

Software Technology Parks of India

STPI is a society setup in 1991 by the Ministry of Information Technology Government of India with a prime objective to promote and facilitate development and export of computer software and IT enabled services from the country by providing infrastructure and high-speed communication facilities. STPI has setup 19 centers across the country with its own international gateways (IBS – E3 Earth Station) including one at Trivandrum. These centers are helping about 6400 software exporting companies in the country under the STP scheme. The member units of STPI have exported software and services of over Rs. 51458 Crores during 2003 – 04 period, which accounts for 89% of national software exports. STPI has established business support center in USA and is planning to setup similar facilities in Europe, Japan and Australia to help SME's of Indian IT companies.

Real Time Systems, Inc. USA

Is an integrated technology solutions company founded in 1999, providing an array of innovative tools for reducing operating costs and improving overall efficiencies for process and discrete manufacturing industries. Built around industrial-strength enterprise integration, modeling, analysis and optimization platform, and a next-generation advanced Process control module – RTS solutions can be customized and configured to support a

wide spectrum of industrial automation and optimization requirements. RTS Inc. maintains research and development facilities in the United States, Finland, India and Korea, with more than 40 people involved in R&D worldwide. RTS is making investments to produce a full array of intelligent control and optimization solutions that are standards-based and Internet-enabled.

Optiwise Solutions (P) Ltd joined hands with its principal Real Time Systems, Inc in providing Enterprise Integration Solutions to industrial community. By combining our global expertise, we have implemented a developmental strategy that spans academic and industry domains with true innovation for 21st Century manufacturing. High End Information Technology related to system engineering, integration and database application in the development of cost effective solutions for control, instrumentation, and monitoring systems, is our forte.

Joint Efforts

STPI – T and RTS Inc, USA through its associates at Trivandrum, viz, Optiwise Solutions (P) Ltd have entered into an agreement to impart Embedded Software Training for the benefit of prospective candidates to learn Real Time Embedded Software Technology and introduced the training program with a view to develop a co operative relationship. The parties identified their respective capabilities in these area to

enhance the intellectual capability and technical know-how in the areas of Applied Embedded Technology.

Training in the relevant topics as given below will be completed in three months with about 20 hours per week. This includes practical training of embedded projects.

STPI–T will conduct examination and award certificate to successful candidates and both parties will make efforts to assist placements to all candidates who have successfully completed the training.

Contact

1. Software Technology Parks of India.

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2. Real Time Inc., USA.

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COURSE CONTENTS

Applied Embedded Systems

- ❑ Introduction to embedded systems
- ❑ Microprocessors
- ❑ Micro controllers
- ❑ Real Time Operating Systems
- ❑ Communication Standards & Protocols: (RS232, RS485, I2C, CAN, USB 2.0, USB, OTG, TCP/IP, Modbus, Ethernet)
- ❑ High Speed Board Design Techniques:
- ❑ Architecture of Device I/O Drivers
- ❑ Industrial Control Systems
- ❑ Case Studies on Building Automation Systems:

Wireless Internetworking for Office Automation

- ❑ Foundation – Theory
- ❑ Wireless Communication Technologies
- ❑ Wireless LANs 802.11b, 802.11g
- ❑ Broadband Wireless Data Networks
- ❑ Blue tooth, USB Wireless and Home RF
- ❑ USB Wireless

Biometrics

- ❑ Biometric Technology
- ❑ Biometric Sensors
- ❑ ANSI 358 Standard
- ❑ Fingerprint recognition
- ❑ Fingerprint SDK
- ❑ Iris recognition
- ❑ Iris and fingerprint – large scale Identification

Applied Cryptography

- ❑ Cryptography
- ❑ Public Key Infrastructure
- ❑ Encryption Algorithms –RSA, DSA, AES, 3 DES, RC2, RC4
- ❑ Virtual Private Network (VPN) Systems – SSL, IPsec
- ❑ Transport & Content Encryption
- ❑ Smart card & USB Token Technology

DURATION & FEES

Basic Course – 5 weeks – Rs 15,000

Advanced Course – 10 weeks – Rs 30,000

Full Course _ 15 weeks _ Rs 40,000

(20 hours per week)