @ SCWO

96 Waterloo Street, #02-02, Singapore 187 967.

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[Nearest MRT : Bras Basah/Bugis]

SIET is a Founder Member of the **World Federation of Technology Organizations** (WFTO). [website : www.wfto.org]

SIET is a Full Member of the Singapore Professional Centre (SPC). [website : www.spc.org.sg]

(A) SIET Professional Examinations – Structure, Levels & Awards (Singapore)

[Approved by SIET Council on 20 April 2012]

SIET – Professional Examinations	Academic Awards (Singapore) Acceptable by SIET as equivalent		SIET – Professional Awards
	PET System	CET System	
Level 1 Exam (Associate Membership) (8 Subjects)(Common) [≈ ITE – Higher Nitec Standard] → AMSIET	ITE – Higher Nitec (2 years FT or 3 years PT)	WSQ – Level 3 (Advanced Certificate)	Associate Diploma [ADip(SIET)]
Level 2 Exam (Membership) (8 Subjects) [≈ Poly Diploma Standard] → MSIET	Poly Diploma (3 years FT or 5 years PT)	WSQ – Level 5 (Specialist Diploma)	Membership Diploma [MDip(SIET)]
Level 3 Exam (Fellowship) (6 Subjects) [≈ Final Year of an accredited First Degree Standard] → FSIET → MSPE, PEng(UK)	Poly – Advanced Diploma OR BEng (NUS/NTU)	WSQ – Level 6 (Graduate Diploma)	Fellowship Diploma [FDip(SIET)]

(B) Guide to SIET Professional Examinations & Awards at Approved Overseas Training Centres

SIET – Professional Examinations	SIET – Professional Awards	Equivalent Academic Awards at approved PEIs/Overseas Training Centres
Level 1 Exam (Associate Membership) (8 Subjects)(Common) [≈ ITE – Higher Nitec Standard] → AMSIET	Associate Diploma [ADip(SIET)]	Diploma in Engineering Technology (8 Common subjects)
Level 2 Exam (Membership) (8 Subjects) [≈ Poly Diploma Standard] → MSIET	Membership Diploma [MDip(SIET)]	Advanced Diploma in Engineering Technology (6 Common subjects with 2 Electives : Civil; Electrical; Mechanical)
Level 3 Exam (Fellowship) (6 Subjects)(Engineering or Management Stream) [≈ Final Year of an accredited First Degree Standard] → FSIET → MSPE, PEng(UK)	Fellowship Diploma [FDip(SIET)]	Professional Diploma in Engineering Technology (with Specialization in Civil; Electrical; Mechanical; Industrial; Construction)
		Graduate Diploma in Management (with Specialization in Financial Management; Cost Engineering/Management; Engineering Management; Quality Management; Project Management)

ITE = Institute of Technical Education

Poly = Singapore Polytechnic (SP); Ngee Ann Polytechnic (NP); Temasek Polytechnic; Nanyang Polytechnic (NYP); Republic Polytechnic (RP).

PET = Pre-Employment Training

CET = Continuing Education & Training

WDA = Workforce Development Agency

WSQ = Workforce Skills Qualifications (Six Levels : Level 1 to Level 6)

SIET = Singapore Institute of Engineering Technologists
 [website : www.siet.org.sg]

SPE = The **Society of Professional Engineers, United Kingdom.**

[Suitably qualified SIET members can apply to become Member of SPE [MSPE] and Professional Engineer, United Kingdom [PEng(UK)]

[website: www.professionalengineers-uk.org]

For further details about SIET Examinations, Recognitions & Career Pathways, Please contact :

Dr Sam Man Keong

Chairman,

SIET Accreditation & Examination Board,

Singapore Institute of Engineering Technologists

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(Established in 1980)[ROS 217/80 TAP]

Postal Address

Clementi Central P.O.Box 103,
Singapore 911204.

SIET – Professional Activities Centre @ Waterloo Street

SCWO, 96 Waterloo Street, #02-02, Singapore 187967.

