

# MLSS<sup>N</sup>

27.06 - 02.07.2022  
Kraków Poland

## Useful Links:

- Event Website:  
<https://mlss.mlinpl.org/>

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## Agenda:

TIME	MONDAY 27.06.2022	TUESDAY 28.06.2022	WEDNESDAY 29.06.2022	THURSDAY 30.06.2022	FRIDAY 1.07.2022	SATURDAY 2.07.2022
7:30-8:45	<b>Registration</b>					
8:45-9:00	<b>Opening of the summer school</b>					
9:00-10:30	<b>Razvan Pascanu</b> Learning Dynamics for Deep Learning	<b>Andrew Saxe</b> A theory of representation learning in complex architectures	<b>Joao Sacramento</b> Bilevel optimization problems in neuroscience and machine learning	<b>Ondrej Dusek</b> Neural Conversational AI	<b>Vincent Lepetit</b> Self-learning for 3D scene understanding	<b>Piotr Miłoś</b> A robot that always wants to learn - continual learning in control
10:30-10:45	<b>Coffee break</b>					
10:45-12:15	<b>Razvan Pascanu</b> Learning Dynamics for Deep Learning	<b>Andrew Saxe</b> A theory of representation learning in complex architectures	<b>Joao Sacramento</b> Bilevel optimization problems in neuroscience and machine learning	<b>Ondrej Dusek</b> Neural Conversational AI	<b>Vincent Lepetit</b> Self-learning for 3D scene understanding	<b>Jan Chorowski</b> Discovering structure in messy data
12:15-13:15	<b>Lunch break</b>					
13:15-14:45	<b>Rianne van den Berg</b> Generative modeling and lossless source compression	<b>Ewa Szczurek</b> Variational autoencoders and their applications in medicine	<b>Andrea Tagliasacchi</b> Neural fields beyond novel view synthesis	<b>Friedemann Zenke</b> Information processing with artificial spiking neural networks	<b>Agnieszka Grabska-Barwińska</b> How to train deep networks in the brain?	<b>Szymon Łęski</b> AI in ecommerce search
14:45-15:00	<b>Coffee break</b>					
15:00-17:00	<b>Rafał Bogacz</b> Predictive coding: Biological learning beyond back-propagation	<b>Joao Henriques</b> An introduction to causality for ML practitioners	<b>Poster Session</b>	<b>Farah Shamout</b> Towards improved health by learning from diverse real-world medical data	<b>Maciej Zięba</b> Normalizing flows - interesting applications beyond the image generation	<b>Tomasz Trzciński</b> Deep generative view on continual learning
18.00+	<b>Intro get-together</b>				<b>Goodbye party</b>	



The project, whose goal is to internationalize the Jagiellonian University of Cracow in the fields of machine learning and neurobiology through the implementation of a series of summer schools, is carried out under the SPINAKER program financed by the National Agency for Academic Exchange (NAWA).



Projekt, którego celem jest umiędzynarodowienie Uniwersytetu Jagiellońskiego w obszarach uczenia maszynowego oraz neurobiologii poprzez realizację cyklu intensywnych warsztatów w ramach szkół letnich, realizowany jest w ramach programu SPINAKER finansowanego przez Narodową Agencję Wymiany Akademickiej (NAWA).



## Coming to Kraków: Tips

## 2.1. Campus Location

Faculty of Management and Social Communication,  
Jagiellonian University,  
ul. prof. Łojasiewicza 4  
30-348, Kraków

The school venue is part of the complex of the 600th Anniversary of the Jagiellonian University Revival Campus. Yes, Jagiellonian University is more than 600 years old. It is the oldest university in Poland.

