

----- INVITATION -----



Welcome to the 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON INFORMATION COMMUNICATION TECHNOLOGIES IN HEALTH and to the beautiful Island of Samos.

The 2005 ICiTh Conference will seek to address the many challenges and new directions presented by technological innovations in the Health Care Sector. Telemedicine and eHealth are among the hot topics of the conference – as insinuates the subtitle ***“Telemedicine and eHealth in recent years: Meeting the challenges”***.

Key note speakers of international recognition in the field of health informatics are expected to attend and all interested scientists with expertise in the theoretical and practical applications of technology in the healthcare sector are invited to participate.

The event constitutes an invaluable opportunity not only for knowledge exchange but also for the initiation of fruitful collaborations between scientists, researchers, faculty, doctors and other hospital staff, experts in telematics as well as other professionals from all over the world concerned with the application of technology in the healthcare sector.

The scientific papers approved by the Scientific Committee of the ICiTh 2005 as suitable for oral presentations in plenary sessions will be published in full in the conference proceedings. A special edition of the "Journal for the Quality of Life Research" of the European Centre for the Quality of Life (E.C.QuaL.) will be reporting on the 3<sup>RD</sup> ICiTh 2005 event.

Last but not least we invite you to participate at the social events of the Conference, which have been carefully selected by the Organizing Committee.

For us this effort was a source of creative joy and stimulating pleasure that we hope we will share with you during July 2005 in Samos Island.

We welcome you to Samos! Welcome to ICiTh 2005!

Sincerely,

**Professor Kyriakos Emm. Kioulafas**

Dean of the Faculty of Economics  
National and Kapodistrian University of Athens  
Chairman of the Organizing Committee

**Professor John Mantas**

Dean of the Faculty of Nursing  
National and Kapodistrian University of Athens  
Chairman of the Scientific Committee

## SCIENTIFIC PROGRAM COMMITTEE

### *Greece*

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<b>Chairman: Prof. John Mantas</b>	Director of the Health Informatics Laboratory Dean of the faculty of Nursing, National & Kapodistrian University of Athens
<b>Prof. Nikolaos Pallikarakis</b>	Department of Medical Physics, University of Patras
<b>Prof. Dimitris Koutsouris</b>	Biomedical Engineering Laboratory, National Technical University of Athens (NTUA)
<b>Prof. Dimitrios Fotiadis</b>	Unit of Medical Technology and Intelligent Information Systems Dept. of Computer Science, University of Ioannina
<b>Eleni kaldoudi, PhD</b>	Assistant Professor, School of Medicine, Democritus University of Thrace
<b>Ilias Maglogiannis, PhD</b>	Lecturer, Dept. of Information and Communication Systems Engineering, University of Aegean
<b>Nikolaos Maniadakis, MSc, PhD</b>	Chairman & Manager Director of the Board The University Hospital of Hraklion-Crete
<b>Alexandros Litis, PhD</b>	Associate Manager, General Hospital of Ioannina "G. Hatzikosta"
<b>Stephen Panayiotou, PhD</b>	Mellon S.A.

### *USA*

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<b>George Demiris, PhD</b>	<b>Assistant Professor,</b> Director of the Health Informatics Graduate Program, Health Management and Informatics, University of Missouri - Columbia
<b>Karen Courtney RN, MSN</b>	NLM Pre-doctoral Informatics Fellow, University of Missouri - Columbia

### *Germany*

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<b>Prof. Dr. Alexander Horsch</b>	Dept. of Medical Statistics and Epidemiology Munich University of Technology, Munich
<b>Thomas Bürkle, MD, PhD</b>	Dept of Medical Informatics, University of Erlangen - Nürnberg
<b>Roxana Corina Dumitru, MD, MSc</b>	Research Assistant, Dept of Medical Informatics University of Erlangen - Nürnberg

## *Austria*

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**Elske Ammenwerth, Ph.D**

**Associate Professor**

Research Group Assessment of Health Information Systems  
UMIT - University for Health Sciences, Medical Informatics and  
Technology

## *The Netherlands*

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**Prof. Arie Hasman**

Dept of Medical Informatics, University of Amsterdam

## *Spain*

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**Prof. Enrique J. Gomez**

Bioengineering and Telemedicine Dept  
ETSI Telecomunicacion, Universidad Politecnica de Madrid –  
UPM