[Nearest MRT Station: **Bras Basah/Bugis Junction**]

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HP : (65) 96629459 [Mr Loo YS - Membership]

HP : (65) 98172337 Mr TRC Raja – Education & Training]

HP : (65) 96740515 [Dr Sam MK - Accreditation]

Email: sietsg@gmail.com; Sammk@singnet.com.sg

SIET Professional Examinations

[Engineering Stream]

[Revised 28 January 2011]

[Level 2 & Level 3 based on IEM/BEM Graduate Examinations]

(A) Structure & Standard

Level 1	Associate Membership Examination (→ AMSIET, CertEA) . 8 subjects (common) [≈ ITE – Higher Nitec standard]
Level 2	Membership Examination (→ MSIET, CertET) . 8 subjects (Engineering*/Construction) [≈ Poly Diploma standard]
Level 3	Fellowship Examination (→ FSIET, CertTS) . 6 subjects (Engineering* or Management Stream) [≈ Final Year of an accredited First Degree standard]
*Civil Engineering; Electrical Engineering; Mechanical Engineering; Chemical Engineering.	

(B) Background

- **SIET – Level 1 (Associate Membership)** is benchmarked as a ‘Foundation Programme’ for preparing candidates of various backgrounds to enter the normal engineering degree programme.
- **SIET – Level 2 (Membership) Examination** is benchmarked according to the **IEM/BEM Graduate Examination Part 1 Examination** (March 2011 edition)[Website : www.iem.org.my]
- **SIET –Level 3 (Fellowship) Examination** (Engineering Stream) is benchmarked according to the **IEM/BEM Graduate Examination Part 2 Examination (March 2011 edition)** [Website : www.iem.org.my]

(C) Objectives

1. To provide an **alternative pathway** for those school leavers or working adults to become a qualified ‘Engineering Technologists’ and ‘Technical Engineers or Technical Specialists’.
2. To provide the participants with knowledge of fundamental engineering subjects in **Civil Engineering***.
3. To train the participant’s ability to apply his knowledge and experience in engineering practice, and his knowledge of the rules and regulations regulating the practice of professional engineering in the branch of **Civil Engineering***.
4. Be adequately prepared to sit for **SIET – Test of Professional Competency** leading to **SIET – Certified Engineering Technologist (CertET)** and **SIET – Certified Technical Specialist (CertTS)**.
5. To provide an **alternative pathway** for Polytechnic Diploma graduates in Engineering discipline to become a **PEng(UK)** of the Society of Professional Engineers, United Kingdom.[website : www.professionalengineers-uk.org]

(D) Examination Subjects

Level 1 - Associate Membership Examination (Common) (8 subjects)

[According to Clause 4(f)(iii) of SIET Constitution]

AM101-	Engineering and Commercial functions in business.
AM102-	Engineering systems.
AM103-	Engineering processes.
AM104-	Engineering materials.
AM105-	Design development.
AM106-	Engineering in society and the environment.
AM107-	Science in engineering.
AM108-	Mathematics for Engineering.

Level 2 – SIET Membership Examination (Civil)*(8 subjects)

[According to Clause 4(e)(iii) of SIET Constitution]

CE101 -	Engineering Mathematics	[CG101]^
CE102 -	Engineering Materials 1	[CG102]^
CE103 -	Engineering Science	[CG103]^
CE104 -	Engineering Perspectives and Skills	[CM201]^
CE105 -	Computer Applications in Engineering	[CG104]^
CE106 -	Management for Engineers	[CG202]^
CE107 -	<i>Engineering Mechanics@</i>	[CM101]^
CE108 -	<i>Hydraulics and Hydrology@</i>	[CC101]^

[@ Electives for Civil Engineering]

Level 3 – SIET Fellowship Examination (Civil)*(6 subjects)

[According to Clause 4(d)(ii) of SIET Constitution]

