



1st STUDENT WORKSHOP ON MEDICAL ACQUISITION SYSTEMS



UNIVERSITÀ
POLITECNICA
DELLE MARCHE



BR3IN

TOWARD THE HARDWARE FOR IMPLEMENTING AN ELECTROCARDIOGRAPH



JUNE 3RD-4TH, 2024

ORGANIZERS:

Dr.ssa Agnese Sbröllini
Prof.ssa Laura Burattini
Prof. Ennio Gambi
Dr.ssa Noemi Giordano
MHD Jafar Mortada



AULA POLIFUNZIONALE FACOLTÀ DI INGEGNERIA
UNIVERSITÀ POLITECNICA DELLE MARCHE

Are you a Master Degree student of UNIVPM? JOIN US!

This workshop aims to explore the design, development, and implementation of medical instrumentation, specifically focused on ECG processing. Best projects and winners of the “Cognitive Computation in Physiology and Medicine” Hackathons will be awarded during the closing ceremony. For subscription open the QR-code or contact Dr.ssa Agnese Sbröllini, a.sbröllini@staff.univpm.it.



MONDAY JUNE 3RD 2024

Sponsored by



10.00-10.30: **Welcome** – Dr.ssa Agnese Sbröllini

10.30-11.30: **Digital Electrocardiography: from Physiology to Signal Processing** -
Prof.ssa Laura Burattini

11.30-12.30: **Hardware Implementation of ECG** -
Prof. Ennio Gambi

12.30-13.00: **Introduction to Hands-on-Hardware**
Dr.ssa Agnese Sbröllini

14.30-18.30: **Hands-on-Hardware: How to acquire and filter an ECG?** - Mr. MHD Jafar Mortada
with G. Bruschi, M. Scattolini, A. Nocera, R. Mobarak, L. Del Giudice, M. Raimondi, E. Iammarino, L. Goffi, I. Bolognini

TUESDAY JUNE 4TH 2024

9.00-10.00: **Let's Have Breakfast Together!!!**

10.00-11.00: **Hands-on-Hardware: Project Presentation by Students** –
Award Committee: L. Burattini, E. Gambi, F. Verdini, M. Morettini, A. Mengarelli, A. Tigrini, I. Marcantoni, A. Piersanti

11.00-12.00: **Beyond the prototype: from the laboratory to the clinical practice**
Dr.ssa Noemi Giordano

12.00-13.00: **Award Ceremony and Closing**



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