## *Turkey*

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**Albert Guvenis, PhD**

**Associate Professor**

Institute of Biomedical Engineering, Bogazici University

## **ORGANISING COMMITTEE**

**Chairman: Prof. Kyriakos Kioulafas**

Dean of the Faculty of Economics  
National and Kapodistrian University of Athens, Greece

**Prof. Hans-Ulrich Prokosch**

Dept of Medical Informatics, Biometrics and Epidemiology  
Alexander Universität Erlangen-Nürnberg, Germany

**Prof. Elske Ammenwerth**

**Associate Professor**

Research Group Assessment of Health Information Systems  
University for Health Sciences, Medical Informatics &  
Technology, Austria

**George Demiris, PhD**

**Assistant Professor,**

Director of the Health Informatics Graduate Program,  
Health Management & Informatics, University of Missouri -  
Columbia, USA

## CONFERENCE COORDINATOR AND SECRETERAT

**Maria Katharaki** Conference Administrative Director ([Email: icicth@ineag.gr](mailto:icicth@ineag.gr))  
Research and Training Institute of East Aegean

## LOCAL ORGANISING COMMITTEE

**Nikos Kiapes** Chairman, Research and Training Institute of East Aegean

**Maria Katharaki, RN, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Thanos Papadimitriou, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Dimitrios Pardalis, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Joseph Liaskos, PhD** Research Fellow of the Health Informatics Laboratory- Faculty of Nursing, National & Kapodistrian University of Athens,

**George Katharakis, MSc** Mathematician, MSc in Health Informatics

**Athanasios Daflos, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Vasilios Karambelas, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Stelios Daskalakis, MSc** PhD Candidate, National & Kapodistrian University of Athens,

**Jasmin Kioulafa** Samos Dept., Research and Training Institute of East Aegean

**Kostas Tzilas** New Media Architect, NEXTWEB Solutions

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## CONFERENCE WEBSITE

<http://www.ineag.gr/icicth>

## **VENUE**

The **ICICTH 2005 CONFERENCE** takes place in the Conference Center of the *Research and Training Institute of the East Aegean* (INEAG, Samos Island, Greece), Hall "George Hanan".

**INEAG** has established a modern technological infrastructure for providing meeting facilities of the highest standards and it is ideally located in the best part of the Samos Island Greece, Kampos Vourlioton.

*The conference committee would like to thank for their support and kind cooperation:*

- *National and Kapodistrian University of Athens*
- *Hellenic Ministry of Health and Social Welfare*
- *Hellenic Ministry of Culture*
- *SIEMENS HELLAS*
- *INTRACOM S.A.*
- *HEALTHCARE SOLUTIONS S.A.*
- *HEWLETT PACKARD Healthcare Solutions*
- *FARMASERVE – LILLY S.A.*
- *OTEnet S.A.*
- *TEMAGON S.A.*
- *GIT VERLAG Publications, Germany - "Hospital Post Europe" (<http://hospital-post.com>)*