CE201 -	Fluid Mechanics	[DC201]^
CE202 -	Mechanics of Solids	[DC202]^
CE203 -	Structural Analysis	[DC203]^
CE204 -	Structural Design	[DC204]^
CE205 -	Geotechnical Engineering	DC205^
CE206 -	Surveying	[DC206]^
GE300 -	<i>The Engineer in Society (incorporating Engineering Ethics)#</i>	

[# Optional : For those who are preparing for the SIET – Test of Professional Competency for Registration as CertET or CertTS]

*[*Detailed syllabuses for IEM/BEM Graduate Examinations in Civil Engineering and other Engineering Disciplines, e.g. Electrical Engineering, Mechanical Engineering and Chemical Engineering are available for downloading from IEM website : www.iem.org.my]*

[^Subject Codes according to IEM/BEM Graduate Examination Regulations – revised for March 2011 Examinations]

Related Details:

SIET Professional Examinations (in Civil Engineering) will normally be held twice a year (**July and December**) in Singapore and/or other overseas centres depending on demand.

Candidates must complete all subjects at one level or be exempted before proceeding to the next level.

Candidates can apply to sit for any number of subjects at one level at any sitting. Candidates must complete all subjects at each level within a maximum period of 5 years.

Registration Fee : S\$20 per sitting (non-refundable).

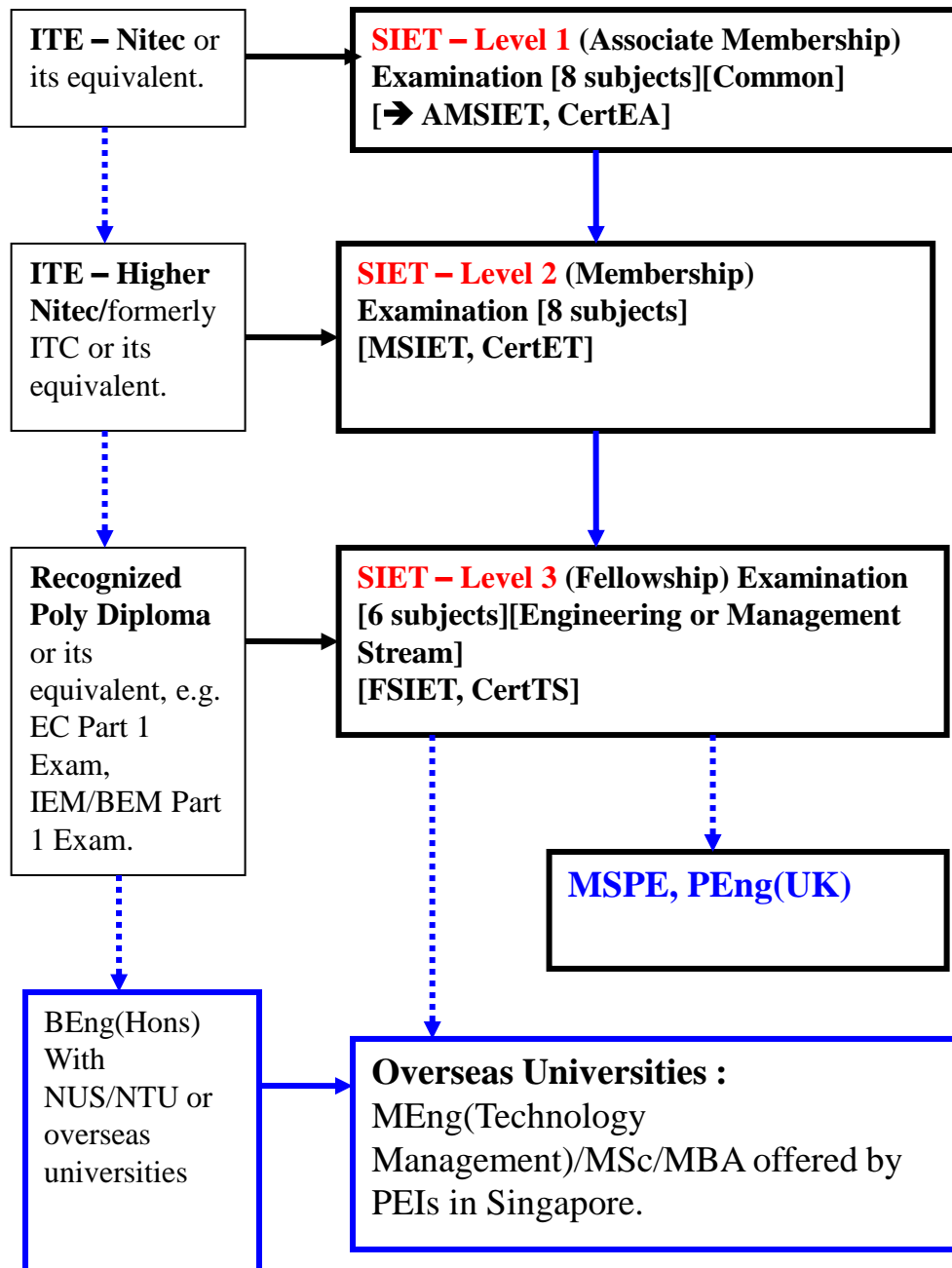
Examination Fees (Singapore Centre) : **S\$40 per Level 1 subject** per sitting; **S\$60 per Level 2 subject** per sitting; **S\$80 per Level 3 subject per sitting**. (non-refundable if withdrawal is made less than 2 weeks before the commencement date of examination).