## 2.2. Accommodation Tips:

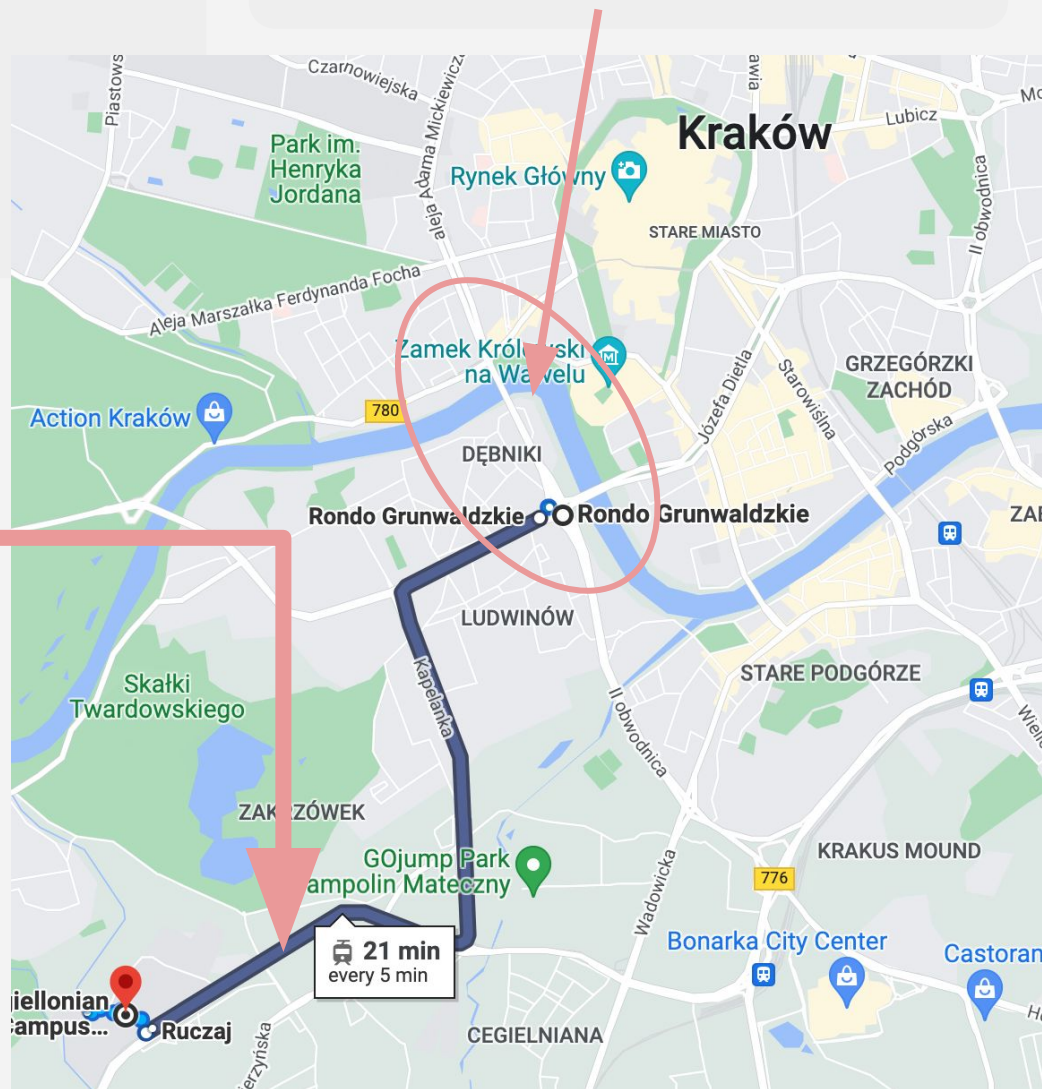
The best trade-off between staying close to the city center (a great tourist destination) and the school venue is to select an accommodation near the **“ICE Congress Centre”** or the **“Grunwald Roundabout”**.

## Note:

If you like to see how the Campus looks like, you can do a virtual walk here:

<https://uj.wkraj.pl/html5/index.php?id=48942#/48942/>

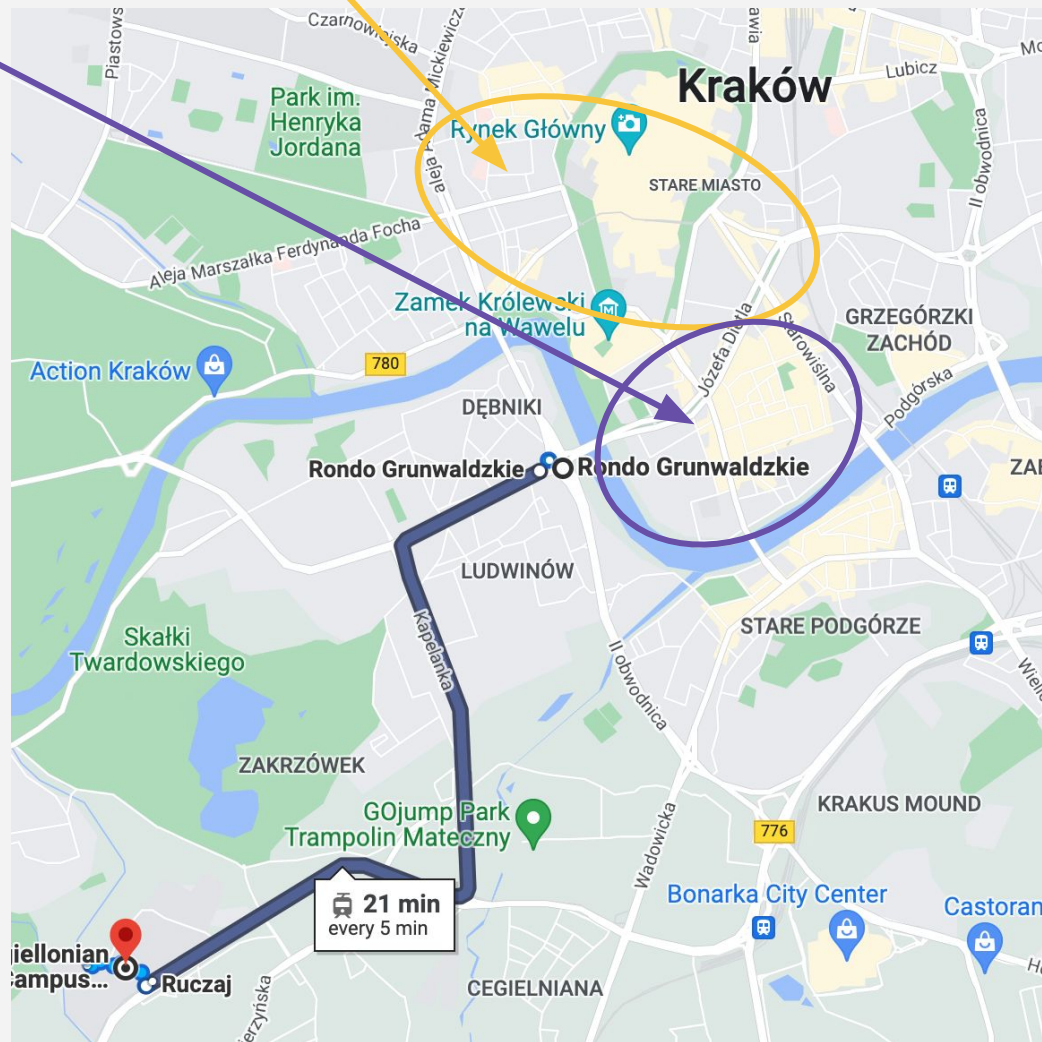
For a map of the campus click [here](#). You can also check out the “The Venue in Pictures” section at the end of this file.



