

Erasmus+ Staff Teaching Mobility Programme (Outbound)

❖ Middle East Technical University
(METU), Ankara, Turkey

❖ 6 – 13 March 2020



- 
- 1 BEFORE**
 - Proposal
 - Mobility Agreement
 - Grant Payment Procedures and Requirements
 - Documents To Be Submitted

- 2 DURING**
 - 6 – 13 March 2020

- 3 AFTER**
 - Report

14 October 2019

The Mobility Teaching Proposal submitted to Math Department at METU.

29 August 2019

Call for Proposal.

27 December 2019

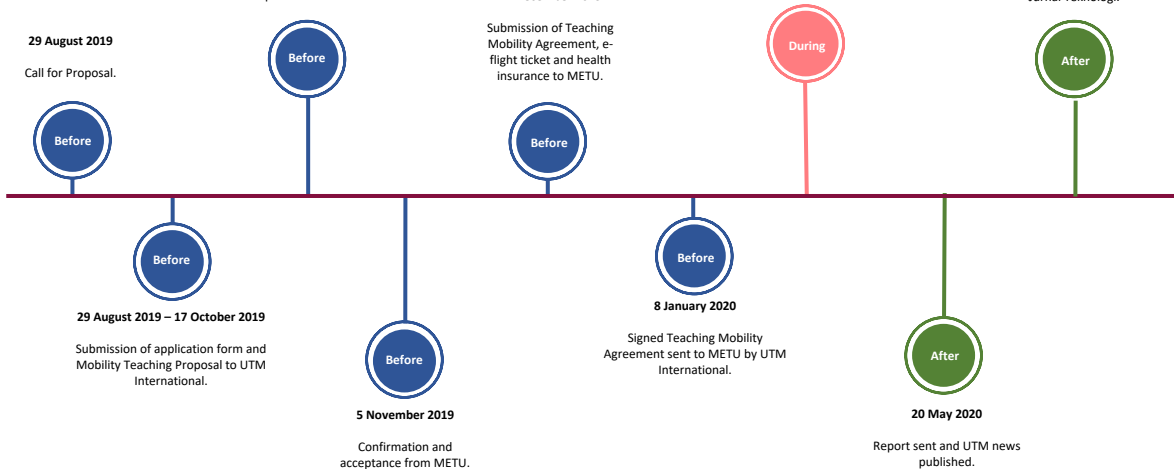
Submission of Teaching Mobility Agreement, e-flight ticket and health insurance to METU.

6 March 2020 – 13 March 2020

Teaching Mobility Period

August 2021

Research paper submitted to Jurnal Teknologi.



Mobility Agreement


 Higher Education
 Mobility Agreement Form
 New National Scheme


Mobility Agreement Staff Mobility For Teaching¹

 Planned period of the teaching activity: from **10/05/2020** to **11/05/2020**

 Duration (days) – excluding travel days: **5 days**

The teaching staff member

Last name (s)	SARMEN	First name (s)	NOR HANIZA
Sociality ¹	SENIOR	Nationality ¹	MALAYSIAN
Sex (M/F)	F	Academic year ¹	2019/2020
E-mail	nhn@utm.my		

The Sending Institution/Enterprise²

Name	UNIVERSITI TEKNOLOGI MALAYSIA		
Erasmus code ¹ (if applicable)	952922242	Faculty/Department	DEPT OF MATH SCIENCES, FACULTY SCIENCE
Address	UTM JALOR ANHILL, 50000	Country/ Country code ³	MALAYSIA / MY
Contact person name and position	DR FARHANA DINWA UTM ERASMUS+ COORDINATOR	Contact person e-mail / phone	dfarh@utm.my +60182087678
		Size of enterprise (if applicable)	NA

The Receiving Institution

Name	NEGE UYI YICHTIAI UNIVERSITY	Faculty/Department	DEPARTMENT OF MATHEMATICS
Erasmus code ¹ (if applicable)	TR ANKARAD4		
Address	Okurkutan Mah. Çarşıkapı Bld. No: 05000 Çarşıkapı Ankara/TURKEY	Country/ Country code	TR
Contact person name and position	Burcu Akpınar International Coordinator Office	Contact person e-mail / phone	akp@negeuyi.ac.tr 0312 259 7338

For guidelines, please look at the end notes on page 4.


 Higher Education
 Mobility Agreement Form
 New National Scheme


II. COMMITMENT OF THE THREE PARTIES

By signing this instrument, the teaching staff member, the sending institution/enterprise and the receiving institution/enterprise that they approve proposed mobility activities.

The sending higher education institution supports the staff mobility as part of its implementation and development strategy and will recognize it as a component in an evaluation of assessment of the teaching staff member.

The receiving staff member will share relevant experience, in particular acquired as part of professional development and in the sending institution/enterprise, as a result of mobility in Turkey.

The teaching staff member and the beneficiary institution commit to the requirements set out in the grant agreement signed between them.

The teaching staff member and the receiving institution will communicate to the sending institution/enterprise any problems or changes regarding the proposed mobility programme or mobility period.