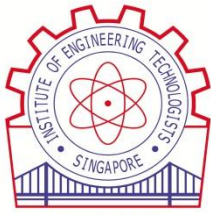
Special Notes on recognitions of IEM/BEM Graduate Examinations by SIET:

Candidates who passed **IEM/BEM Part 1 Examination** is recognized by SIET as satisfying its academic requirement for the membership grade of Member (MSIET).

Candidates who passed the **SIX compulsory subjects in IEM/BEM Part 2 Examination** is recognized by SIET as satisfying its academic requirement for the membership grade of Fellow (FSIET).

Pathways to SIET Membership & Further Studies/PEng(UK)





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Singapore Professional Centre

[website : www.spc.org.sg]

SIET is a Full Member of SPC.

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Pathway for Polytechnic Diploma graduates in Engineering/Technology to become **PEng(UK)**

via

**SIET/DTMSI – Level 3 Examination
(6 Subjects)**

Management
Stream

FIVE Main Specializations:

- **Engineering Management**
(based on Pearson/PrenticeHall Education)
- **Financial Management**
(based on UK: IFA – UK Syllabuses)
- **Project Management**
(based on USA: PMI-PMP syllabuses)
- **Cost Engineering/Management**
(based on USA: AACI-CCE syllabuses)
- **Quality Management**
(based on UK: CQI-Diploma in Quality Management syllabuses)

SIET – Level 3 Examination [2011]

[Management Stream specializing in Engineering Management]

[Based on Recommended Textbooks by Pearson/PrenticeHall Publications]

Six Subjects [Engineering Management Series]

GDEM301	-	Management Concepts & Applications
GDEM302	-	Management Science Methods
GDEM303	-	Operations Management
GDEM304	-	Project Management
GDEM305	-	Quality Management
GDEM306	-	Financial Management

Entry Criteria:

1. Recognized Polytechnic Diploma holders in any Engineering discipline or its equivalent.
2. **Mature candidates** (Age : > 30 years) without the minimum academic qualifications but with at least 10 years of relevant working experience can also be considered to sit for SIET – Level 3 Examination (Management Stream) on a case-to-case basis.

Mode of Study

1. **External Mode** : Candidates can purchase the recommended textbooks from the publisher : Pearson/PrenticeHall and prepare for the exam on their own. For Pearson(Singapore), please contact : Ms Carolyn Too, Tel: 6319 9255; HP: 9027 5751; Email : Carolyn.too@pearson.com
2. **Face-to-Face Mode** : Candidates can attend ‘preparation courses’ at **SIET - approved training centres or training providers** in Singapore or overseas. Please check with the local training providers.

