

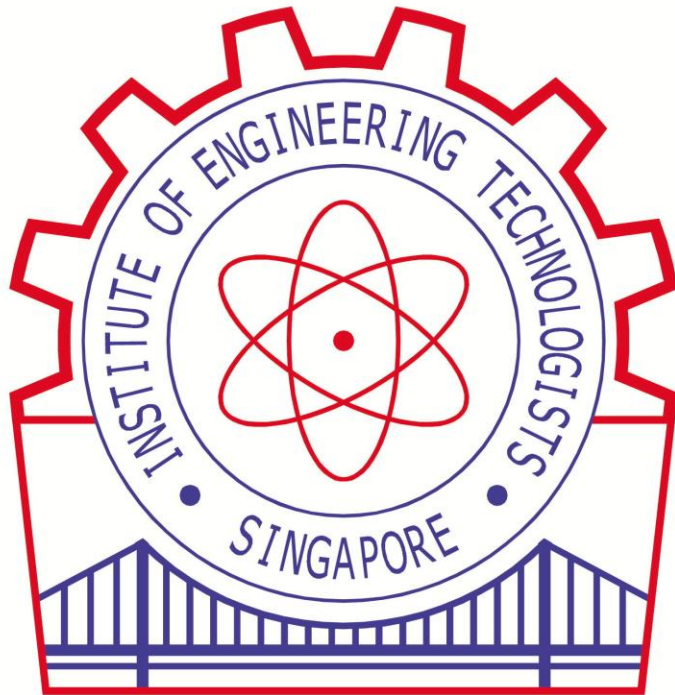
*Alternate Routes to **SIET**
Professional Membership
& **MSPE, PEng(UK)***

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Highlights

- *SIET Professional Examinations*
- *SIET – STEM (Jointly with ICES)*
- *SIET – Special Examinations : CCE; CEM*
- *SIET – Special Competency Tests in Engineering Mathematics*
- *Criteria to become MSPE, PEng(UK)*
- *Q & A*

Our Speakers



Founded 1980



Mr TRC Raja, President
(SIET)

Our Speakers



**Mr Wong Yat Keong,
2nd VP (SIET)**



**Dr Sam Man Keong
Honorary Secretary
(SIET)**

SIET Professional Examinations

■ Background:

- The Society of Engineers, UK : Part 1; Part 2; Part 3
 - CEI Parts 1 & 2
 - EC Parts 1 & 2
 - EC Cert – Grad Dip – Postgraduate Dip
 - IEM/BEM Parts 1 & 2
- Today: SIET Level 1 – Level 2 – Level 3

SIET Professional Examinations

- Level 1 (≈ ITE – Higher Nitec standard)
- Level 2 (≈ Poly Diploma standard)
- Level 3 (≈ USQ – Bachelor of Engineering Technology standard)

SIET – Level 3 (Fellowship) Exam

- **Two main streams:**
 - Engineering (Civil; Electrical; Mechanical)
 - Management
- **Alternate Routes** for ‘Mature Candidates’ with at least a recognized ‘Diploma’ [Min. Age: > 30yrs; Min. Exp. > 5 years.]
 - By **DESIGN**
 - By **Technical Report**

Alternate Routes for 'Mature Candidates become FSIET & MSPE, PEng(UK)

■ By Design (6-hours open-book Exam)

- [Exam Fee per Design Paper per sitting : S\$160]
- The following main disciplines will be available:
 - Civil Engineering Design
 - Electrical Engineering Design
 - Mechanical Engineering Design
 - Chemical Engineering Design
 - Industrial Engineering Design

■ By Individual Project (3 – 6 months)

- . On a chosen topic to be approved by Joint ICES-SIET Membership Committee.
- . Length : About 10,000 words.
- . To be supervised by Supervisor approved by Joint ICES-SIET Membership Committee.
- . **Project Supervision Fee** : S\$500 (5 x 2 hours = 10 hours of face-to-face counselling).
- . **Project Assessment Fee** : S\$200

Preparation Courses at **ASTA**

- **Professional Practice** (including Engineering Ethics)
- **Quantitative Methods in Management (OR/Statistics)**
- **Engineering Economics**
- Professional Skills [IFA]
- Financial Accounting [IFA]
- Financial Management [IFA]

SIET – STEM (Jointly with ICES)

- **Level 1 - Competency Tests for Beginners/STEM Programme**
(Preparation for Engineering Studies)
- → AMSIET

- 1. Mathematics
- 2. Applied Mechanics
- 3. Basic Electrotechnology
- 4. General Engineering Knowledge
- 5. Engineering Drawing

SIET – STEM (Jointly with ICES)

- **Level 2 - Competency Tests** for Engineering Technologists
- → MSIET; MICES

- 1. Applied Heat
- 2. Advanced Electrotechnology
- 3. Steam Engineering Knowledge
- 4. Instrumentation & Control Systems
- 5. Motor Engineering Knowledge

SIET – Special Examinations : CCE; CEM

- **Certified Cost Engineer (CCE) Exam**
 - **Section A** - Fundamentals of Engineering Cost Estimation
 - **Section B** - Fundamentals of Engineering Economics
 - **Section C** - Project Evaluation Techniques
- **AACE International – USA:**
 - AACE International – CCC/CCE Certification Study Guide, 3rd Edition.

SIET – Special Examinations : CCE; CEM

- **Certified Engineering Manager (CEM) Exam**
 - **Section A** – The Functions of Engineering Management
 - **Section B** – The Business Fundamentals of Engineering Managers
 - **Section C** – Engineering Leadership
- **Engineering Management** : Challenges in the New Millennium by C.M. Chang (2005). Published by Pearson/Prentice-Hall.

SIET – Special Competency Tests in Engineering Mathematics [5 levels]

- **Level 1** – Engineering Mathematics 1
 - ≈ GCE(O) Additional Mathematics/SIET – Level 1 Exam standard
- **Level 2** – Engineering Mathematics 2
 - ≈ GCE(A) H2 Mathematics standard
- **Level 3** – Engineering Mathematics 3
 - ≈ Poly Diploma/University First Year/formerly EC Part 1/ now IEM Part 1/SIET- Level 2 Exam standard

SIET – Special Competency Tests in Engineering Mathematics [5 levels]

- **Level 4** – Engineering Mathematics 4
 - ≈ University 2nd Year standard
- **Level 5** – Engineering Mathematics 5
 - ≈ University 3rd Year/formerly EC Part 2/now IEM Part 2/**SIET – Level 3 Exam standard**

Criteria to become MSPE, PEng(UK)

■ **Part A – Qualifications**

- Min. 8 points; Max. 12 points
- Recognized Diploma = 6 points
- Recognized First Degree = 8 points

■ **Part B – Training & Experience**

- Min. 8 points ; Max. 12 points
- At least 4 points for 'Professional Work'.

■ **Total : \geq 18 points.**

For further details, please contact:

■ **Dr Sam Man Keong**

- **Chairman, SIET Accreditation & Exam Board**
- **WCI Appointed Assessor for WAP (World Accredited Practitioner) and WCP (World Certified Professional).**
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- Email: sammk1951@gmail.com
- Websites : www.siet.org.sg ;
www.worldcertification.org

Thank You

Questions & Answers