The teaching staff member

 Name: **Prof Dr Nor Haniza Sarmen**

 Signature: 

 Date: **25 Dec 2019**

The sending institution/enterprise

 Name of the responsible person: **Dr Farhana Diana Denis**

 Signature: 

 DR FARHANA DIANA DENIS
 Erasmus+ Programme Coordinator
 UTM International
 University Technology Malaysia
 50000 JALOR ANHILL
 JALOR MALAYSIA

 Date: **8 Jan 2020**

The receiving institution

 Name of the responsible person: **Prof. Dr. Murat Güneşli**

 Signature: 

 Date: **25 Dec 2019**

* Annotations of this template:

- 1. In case the mobility combines teaching and training activities, this template should be used and adapted to fit both activity types.
- 2. In the case of mobility between Programme and Partner Countries, the agreement must be signed by the staff member, the Programme Country HEI or beneficiary and the Partner Country HEI (three signatures in total).

Grant Payment Procedures and Requirements

1. Upon arrival at METU, to get a Turkish tax number.
 - Need to go to Mithatpasa Tax Office in Central Ankara.
2. Duration of mobility.
 - Teaching program must be minimum of 5 days and minimum of 8 hours.
 - Travel should be arranged in the days other than the teaching mobility program.
3. Submit health insurance document, valid in Turkey during the visit.
4. Get an orientation package which includes the map of METU campus and accommodation.
 - Stay at METU Guesthouse on campus.

1. On arrival at METU, need to sign a grant contract.
 - Received 70% (in cash) of the total financial support on the first day of teaching program.
 - 30% on the last day of the mobility.
2. Submit the flight tickets + boarding passes.
3. Compulsory to have a valid health insurance in Turkey with sufficient coverage.
 - METU is not liable for the costs incurred by medication or hospitalization related to the mobility activity.

Grant Amount:

5 days individual support + 2 days "travel days support"
[7 days X 140 Euros = 980 Euros]

Travel grant (one time, according to the distance)=1500 Euros

TOTAL Grant: Euro 2480

Documents To Be Submitted



Application form



Mobility Teaching Proposal



Mobility Agreement

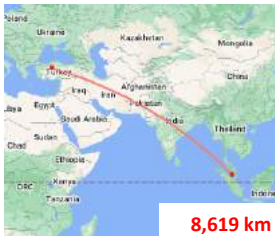


Electronic copy of plane ticket



Health insurance

Travelling Day :- 6 March 2020 (Friday)



(5 pm)

Check-in Senai airport

1. MH1058 S 06MAR 5 JHBKUL HK1
1915 2005 06MAR E MH/R9X565
2. MH4271 Q 06MAR 5 KULIST HK1
2340 0620 07MAR E MH/R9X565
3. MH4288 Q 07MAR 6 ISTESB HK1
0800 0920 07MAR E MH/R9X565

50 min + 11:40 hours + 1:20 hours

Day 1 :- 7 March 2020 (Saturday)



(9:20 am)

- Arrived Ankara Airport.
- Greeted by Mr. Hikmat.
 - (he came to UTM in February 2020 for his Staff Mobility Programme [Inbound] under Erasmus+).
- Checked-in METU Guest House which is located on campus.

(12 - 2 pm)

- Had a meeting with Mohamad Arab.
 - (UTM Outbound Student to METU under the Erasmus+ Programme).
- Accompanied me for campus tour.

Day 1 :- 7 March 2020 (Saturday)



(3:00 - 5:00 pm)

- Had a campus walk and a lunch meeting with Prof. Mahmut Kuzucuoğlu and his wife Prof. Fareda.
- Prof. Mahmut is a Mathematics Professor in METU.
- Prof. Fareda is a Mathematics Professor in Hacettepe University.



(10 am)

- Meeting with Chenar Abdulla.
(a Master student in METU)
- Discussion on research and publication.



(12 pm)

- Meeting with Mr. Mehmet Ozeren.
(Manager of METU's dormitories)

(4 – 7 pm)

Tour around Ankara



Day 3 :- 9 March 2020 (Monday)



(10:00 am)

Meeting with Dr. Betul Bulut Sahin at METU International Office (**METU Erasmus+ Coordinator**).



(10:30 am – 12:30 pm)

- Met Prof. Leila Miller from International University of Sarajevo, Bosnia Herzegovina. (**Visiting Professor under the Erasmus+ Teaching Staff Mobility programme**).
- Went to the Tax Office.

Day 3 :- 9 March 2020 (Monday)



2:00 – 3:00 pm

- Meeting with Dr. Gokhan Benli.
**(Mathematics Department
Erasmus+ Coordinator)**
- Responsible for arranging my teaching appointments while at METU.



(3:40 – 5:40 pm)

- First lecture titled 'Introduction to Graphs of Groups'.
- Started with an ice-breaking session with those who were present.
- Shared a brief introduction about UTM.