Examination Details:

1. This exam is open to SIET members only.
2. This examination will be held TWICE a year (**April; October**)
3. For External Candidates : Each subject is assessed by a 3-hour written examination paper.
4. Candidates are allowed to sit for any number of subjects in each sitting.
5. Candidates must complete all the SIX subjects within a maximum period of Four Years.
6. Examination Fee per Sitting :
 - **For Singapore Candidates** : **S\$80 per subject.**
 - **For Overseas Candidates** : These can be arranged at approved exam centre subject to **additional local invigilation fee.**
7. **Application to sit for SIET Exams must reach SIET office at least one month before the date of Examination, i.e. For the April 2012 Exam, completed Examination Entry Form with Exam Fee must reach SIET Office by 1 March 2012. [Attention : SIET Accreditation & Examination Board, 96 Waterloo Street #02-02, Singapore 187967.]**

Awards & Recognitions

- a) **Certificate of Attendance** : Participants who attend at least 80% of the lectures at SIET – Approved Training Providers will be awarded the **SIET – Certificate of Attendance.**
- b) **Certificate of Competency** : Participants who sat & passed the SIET written examination will be awarded the **SIET – Certificate of Competency in each subject passed.** This Certificate of Competency can be considered as one of the ‘**Supplementary Qualifications [1 point]**’ for application for Registration as a **Professional Engineer [PEng(UK)]** of **The Society of Professional Engineers, United Kingdom.** [website : www.professionalengineers-uk.org]
- c) **Candidates who have completed all the SIX subjects will be formally awarded a ‘Examination Certificate’.** This ‘Examination Certificate’ is recognized by SIET as satisfying the academic requirement for the membership grade of ‘**Fellow (FSIET)**’.

List of Recommended Textbooks – Engineering Management

[Based on Pearson/PrenticeHall Education] [Contact in Singapore: Ms Carolyn Too, Tel: 6319 9255; HP: 9027 5751; Email : Carolyn.too@pearson.com]

Subject (SIET)	Recommended Textbook (Pearson)
GDEM301 - Management Concepts & Applications	Fundamentals of Management by Stephens P. Robbins, David A. Decenzo and Mary Coulter, Seventh Edition (2011)
GDEM302 - Management Science Methods	Introduction to Management Science by Bernard W. Taylor III, Tenth Edition (2010)
GDEM303 - Operations Management	Principles of Operations Management by Jay Heizer and Barry Render, Eight Edition (2011)
GDEM304 - Project Management	Project Management by Jeffrey K. Pinto, Second Edition (2010)
GDEM305 - Quality Management	Quality Management by Donna C.S. Summers, Second Edition (2009).
GDEM306 - Financial Management	Financial Management by Sheridan Titman, Arthur J. Keown and John D. Martin, Eleventh Edition (2011)

For further details, please contact SIET Accreditation & Examination Board:

Mr TRC Raja, Deputy Chairman

BSc(Eng), MSc(NUS), MSc(Eng), FSIET,

PGDSA(NUS), PGDM(UK), GDPM(SIM), Dip.T&D(UK), GDip.M(UK), Dip.In Wealth Management, Fellow Chartered Financial Practitioner, Senior Financial Consultant.

