Division of Computing and Information Systems (CIS)

New Faculty IT Orientation

Zeev Schneider
zeev@technion.ac.il, ext: 4138

http://cis.technion.ac.il
Table of Content

• CIS brief & key initiatives
• Organization chart and structure
• CIS in numbers
• Responsibility per department
• Information security
• Focus and Key Initiatives
CIS brief and key initiatives

• New CIS division established in 2011
• Established campus IT leadership team
• Engage with faculty via meetings and visits with academic departments
• Consolidate and unify disparate e-mail, calendaring and productivity systems
• Developing IT standards for desktops, servers, security, network, etc.
• Strategic planning for information technology
CIS Statistics

- **Staff - 83 Full Time Employees**
- **Network**
  - 15+ km fiber optic cable & 60+ km high speed copper
  - Network supports ~ 20,000 users
  - 50+ building interconnections
  - Manage 128,000 IP addresses
  - Wireless network consists of 550+ managed access points
- **Data Center**
  - ~500 Physical and Virtual Servers (linux/windows)
  - 250 Terabytes of storage, in Storage Area Networks (SAN)
  - 90 Terabytes of data backed up on a daily basis (growing at 20% per year)
- **Mail and Security**
  - More than 100M email messages/year, more than 80% filtered as SPAM
  - Millions of unsuccessful intrusion attempts/year
CIS Services – Legacy
Contact: Yosi Shacham, ext:2379, yosis@dp.technion.ac.il

• Payroll

• Campus Management
  – Admissions
  – Undergraduate studies
  – Graduate school
  – Student accounting & dorms
  – Dean of students
  – Tuition
CIS Services – SAP
Contact: Moshe Stein, ext:5515, moshest@dp.technion.ac.il

- MM - Materials Management
- FI - Finance
- CO/FM – Controlling
- GM - Grants Management
- PM - Plant Maintenance
- PS - Project Systems
- SD - Sales and Distribution
- HR – Human Resources (went live on January 2014)

- SAP Portal
- CRM - Customers Relationship Management
- SRM – Suppliers Relationship Management
- Development – ABAP, Java, etc.
CIS Services – HR BW
Contact: Judith Brauner, ext: 2253, judithb@technion.ac.il

- **HR section**: Human Capital Management systems
- **BI section**: Data Warehouse systems – for reporting and analysis of data
  - DW – Data Warehouse for legacy systems, mainly Student Management system
  - BW – Business Warehouse for SAP systems (e.g. Finance, Logistics, Grant management...)
Web development

Contact: Noam Bercovitz
Ext: 4247 noamb@technion.ac.il

- Web development
  - WordPress platform
  - Web sites building and consulting
  - E-learning: Moodle, Panopto, Video Server
Microsoft Systems & User Support

Contact: Shay Oldak
Ext: 5510 shayol@technion.ac.il

• **Wintel Systems**
  – Windows Server Support
  – Active Directory Forest Management
  – Email/Collaboration tools (Microsoft Exchange)
  – Office 365
  – SAP Basis
  – Desktop Virtualization (VDI)

Contact: Daniella Tene
Ext: 5518 daniela@technion.ac.il

• **User support major fields**
  – Computer accounts
  – Administration applications
  – Email support
  – Off campus communication

• **User support contact options**
  – Ext. 5600 (Sun- Thu, 07:30 – 19:30)
  – http://5600.technion.ac.il
Telecomm and Core Systems

Contact: Zvoulun Barlev  
Ext: 2174  zvoulun@technion.ac.il  

- Telecommunications
  - Network Services
  - Wireless Access
  - Remote Access
  - Data Center Operations
  - Data Center Hosting
  - Cabling Management (copper & optics)

Contact: Dora Pomerancblum  
Ext: 2649  dora@technion.ac.il  

- Core Systems
  - Central Linux/Unix Servers
  - High Performance Clusters
  - Storage Systems (SAN/NAS)
  - Backup and Recovery
  - Email systems
  - Virtualization
  - LISTSERV
CIS Information Security
Moshe Glickstein, ext: 4992, ciso@technion.ac.il

- Perimeter protection
- Intrusion detection and preventions
- Awareness programs and training
- Information security incident handling
- Anti virus protection (mandatory)
- Smart spam email filter
- Developing security policies, standards and guidelines
Focus and Key Initiatives

- Single Sign On (SSO) to core computing services and resources
- Establishing single Support focal point HELPDESK (ext. 5600)
  http://5600.technion.ac.il
- Servers Infrastructure Virtualization based on VMWARE
- Innovative Backup & Recovery System
- Core Network Upgrade
  - 1Gb to desktop; 10Gb to buildings; 10Gb Internet Uplink
  - Extending the Wi-Fi coverage
- Research High Performance Computing, TAMNUN (3500 cores cluster)
- Portal: Personal information to faculty (e.g. Sabbatical years gained, Keren Hishtalmut, Car entry permits), eForms, smart Emails, Technion hotel’s reservations, software purchases.