## SCIENTIFIC PROGRAMME OF 3<sup>RD</sup> ICiTh SAMOS 2005

THURSDAY, 7 JULY 2005

HALL G. HANAN

11:00 – 12:00	<b>PICK UP OF CONFERENCE PARTICIPANTS FROM THEIR HOTELS AND TRANSFER TO THE RESEARCH AND TRAINING INSTITUTE OF EAST AEGEAN (INEAG)</b>
12:00 – 12:30	<b>REGISTRATION</b>
12:30 – 13:00	<b>OPENING CEREMONY</b> <i>WELCOME ADDRESS</i> <b>Nikitas Kaklamanis</b> <i>Minister of Health and Social Welfare</i>  <b>Prof. Kyriakos Em, Kioulafas</b> <i>Dean of the Faculty of Economics, National &amp; Kapodistrian University of Athens, Greece</i> <b>Prof. John Mantas</b> <i>Dean of the faculty of Nursing, National and Kapodistrian University of Athens</i>  <i>VIDEOCONFERENCE SAMOS – SPAIN</i> <i>VIHrtual Hospital: a telemedicine system for home care of HIV patients</i> <b>Prof. César Cáceres, Prof. Enrique J. Gomez</b>  <i>OPENING LECTURE</i> <i>TELEMEDICINE AND EHEALTH IN RECENT YEARS: MEETING THE CHALLENGES</i> <b>Prof. Alexander Horsch</b>
13:00 – 13:15	<b>LECTURE</b> <i>Development of telemedicine in a post conflict situation at the example of Kosovo</i> <b>Matthias Reinicke</b>
13:15 – 13:30	<i>Sponsor: HEALTHCARE SOLUTIONS S.A</i> <i>The Introduction implementation of high technology clinical networks in the old fashioned Greek Hospitals</i> <b>Michael Kehayas</b>
13:30 – 14:30	<b>1. eHEALTH AND eLEARNING</b> <b>Prof. J. Mantas (MODERATOR)</b>  <i>Web Service based Information Retrieval in Conventional DICOM Repositories to Support Teaching and Research in Radiology</i> <b>Eleni Kaldoudi, Dimosthenis Karaiskakis, John Manavis</b>  <i>Web-based Personal Health Records in Germany: Clinical Utility and Internet Promotion</i> <b>Roxana Corina Dumitru, Martin Ross, Hans Ulrich Prokosch</b>  <i>The Use of Attentive Interfaces in the Visual Representation and Integration of Medical Information in the Web</i> <b>Themis P. Exarchos, Dora Nanou, Christos Bazios, Yannis Antoniou, Dimitrios I. Fotiadis</b>  <i>The contribution of e-Learning Communities in Health Education</i> <b>Argiris Tzikopoulos, Marianthi Karatza, Ioannis Apostolakis</b>

**IMPROHEALTH: an e-Learning Virtual Quality Center for Vocational Education and Training**

Spyridon Kitsiou, Maro Vlachopoulou, Vicky Manthou

**14:30 – 15:00 COFFEE BREAK**

**15:00 – 15:30 WORKSHOP**

**HP Healthcare Solutions**

*Sponsor: HP Healthcare Solutions*

**15:30 – 17:30 2. TELECOMMUNICATION SOLUTIONS FOR HEALTH TELEMATICS SERVICES**

Ass. Prof. Eleni Kaldoudi (MODERATOR)

**A Review of mobile and ad hoc networking technologies for regional telemedicine applications**

Theodoros Valsamidis, Ilias Maglogiannis, Angelos Rouskas

**Utilization of 3-G Telecommunications Technologies for Telemedicine Applications**

Konstantinos Perakis, Konstantinos Banitsas, Konstantinos Kardaras, Dimitrios Koutsouris

**Multiple application wireless networking infrastructure in hospital environments**

Daniel Zeiss, Reinhold Sojer, Christof Seggewies, Hans Ulrich Prokosch

**WPANs technologies for pervasive e-health applications – State of the art and future trends**

D. Vouyioukas, I. Maglogiannis, D. Vergados, G. Kormentzas, A. Rouskas

**A secure integrated network infrastructure for the support of nursing services in remote places in Greece**

Athanasios Daflos, John Mantas

**Hospital wireless interconnection**

Antonis Proimadis, Michael Papalabrou, Antonios Logothetis, Konstantinos Voulgaris, Antonis Mpalolakis, Ioannis Christakis

**Wireless Functional Optical Imager**

Serkan Karaca, Ata Akin

**17:30 – 20:00 OPENING RECEPTION**

**20:00 TRANSFER TO HOTELS**

## FRIDAY, 8 JULY 2005

HALL G. HANAN

8:00 – 09:00 PICK UP OF CONFERENCE PARTICIPANTS FROM HOTELS AND TRANSFER TO THE RESEARCH AND TRAINING INSTITUTE OF EAST AEGEAN (INEAG)

09:00 – 09:30 **LECTURE**

Prof. J. Mantas (MODERATOR)

**MEDICAL DEVICE SOFTWARE AND PATIENT SAFETY**

George Pappous, Zhivko Bliznakov, George Mitalas, Nikolaos Pallikarakis

09:30 – 10:30 **3. COMPUTERISED HEALTH RECORDS AND EMERGING HEALTH TELEMATIC APPLICATIONS**

Ass. Prof. Ilias Magglogiannis (MODERATOR)

**Evaluation of architectures for shared electronic health records**

Florian Wozak, Elske Ammenwerth, Georg Göbel, Robert Penz, Raimund Vogl, Thomas Schabetsberger

**Labeling of electronic medical and paramedical record systems: a current status**

Ronald Buyl, De Smedt Anouk, Nyssen Marc

**Digging for Hidden Gold: Timeline-based Visualization of Heterogeneous Clinical Data**

Thomas Ganslandt, Stefan Jantsch, Kerstin Mascher, Hans Ulrich Prokosch

**Concept for a scalable GRID-like architecture for secure sharing of medical documents**

Raimund Vogl, Robert Penz, Thomas Schabetsberger, Florian Wozak, Michael Springmann, Georg Göbel

**A Privacy-preserving Design for an Institutional Clinical Research Repository**

Ted D. Wade, James R. Murphy

10:30 – 11:00 **BREAK**

11:00 – 12:00 **4. ASSESSING THE IMPACT OF THE COMPUTERATION OF HEALTHCARE SERVICES**

Prof. Alexander Horsch (MODERATOR)

**A Comparative study of real time teledermatology with conventional outpatient dermatological care- cost-benefit analysis in an Industrial hospital.**

Amiya Kumar Sarma

**The Productivity Impact of Telemedicine System in Greek Hospital Units: the case of Obstetrical and Gynecological Units**

Maria Katharaki

**An IT framework based on SERVQUAL for evaluation of the Healthcare user expectations**

Petros A. Kostagiolas, Stelios Zimeras, Charis G. Platis

**Monitoring evolution in Healthcare domain**

Iraklis Varlamis, Ioannis Apostolakis

**Utilization of On-line Questionnaires and Sampling Techniques for the Evaluation of Healthcare Services**

C. Lambrinoudakis, S. Zimeras, G. Fournaridis, I. Fournaridis

12:00 – 13:00	<b>5. TUTORIAL</b> <i>Data Warehouse: Technologies and concepts for an integrated healthcare reporting platform</i> <b>Thomas Ganslandt</b> <i>About the Author:</i> Th. Ganslandt: Born 1969 in Germany. Studied medicine from 1991-1997 at Muenster University, Germany. Employed at Muenster University Medical school from 1998-2003. Currently employed at Erlangen University, Germany, Department of Medical Informatics. Project lead for Erlangen university hospital Data Warehouse project since 2003
13:00 – 15:00	<b>LUNCH</b>
15:00 – 16:00	<b>6. TELEMONITORING AND TELEMEDICINE SUPPORTED SERVICES</b> <b>Roxana Corina Dumitru (MODERATOR)</b>  <b>A Standard-Based Mobile and Wireless Vital Signs Monitoring System</b> Ana Susperregui, Céline Paloc, Iván Macía, Igor García and Eduardo Carrasco  <b>Automated Vitals Monitoring of Patients During Emergency Response</b> Tia Gao, Dan Greenspan, Matt Welsh  <b>A Secure Location Based Patient Telemonitoring System</b> Konstantinos Delakouridis, Leonidas Kazatzopoulos, Ilias Maglogiannis, Stathes Hadjieftymiades  <b>Telemedicine in Hellenic Armed Forces</b> Vasiliki Aisopou, Panayiotis Liatsis
16:00 – 17:00	<b>7. STANDARDS FOR DATA EXCHANGE AND INTEROPERABILITY IN HEALTH TELEMATICS</b> <b>Prof. Dimitrios Koutsouris (MODERATOR)</b>  <b>HL7-Based Medication adherence monitoring system</b> Ilias Sachpazidis, Maria Majadas  <b>Standardized Exchange of Medical Data between two different screening-programs and an Electronic Health Record using CDA/SCIPHOX</b> Frederic Gerdson, Sascha Müller, Elisabeth Bader, Maria Poljak, Stefan Jablonski, Hans Ulrich Prokosch  <b>An XML-based remote data entry solution in a Multi-centric Research Network</b> Andreas Klein, Thomas Ganslandt, Hans U. Prokosch, Lars Brinkmann, Frank Ueckert  <b>Application Integration and interoperability in Healthcare Environments</b> Stelios Daskalakis, John Mantas
17:00	<b>FREE COMMUNICATIONS</b> <b>Alexandros Lytis (MODERATOR)</b>  <b>Study Concerning the Effect of the Computers on the Users' Health</b> H. Kampoura-Nifli, V. Fika, A. Tziotziou, P. Papachatzopoulou, A. Alexandropoulou, I. Argirakoulis  <b>Quantitative Assessment of Greek Hospitals' Organizational Culture by Using the Competing Values Framework</b> Dimitris Pardalis  <b>Shift work modifies the circadian cycle in nurses</b> Katerina Kastanioti, Dimitris Tziallas
17:30	<b>TRANSFER TO HOTELS</b>

## SATURDAY, 9 JULY 2005

HALL G. HANAN

- 08:00 – 09:00** PICK UP OF CONFERENCE PARTICIPANTS FROM HOTELS AND TRANSFER TO THE RESEARCH AND TRAINING INSTITUTE OF EAST AEGEAN (INEAG)
- 09:00 – 09:30** LECTURE  
**From Health Telematics to Telehealth**  
Rolf Engelbrecht, Hans Demski, Claudia Hildebrand, Gudrun Zahlmann
- 09:30 – 10:30** **8. HEALTHCARE SERVICES BASED ON TELEMATIC APPLICATIONS**  
Prof. Nikolaos Pallikarakis (MODERATOR)
- Telematic Integration for the Continuity of Care**  
R. Bedini, L. Guerriero, M. Dalle Luche, S. Dalmiani, C. Marchesi, A. Macerata, F. Beltrame, I. Porro, M. Bracale, S. Rinaldi, V. Rizzo, S. Polacci, M. Fruscione, M. Emdin and A. Belardinelli
- A Telematic System for Diabetes Management, Advisory, and Reporting**  
Dimitra Iliopoulou, Konstantinos Giokas, S. Mougiakakou, J. Stoitsis, A. Prentza, K. Nikita
- Wireless provision of interactive health telematics to interconnect medical institutions in rural environments during emergencies. Towards a virtual doctor**  
Konstantinos Kardaras, Nikos Apostolou, Konstantinos Perakis, Dimitrios Koutsouris
- Austral On-line Network for Medical Auditing and Teleassistance (ARGONAUTA)**  
Gustav Quade, Luis Beck, Franziska May
- The impact of distant education on plastic surgery physicians and residents.**  
Marianna Diomidous, Panagiotis Kyrgyzoglou, Pistoris Ioannis
- Architecture and implementation of a remote data card for the health care sector**  
Vasilios Karabelas, John Mantas, Ioannis Papoutsis
- 10:30 – 11:00** BREAK
- 11:00 – 12:00** **9. ADVANCES IN SENSOR AND IDENTIFICATION (Tagging) TECHNOLOGIES**  
Prof. Dimitrios Fotiadis (MODERATOR)
- 1. SENSOR TECHNOLOGIES**
- Wearable EMG Augmentation System for robust emotional understanding**  
Christos D. Katsis, George Ganiatsas and Dimitrios I. Fotiadis
- A Virtual Reality Intelligent Multi-Sensor Wearable System Phobias Treatment**  
Nikolaos S. Katertsidis and Dimitrios I. Fotiadis
- 2. IDENTIFICATION TECHNOLOGIES**
- A. Technologies to tag people and objects**
- RFID in a Hospital Environment**  
Panagiotis Kalagiakos, Ria Benou
- B. Technologies to tag datafiles**
- Digital Watermarking Perspectives in Health Information Management**  
Aggeliki Giakoumaki, Sotiris Pavlopoulos, Dimitrios Koutsouris