## Coming to Kraków: Tips

### 2.2. Accommodation Tips:

If you do not mind additional commuting time (around 30 minutes to school venue), you can also consider the **Old Town**, or **Kazimierz** Districts. Note though, that they are both common tourist destinations during June/July.



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## Coming to Kraków: Tips

## 2.3. Public Transport:

If you are staying near the **“ICE Congress Centre”** or the **“Grunwald Roundabout”**, take the tram stop called **“Rondo Grunwaldzkie”** (Grunwald Roundabout) in the direction of **“Czerwone Maki”**. Then get off at the **“Ruczaj”** station. The connection is presented in the picture.

Direct Lines:

Trams: **52, 73**

Bus: **194**

**Tickets:** You can buy the tickets in a machine in the tram/bus, or at the bus stop. You can also use a mobile app: <https://www.skycash.com/>. Validate the ticket right after entering the tram/bus.

One “60 minute or single trip” ticket is around:

**6PLN** - Normal Ticket

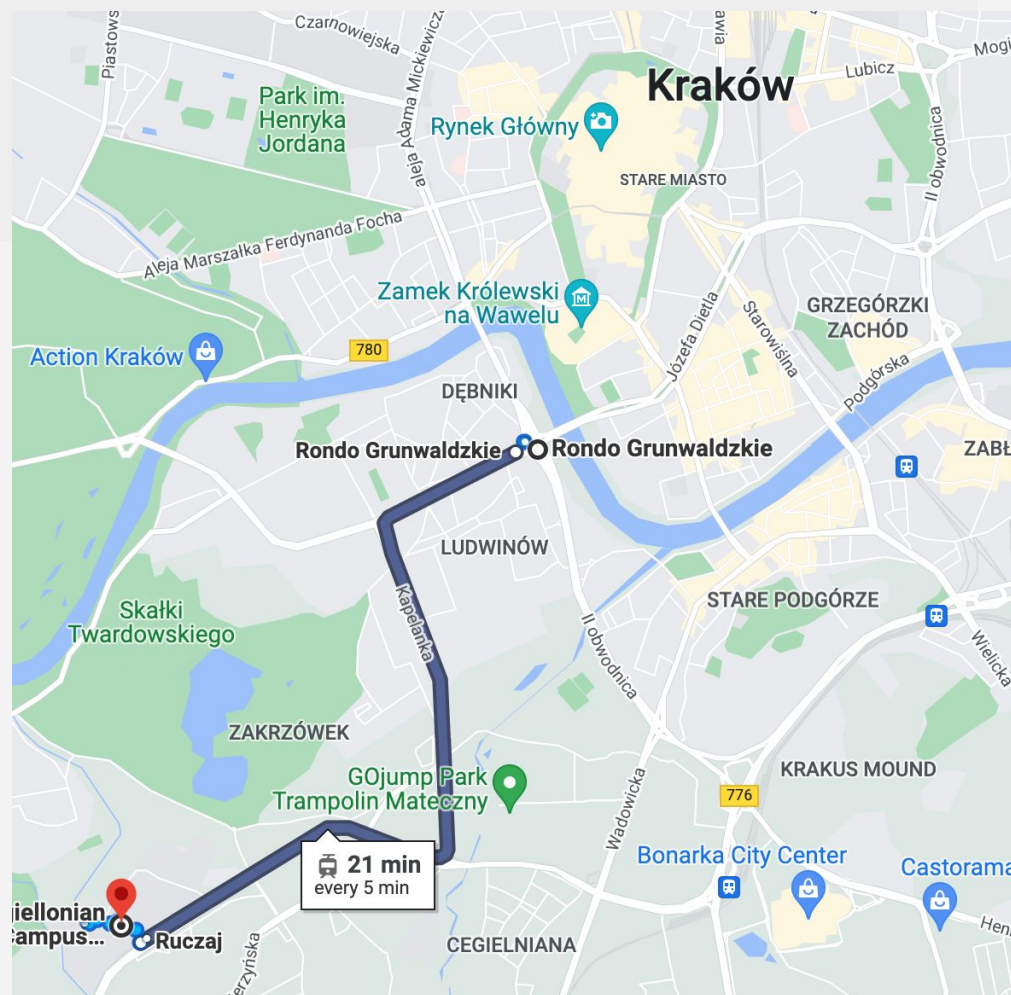
**3PLN** - Student Ticket,

You can check the prices [here](#).

**Note:**

If you plan to use discount tickets, be sure to carry with you a valid International Student Identity Card (ISCD) + some **Personal ID** with birth date and Photo.

Typically, the trams in Kraków are faster and less crowded than the busses,



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## Coming to Kraków: Tips

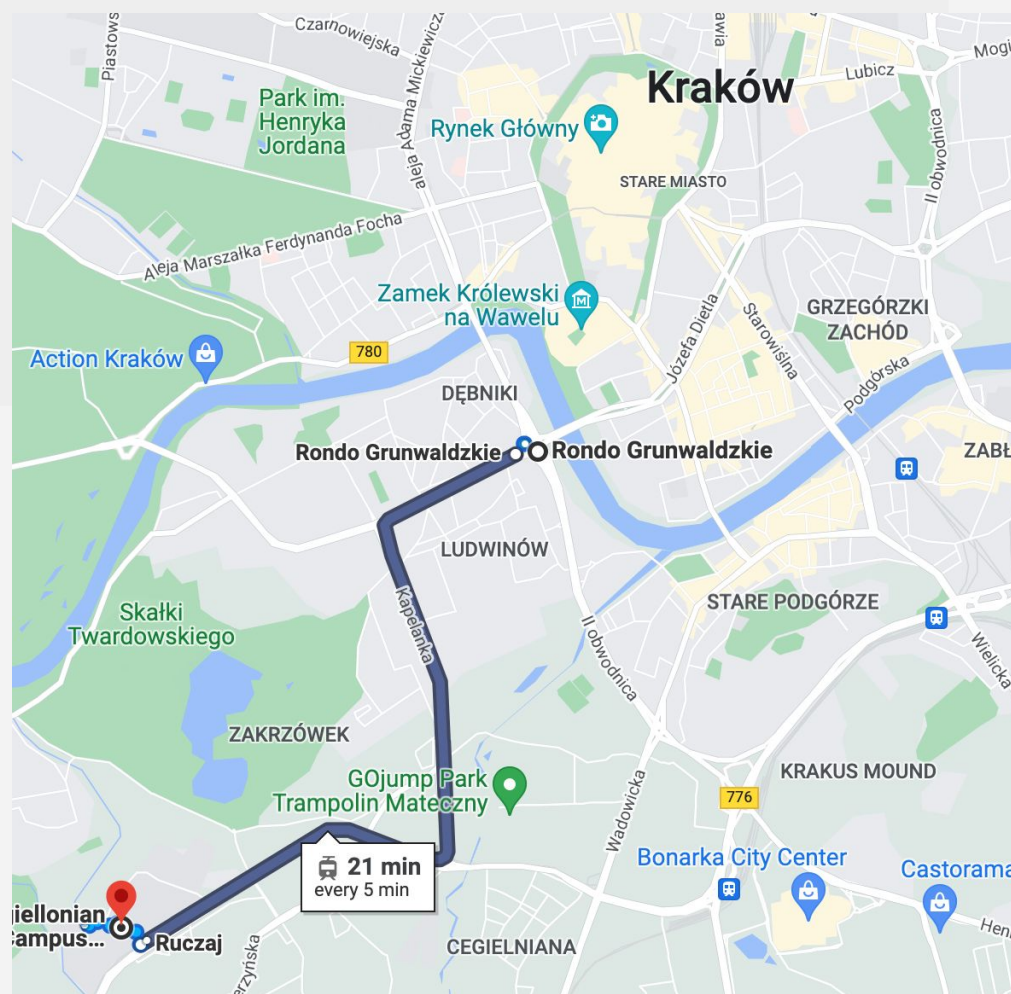
## 2.3. Public Transport:

If you are staying near the **Old Town**, or **Kazimierz** Districts either:

1. Walk to nearest bus/tram station and take any bus/tram that goes to “Rondo Grunwaldzkie” or “ICE Congress Centre”
2. Next, at “Rondo Grunwaldzkie” take tram 52 or 73 in the direction of “Czerwone Maki”
3. Get off at Ruczaj stop.

Or:

1. If you are in the **Kazimierz** District:  
walk to the nearest tram station for the line **52**.
2. If you are in the **Old Town**,  
walk to the nearest tram station for the line **73**



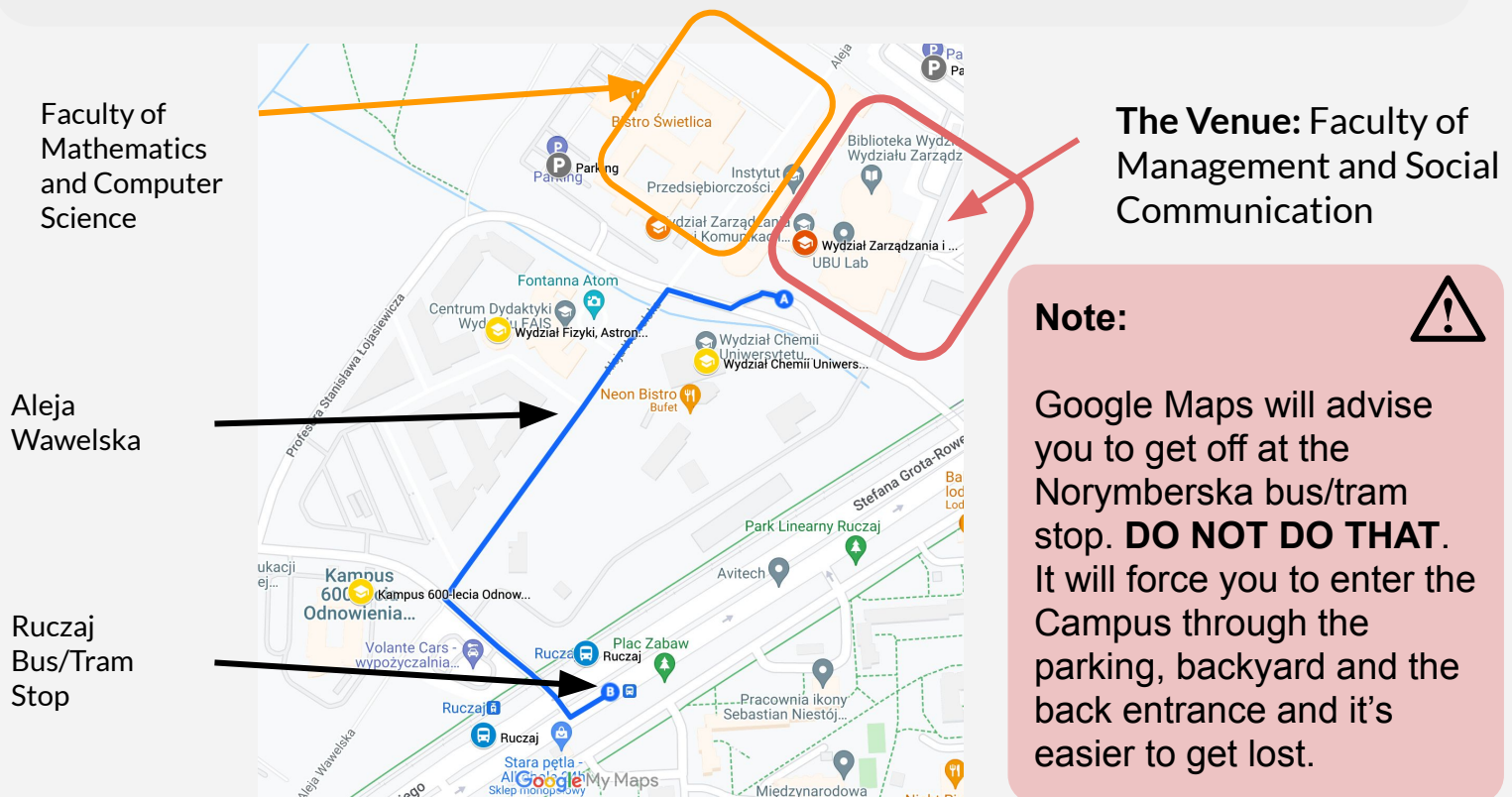
## Coming to Kraków: Tips

### 2.3. Public Transport:

#### After Getting off at the Ruczaj Bus/Tram stop:

1. Make sure to get off at the **Ruczaj** Bus/Tram stop.
2. Then enter the Campus, turn right to the “Aleja Wawelska” and walk, until you will reach the Faculty of Mathematics and Computer Science on the left, and the Faculty of Management and Social Communication on the right (about 3-5 minutes)
3. Turn right and enter the Faculty of Management and Social Communication.
4. Go to lecture hall **0.103**

See the image below





## Coming to Kraków: Tips

## 2.3. Public Transport:

## From Airport to City Centre:

If available, take the **SKA1 train** from Kraków Airport to the Main Train Station. You can access the schedule here:

<https://www.kolejmalopolskie.com.pl/en/home-page>

By selecting “Kraków Lotnisko” for the airport, and “Kraków Główny” for the Main Train Station

The ticket costs **14 PLN**.

You can buy the ticket at:

- The above website, after hitting “Find Connection” and selecting the desired connection.
- At the airport train station, using a ticket machine.
- From the conductor, but only with cash!

The location of the train station at the airport:

<https://goo.gl/maps/WwfpGdcy82RcYpLE6>

**Note:** Do not check the **train** connection with using Google Maps. The information is not up to date.



Alternatively, you can take the **bus**. You can take either:

- [The 208 bus to Main Train Station \(will be called “Dworzec Główny Wschód”\)](#)
- [The 300 bus to the Grunwald Roundabout \(will be called “Rondo Grunwaldzkie”\)](#)



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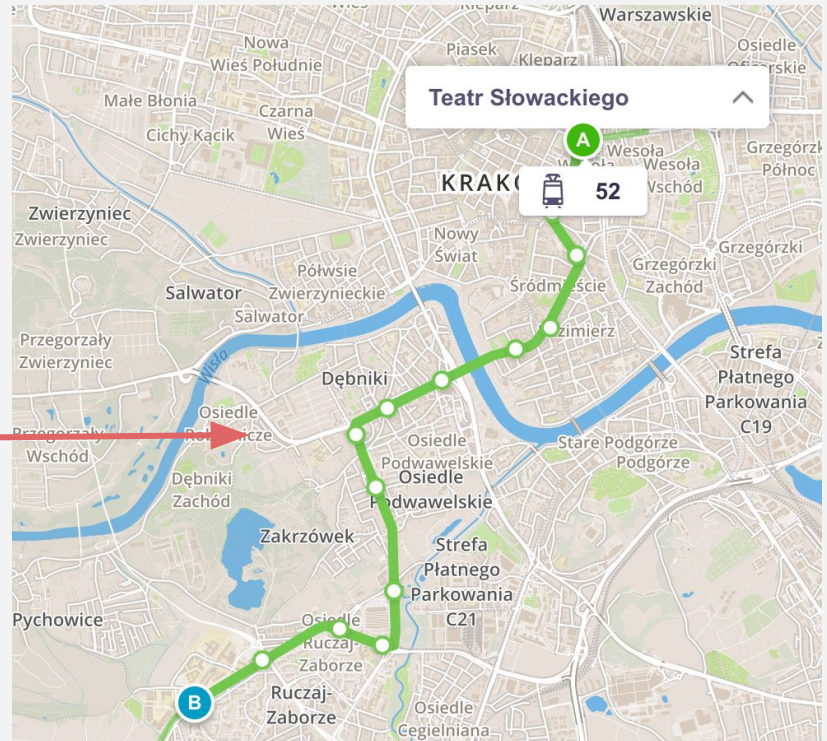


