Why Study
Informatics at UPH

Department of Informatics prepares and equips students not only to face challenges of rapid changes and progress in computer sciences and technology, but also to solve problems related to computing technology. Department of Informatics covers prospective fields of study, emphasized in Data Science, Artificial Intelligent, Software Engineering, Medical Informatics, and Intelligent & Interactive Applications.

UPH Informatics Study Program at a glance

REGULAR DEGREE
Sarjana Komputer (S.Kom.)

STUDY DURATION
3.5 years

At UPH's Informatics study program, students will explore:

Programming Logic
Develop intelligent and interactive applications and games tailored to the needs of the modern world.

Enhancing User Experiences (UX)
Utilize virtual and augmented reality technology to create immersive user experiences.

Innovative Problem Solving
Find solutions to computing and information processing problems using distinctive programming languages.

Cutting-Edge Application Development
Create leading-edge applications in frontier technology, leveraging Big Data, Artificial Intelligence (AI), and Cloud Technology.

Medical Informatics
Engage in an interdisciplinary study, integrating data, knowledge, and technology to provide IT solutions for healthcare technology development.
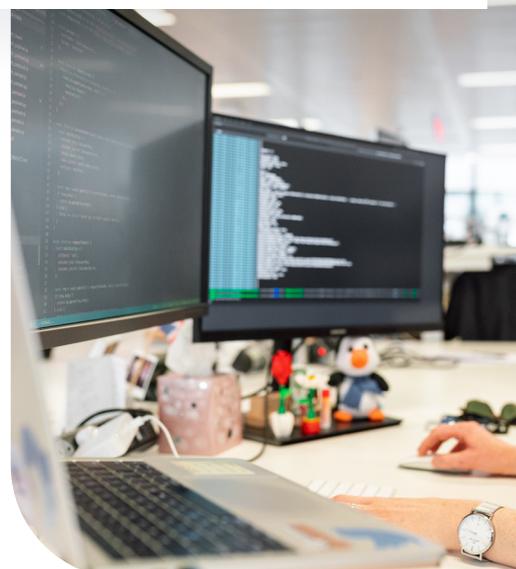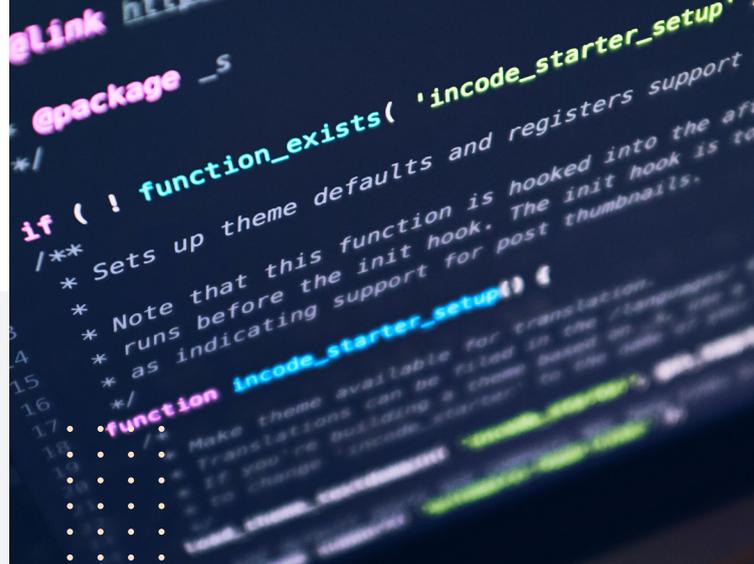
Areas of Specialization

Medical Informatics

Focus on improving the communication, analysis, knowledge, and management of medical information, integrating data, knowledge, and technology for effective and accurate medical decisions.

Software Engineering

Gain expertise in advanced software engineering techniques, including distinctive programming languages, big data management, distributed systems, cloud technology, web app development, and frontier technologies like the Internet of Things (IoT).

Computational Data Science

Develop skills in programming, computational statistics, large-scale data processing, data mining, data visualization, data analytics, and machine learning to address big data challenges.
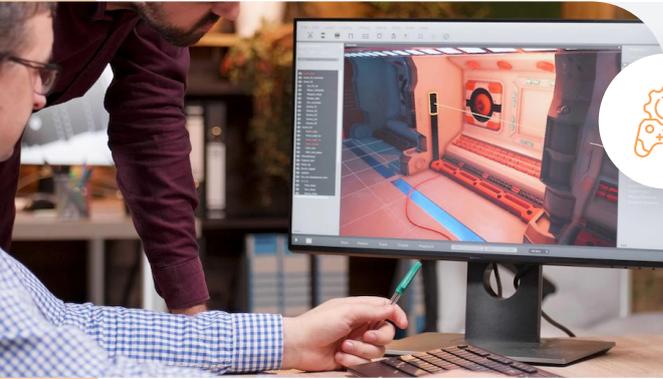
Intelligent & Interactive Application (Game Programming)

Acquire game programming logic and design skills, combining competencies in software engineering, computational intelligence, and user interface design.

Course Distribution
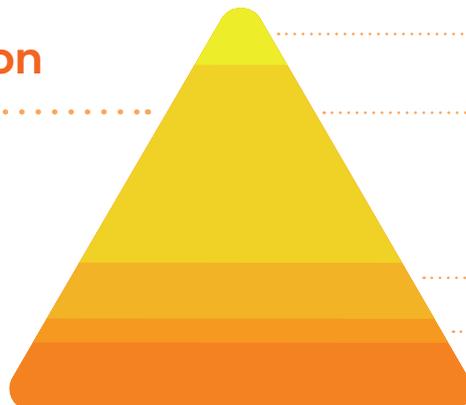
- **5%** Social/Community Issue & Impact
- **60%** Data Management, Software Development & the Application in Real World
- **10%** Virtual Machine
- **5%** Hardware World
- **20%** Algorithmic & Computer Science Foundation

Concentration Courses

MEDICAL INFORMATICS

- Image Processing for Medical
- Basic in Anatomy & Physiology
- Microcontroller
- Informatics in Cellular Communication
- Bio-signal Modeling & Simulation
- Health Management System

INTELLIGENT & INTERACTIVE APPLICATION

- Game Design Authoring & Scripting
- Math & Physics for Games
- Multiplayer & Networked Games
- Interactive Media Systems
- Game Theory & Probability
- User Experience

COMPUTATIONAL DATA SCIENCE

- Image Processing for Data Science
- Data Science for IoT
- Advanced Machine Learning
- Parallel Computation
- Natural Language Processing
- BlockChain Technology

Our Partners

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MATAHARI DEPARTMENT STORE Siloam Hospitals GTN LinkNet tokopedia

Career Opportunities

An Informatics graduate will be ready and able to start a career as a consultant, analyst, and developer in every area including commercial companies, game developer company, healthcare company or medical device manufacturer, research and education institution, and other computer related companies. There are also career opportunities as data scientists, data engineers, and data analysts in the current era of industry 5.0 and society 5.0.

Facilities

- General Computer Lab
- Multimedia Web and Game Development Lab
- Professional Development Center
- Programming Lab
- Virtual Lab
- Technopreneurship and Innovation Lab

UPH
UNIVERSITAS PELITA HARAPAN

SCHOOL OF
INFORMATION
SCIENCE & TECHNOLOGY

ISO 21001 CERTIFIED · IAS ACCREDITED Management Systems Certification Body MSCB 105 · GLOBAL Quality Approved ISO 9001 · JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER · UPH AKREDITASI UNGGUL

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