12:00 – 13:00	<b>10. ICT ADVANCES IN ANALYSIS AND EXCHANGE OF MEDICAL IMAGING DATA</b> Prof. Arie Hasman (MODERATOR)  <b>Modeling MS Lesion Objects for Medical Information Exchange</b> Tilmann Steinberg, Zhengyi Le, Yi Ouyang, Zhifeng Wang, (Prof.) Fillia Makedon, Heather Wishart, Andrew Saykin and Euripides Loukis  <b>Quality Improvement of Medical Imaging and Tele-Radiology Procedures Using Computer Simulation</b> Albert Guvenis, Yilmaz Ozan  <b>Development of Advanced Image Analysis Platform for the Detection of Pediatric DVTs</b> N. Apostolou, L. Theophilou, K. Kardaras, D. Koutsouris  <b>Advanced Platform for Lung Cancer Detection in Autofluorescence Bronchoscopy Images. Clinical Application at the “SOTIRIA” Hospital, Hellas</b> N. Apostolou, M. Haritou, N. Lolis, D. Beldekis, A. Rasidakis, Dimitrios Koutsouris
13:00 – 15:00	LUNCH
15:00 – 16:30	<b>11. ICTs IN SUPPORT OF MEDICAL DECISION MAKING, MANAGED CARE AND HEALTHCARE BEYOND HEALTHCARE INSTITUTIONS</b> Thomas Burkle (MODERATOR)  <b>Doc@Hand System. Knowledge sharing and Decision Support for Healthcare Professionals</b> Stelios Papagoergiou, Mikhail Simonov, Luca Sammartino  <b>Communication support for Managed Care</b> Ulrike Müller, Gert Funkat, Dirk Jaeckel, André Kaeding, Alfred Winter  <b>Knowledge modelling and knowledge representation in hospital information systems to improve drug safety</b> Reinhold Sojer, Thomas Bürkle, Manfred Criegee-Rieck, Antje Neubert, Kay Brune, Hans-Ulrich Prokosch  <b>Technologies of Smart Toilets for the Elderly and People with Disabilities: The Friendly Rest Room Project</b> Joseph Liaskos, John Mantas  <b>Specific Demands for User Centred System Design in Shared Home Care</b> Isabella Scandurra, Maria Hägglund, Sabine Koch  <b>Integrated Care Plan for Shared Home Care</b> Maria Hägglund, Isabella Scandurra, Sabine Koch  <b>European Policy and Operational Change</b> Maria Kapsali
16:30 – 17:30	CONFERENCE SYNOPSIS – CLOSING
17:30	TRANSFER TO HOTELS
20:30 – 21:00	PICK UP OF THE CONFERENCE PARTICIPANTS AT HOTELS
21:00 – 23:00	GREEK NIGHT
23:00	TRANSFER TO HOTELS

### TOUR OF SAMOS ISLAND

The participants will have the opportunity to visit the most important sights of the island such as:

the Archaeological Museum  
the Tunnel of Eupalinos  
the Heraion of Samos  
the Byzantine Monastery of Timios Stavros,

Karlovassi which is the second biggest city of the island, one of the wineries of the island, the Potami (River) area at the North Coast and Kokkari village one of the most romantic small ports.



### DAILY EXCURSION TO KUSADASI AND THE ANCIENT CITY OF EPHEBUS

Only 18 miles and a few minutes separate Samos from a totally different world, the world of East.

After the sort custom formalities (do not forget your passports!) we will go on board and we start our trip. The trip lasts 1 hour and 15 minutes and the boat is following a wonderful course in the virgin coasts of Samos and the small islands situated in the area. We arrive in the port of Kusadasi. Again after the sort custom formalities we are ready to meet the town with the low price market and also the ancient Ephesus.



#### **Kusadasi**

Kusadasi is the most tourist area of Turkey after Constantinoupolis. There is a market where you can find several sort of goods. Famous is the “bazaar of price”, never buy something at the original price, normally it costs half the money and you have to bargain before you pay. In shops in Kusadasi you can pay either in euro or with any other coin, credit cards are accepted.



#### **Excursion to Ancient Ephesus**

The tour to Ephesus is a great experience. After our arrival to Kusadasi we start with new air-condition buses and with official guide for Ephesus. The ancient town of Ephesus is located 19 km (20 minutes by bus) from Kusadasi. There we can admire the Temple of the Greek Goodness Artemis, the ancient Stadium, the Byzantine Baths, the Library of Celcius. Our visit to all the above will be through the Marble Street. After our visit to Ephesus we will go back to Kusadasi where we will have enough time for shopping or lunch. Departure from Kusadasi at 17:00 and the arrival on Samos island at 18:15.



**HELLENIC MINISTRY  
OF HEALTH AND SOCIAL WELFARE**



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Global network of innovation



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