## Coming to Kraków: Tips

### 2.3. Public Transport:

#### From Main Train Station to The Campus

1. Walk to the "Teatr Słowackiego" (Słowacki Theatre) Tram Stop.
2. Take the 52 tram in the direction "Czerwone Maki"
3. Get off at the "Ruczaj" stop.



#### Note:



Avoid the privately operating buses. They may be more crowded and require additional tickets. Use only the City's lines (called **MPK**). In Google Maps you can recognize them by having a connection number, instead of a direction name.

A connection operated by the City

	5:04 PM—5:44 PM	40 min
	>  73 >	
	5:07 PM—5:49 PM	42 min
	>  Kraków-Jordanów	
	Kraków-Mszana Dolna / Kraków-Rabka >  11	
	17 >	

A connection that uses private buses (note the names of the destinations) and with a transfer to a City-operated trams.

You may want to use the [jakdojade](#) app (web-based or mobile) as an alternative for the bus and tram connections found by Google.

For the train always use the [Koleje Małopolskie website](#) to check the most up-to date connections.



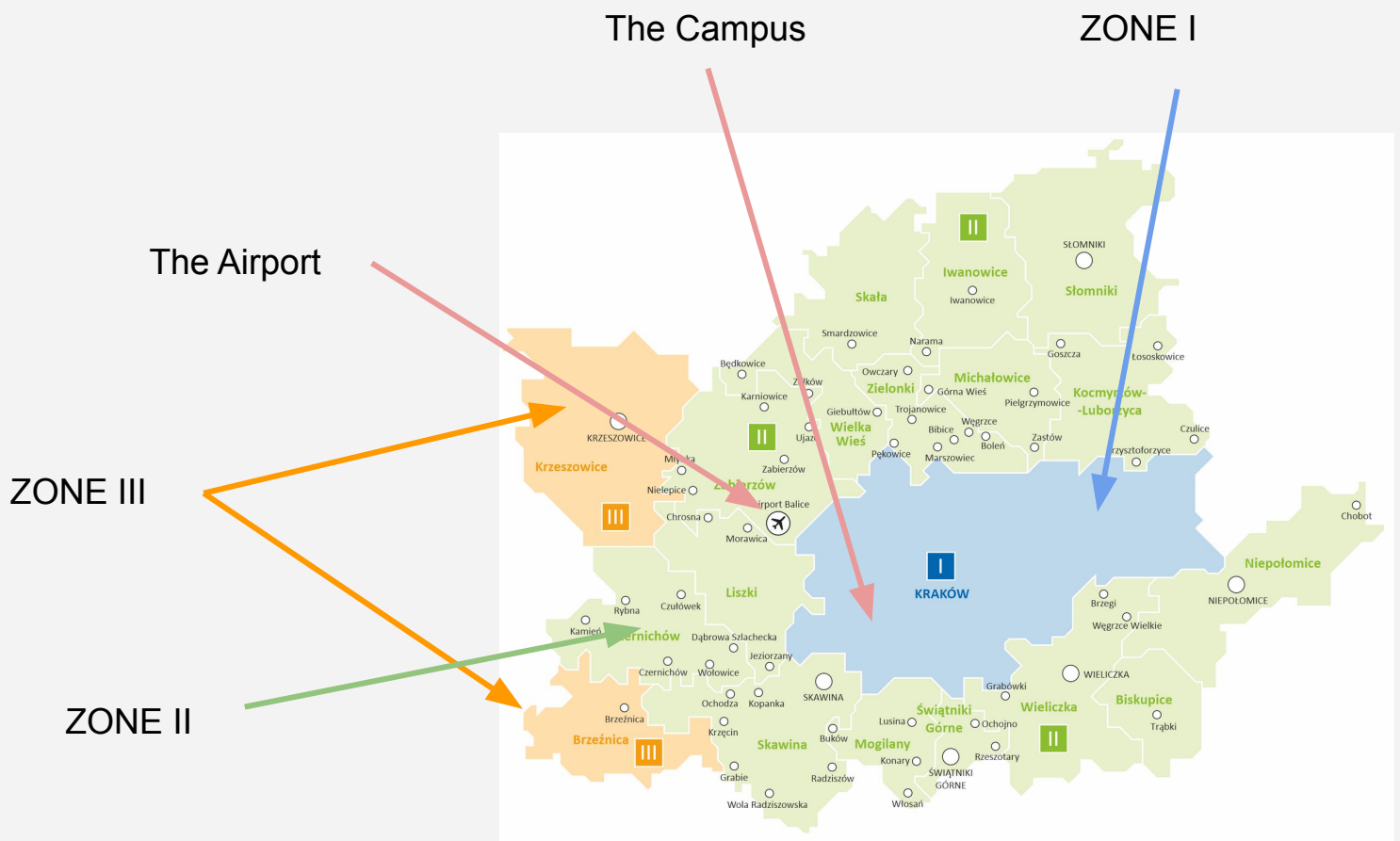
## Coming to Kraków: Tips

## 2.3. Public Transport:

## Ticket Zones and Transit

Having bought the “60 minute or single trip” ticket, you do not need to buy another one if you are transiting to another bus/tram, as long as your total trip time does not exceed 60 minutes. Validate the ticket **only once**.

The ticket is valid for all [ticket zones](#). The Airport is in zone II. The Campus is in zone I. In general, you probably won't be traveling to zone III :D.



## Coming to Kraków: Tips

## 2.4. Uber/Bolt/Taxi:

## ● Uber/Bolt

- It will take around 15-30 minutes to [get from the airport to the campus](#). Prices vary depending on the demand within the range of 25–75 PLN.
- It takes ca. 20–40 min to [get to the City](#)

## ● Taxi

- The Kraków Airport offers official taxi service.
- You can take the taxi in front of the Airport or [book it online in advance](#).
- It should cost you ca. 90–100 PLN, depending on where your accommodation is ([in this Airport Taxi Service world, the Kraków Old Town lies in “Zone 4”](#)).

**NOTE:** The routes above assume you will be traveling by the **highway**, not through the city.

In addition, the City of Cracow can have pretty bad traffic jams around 8-10 A.M. and 4-6 P.M. **Even the highway gets jammed** in the afternoon. Therefore always check the current traffic to estimate the time required for the travel. Take that information also into consideration when traveling back to the airport.



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Association

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bioNN

European Union  
European Social Fund



## Coming to Kraków: Tips

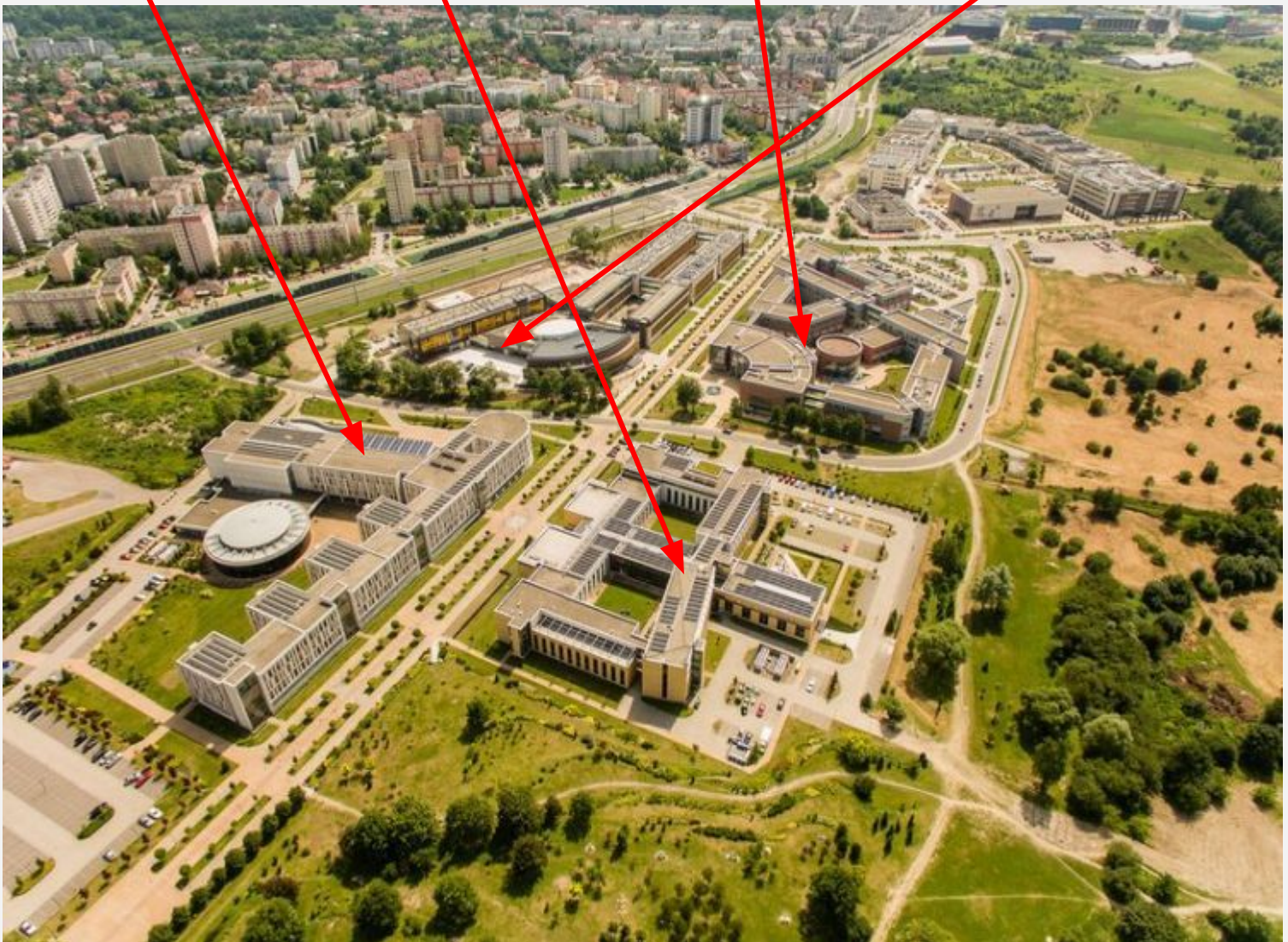
### 3. The Venue in Pictures

**The Venue:** Faculty of Management and Social Communication. Lecture Hall 0.103

Faculty of Mathematics and Computer Science. The home of the GMUM Group :D

Faculty of Physics, Astronomy and Applied Computer Science, in case you were wondering. Nice library.

Faculty of Chemistry, The newest addition to the Campus



