Name: School year:
Group: GM, DM Date of measurement:

Report

Topic: Electrocardiography I

Exercise:

a) Monitor and record an ECG from 12 leads of your schoolmate.
b) For the instantaneous values of potential in QRS complex check the validity of following relations: $U_{II} = U_I + U_{III}$ ($U_I = U_L - U_R$, $U_{II} = U_F - U_R$, $U_{III} = U_F - U_L$).
c) Construct and evaluate the mean electrical axis of the QRS complex.

Instrumentation: electrocardiograph ECG Praktik, ECG gel.
Procedure: According to the manual.

Measured and calculated values:

	Q [mV]	**R [mV]**	**S [mV]**	**U [mV]**
I				
II				
III				

Sensitivity:

$U_I = U_{Q_I} + U_{R_I} + U_{S_I} =$ **[mV]**

$U_{II} = U_{Q_{II}} + U_{R_{II}} + U_{S_{II}} =$ **[mV]**

$U_{III} = U_{Q_{III}} + U_{R_{III}} + U_{S_{III}} =$ **[mV]**

U_{II} = **[mV]**

$U_I + U_{III}$ = **[mV]**

Construction of the mean electrical axis of QRS complex (graph paper).

Read from the table of ECG: **QRS=**
Einthoven´s read from a triangle: **QRS=**

Conclusions and commentary: