

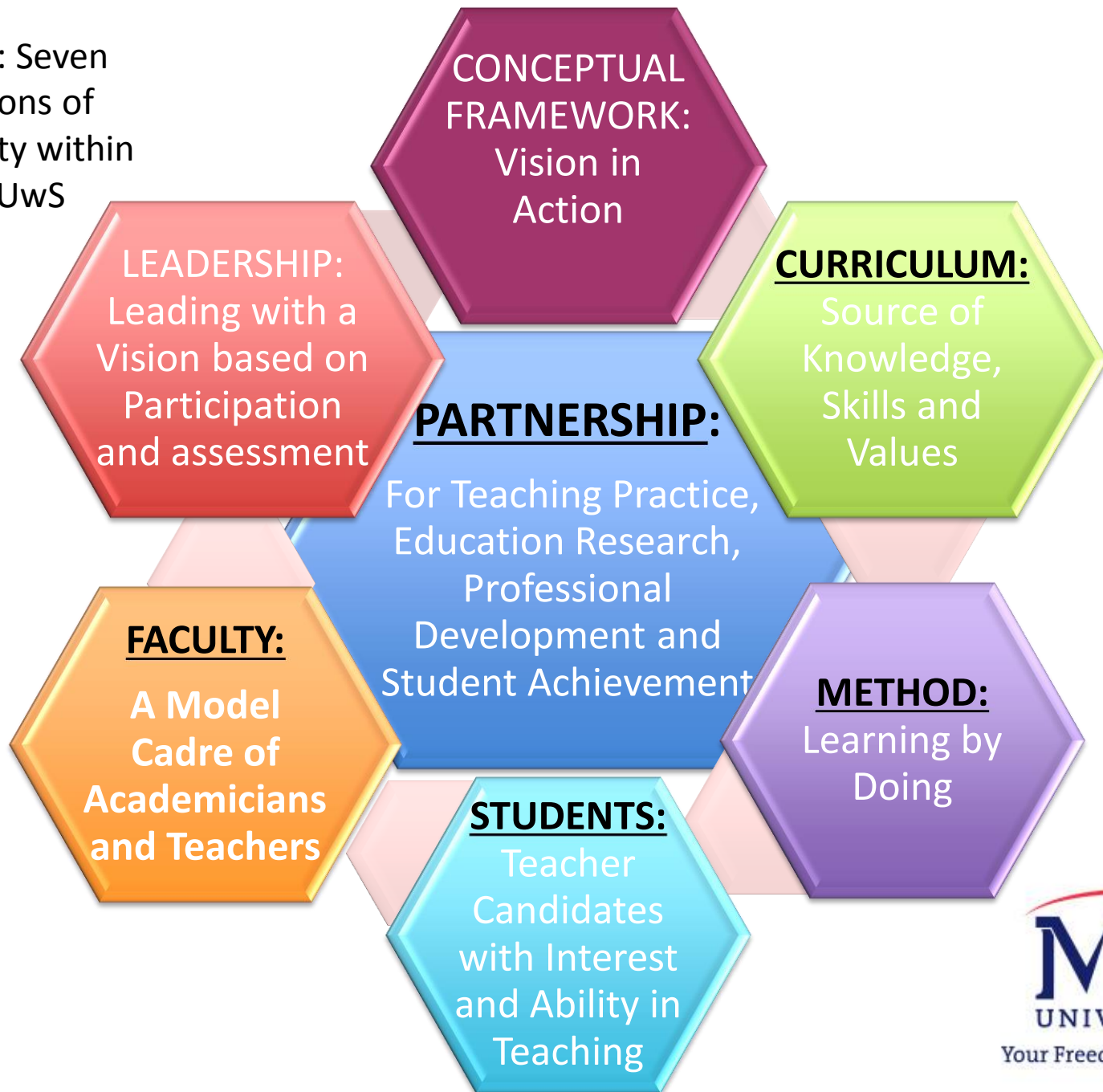


Your Freedom in Learning

Mathematics Teacher Education with University within School model and Flipped Classroom Technique

Zelha Tunç-Pekkan, Ph. D.