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## Coming to Kraków: Tips

### 3. The Venue in Pictures

“Aleja Wawelska”  
(The Wawel Avenue)

The “Ruczaj”  
Bus/Tram Stop. Get  
off here.

The “Kampus UJ” Bus/Tram  
stop. If you happen to  
accidentally get off at this  
stop, just enter the Campus  
and walk along the “Aleja  
Wawelska”

Faculty of Biology,  
other campus  
buildings.



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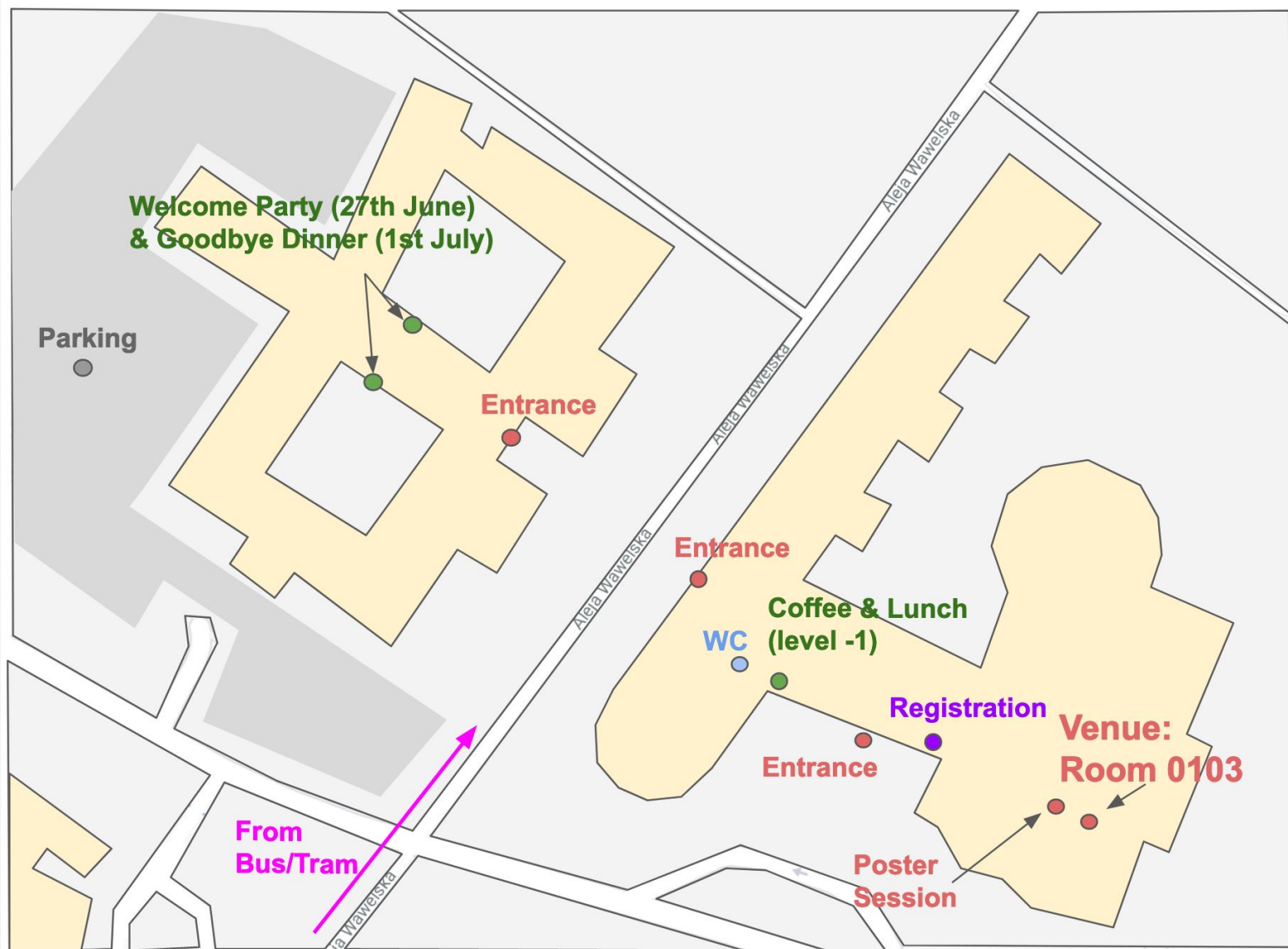
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## 4. Map



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