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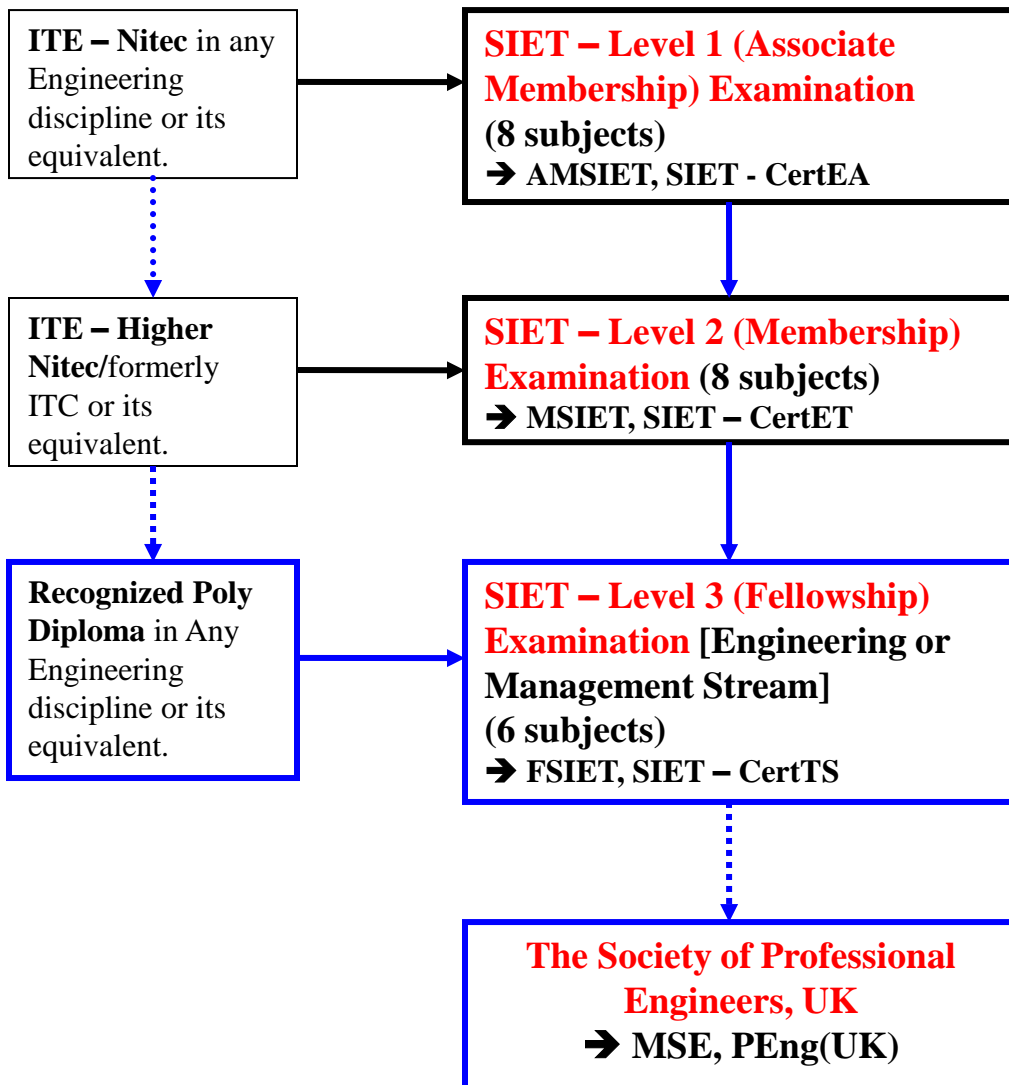
Dr Sam Man Keong, Chairman

BE(Hons), MSc(Civil Eng), MSc(Geot Eng), EdD, CEng, FIET, MICE, MIMMM, CEng, MIEI, MIEAust, CPEng, FBE, CEnv, LMTAM, CMath, MIMA, CSci, LMTAM, FSIET(F).

[HP : 9674 0515 ; Email: sammk@singnet.com.sg]

Routes to become a PEng(UK) via DTMSI(SA) and SIET Professional Exams

[wef 1 January 2010]



DTMSI = Design, Technology and Management Society International, South Africa. [website : www.dtsmsi.org]

SIET = Singapore Institute of Engineering Technologists (SIET) [website : www.siet.org.sg]

SPE = The Society of Professional Engineers, United Kingdom. [website : www.professionalengineers-uk.org]