Day 4 :- 10 March 2020 (Tuesday)



(Morning)

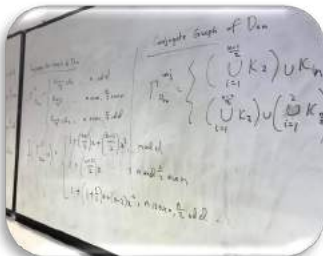
Research discussion with Mr. Nazmi (Research Assistant from Mathematics Department at METU)



(3:40 - 5:40 pm)

Second lecture titled 'On Energy and Laplacian Energy of Graphs Associated with Groups'.

Day 5 :- 11 March 2020 (Wednesday)



(3:40 - 5:40 pm)

- Third lecture and also discussed more materials on 'The Energy of Graphs' and 'The Graph Polynomials'
- Discussion with some Pure Mathematics professors and researchers.

(7:45 - 9:00 pm)

Dinner and discussion with Nur Arina and Mohamed Arab from UTP and UTM, respectively.

(exchange students at METU under the Erasmus+ scholarship)

Day 6 :- 12 March 2020 (Thursday)



(1 - 2 pm)

Lunch meeting and research discussion with Prof. Mahmut.



(2:30 - 3:30 pm)

Attended a weekly seminar at the Mathematics Department.



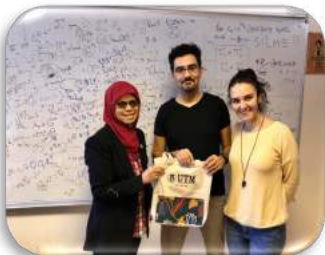
(3:40 - 5:40 pm)

Fourth class at METU on the topic 'Topological Indices of Graphs Associated to Groups'.

Day 7 :- 13 March 2020 (Friday)



Meeting with staff from International Office, Erasmus+ Coordinator in the Mathematics Department, and some professors at METU.



Travelling Day :- 14 March 2020 (Saturday)



(10 am - 2 pm)
Half-day tour of Ankara City





(4 pm)

Check-in airport

QR 258 14MAR ESBDOH 2040

0025 15MAR

MH9055 15MAR DOHKUL

0310 1530 15MAR

MH1063 15MAR KULJHB 2145

2240 15MAR

4 hours + 7 hours + 50 min



UTM Professor Visits METU for Erasmus+ Staff Teaching Mobility Programme

NEWS

- MJIT Organized OGC with Universitas Sebelas Maret (UNS) and Universitas Gadjah Mada, Indonesia
- UTM Participated in The 2021 Asia-Oceania Five Universities Alliance (AOFUA) Summer Camp Program by De La Salle University
- UTM Collaborates with Global Education: Exchange of Engineers and Entrepreneurs for Ge4 2021 Global Education Summit
- UTM and Universitas Islam Riau Collaborates on Waste Management Research
- Grab Your Audience Attention: How do you get people to listen to you?
- Promoting Trans Disciplinary Research via Bionanotechnology Research Seminar (BioNanoSem2021)
- Jalinan Kerjasama Universiti-Industri UTM-CEP-Uniqconsult

ON THE NON-COMMUTING GRAPH OF GROUP U_n

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Graphical abstract



Abstract

A non-commuting graph of a finite group G is a graph whose vertices are non-central elements of G and two vertices are adjacent if they don't commute in G . In this paper, we study the non-commuting graph of the group U_n and explore some of its properties including the independence number, clique and chromatic numbers. Also, the general formula of the resolving polynomials of the non-commuting graph of the group U_n are provided. Furthermore, we find the degree rules, eccentric connectivity, total eccentricity and independence polynomials of the graph.

Keywords: non-commuting graph, independence number, chromatic number, clique number, resolving polynomials of a graph.

Abstrak

Pengumpulan maklumat mengenai aliran trafik adalah penting bagi membangunkan sistem jalan raya yang berkeluasan tinggi. Pada masa ini, sistem telah digunakan untuk pembangunan. Oleh itu, sendirian, video tanpa pemandu (AVI) atau "quadcopter" digunakan untuk pengawasan udara bagi memantau aliran trafik. Pembangunan platform UAV adalah satu pemunculan untuk membangunkan sistem pengawasan trafik yang pada masa akan datang boleh dilakukan pemantauan kitaran dengan menyebarkan sistem pemantauan ini dengan antara muka pengguna grafik (GUI) yang terpadu pada terminal kawalan di darat bagi memantau arah kenderaan dan juga menentukan, sebagai kenderaan objek maya. Pada masa ini, sistem yang dicadangkan hanya menghantar video masa nyata ke pusat kawalan di darat, tanpa adanya hiburan oleh peranti yang mengimbas video sendirian dan mengesan kedudukan satu objek. Untuk pembangunan dan pemantauan aliran trafik yang dilakukan di kampus Universiti Teknologi Malaysia.

Kata kunci: Aliran trafik, pesawat tanpa pemandu, quadcopter, video masa nyata

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THANK YOU



<https://people.utm.my/nizararmin/>



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Niza Sarmin



Niza Sarmin



NOR HANIZA SARMIN



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In the name of God for Mankind
www.utm.my

Photo credit: Thuy Van Nguyen

Credit slides: Nur Shafikah Misran