Figure 1: Seven Dimensions of University within School- UWS



▶ First Year Implementation of UwS

- <https://www.youtube.com/watch?v=3TAJfE3GLS4>

Akademisyenler ortaokula döndü

Eđitim fakültelerinin akademisyenleri bugüne kadar "öđretmenlik yapmadan öđretmen yetiřtirdikleri" sözleriyle eleřtiriliyordu. MEF Üniversitesi ise yeni öđretmen programıyla, akademisyenleri ortaokul sıralarıyla buluşturuyor. Eđitim fakültesinin akademisyenleri Ayazađa Ortaokulu'nda öđretmenlik yapıyor.

20 Ara 2014 Güncelleme 10:28 TSİ | Konular Türkiye, Eđitim

512 | Paylař



Üniversitenin Dekanı Mustafa Özcan da sık sık okula geliyor. Matematik dersini ise akademisyen Zelha Tunç Pekkan veriyor.

[Fotoğraf: Umay Aktař Salman/Al Jazeera Türk]

Umay Aktař Salman

MEF
UNIVERSITY

Your Freedom in Learning



Flipped Classroom


<https://www.youtube.com/watch?v=4uAtAgt4T0E>

<https://www.facebook.com/MEFuniversitesi/videos/vb.643018822415628/956690747715099/?type=2&theater>

Second Year Implementation of UwS

Co-teaching 6th grade classroom (Ayazaga O)



- 
- Introduction to Mathematics Teaching(University)
First year students- 15 pre-service teachers
with Flipped classroom method

Content of the course

- NCTM, MEB curriculum and programs.
- ‘Being Middle School Teacher’- NCTM. Six chapters
- Jo Boaler’s videos on mathematics education
- Darüşşafaka ve MEF Schools visits
- **Tutoring: Ayazaga Ortaokulu.** Taught mathematics to a pair of 6th grade students for 8 weeks
- **6th grade : Division, multiples, divisibility, prime numbers, common multiple and divisors, Angles, ratio, fractions and operations on fractions**

Blackboard and Course Materials

The screenshot shows the Blackboard interface for a course. On the left is a navigation menu with the following items: Course Home, Syllabus, Instructor Information, Calendar, Course Content, Help, Messages, Blogs, Journals, Discussion Board, My Grades, Additional Resources, and Email. The main content area is titled "Course Content" and features a navigation bar with "Build Content", "Assessments", "Tools", "Partner Content", and "Discover Content". The content area lists four items:

- MEB 5-8 Curriculum**: Enabled: Statistics Tracking
- Week 1**: Enabled: Statistics Tracking. Dear All, Welcome to the class of ELE 102 Introduction to Mathematics Teaching ! I wish you a very productive semester.
- Blackboard Kullanimi**: Enabled: Statistics Tracking. Dear all. Please watch the blackboard youtube video. Thanks.
- NCTM standards**: Enabled: Statistics Tracking. Executive summary of National Council of Teachers of Mathematics - http://www.nctm.org/uploadedFiles/Standards_and_Positions/PSSM_ExecutiveSummary.pdf



Week 8- Tutoring 3

Dear All,

This week will meet with Ayazaga Students and talk about divisibility and Prime Numbers.

Divisibility game:

[bölünebilmeoyun\(1\).docx](#) ▼

Here is Fulya's video about Prime Numbers:

[bandicam 2015-10-23 22-06-17-733.mp4](#) ▼

I will also post the student handouts here soon



Week 10:Nov 9-13, 2015 ▼

Dear All,

1) Tuesday is Nov 10. Therefore, there will be a ceremony to remember M. Kemal Ataturk's life and memory at Ayazaga Middle School. We will be there. This ceremony will take the third class period therefore we should plan to teach only one class period. Just remember this.

here is the plan done by the teachers and contributions from Zeynep and Sude:

[asal_sayilar_ogrenciyeverilen.docx](#) ▼

[asal_sayilar.docx](#) ▼

[elee.mp4](#) ▼



Flipped Classroom

- For 8-weeks,
- a pair of pre-service teacher prepared plan and materials to be used with their students,
- shared with me and classroom teacher,
- then took videos of those lessons to be shared with the other pre-service teachers

▶ Sample pre-service teacher video

- <https://www.youtube.com/watch?v=1n3s1weh3qI&feature=youtu.be>









Course Content

Help


Messages

Blogs

Journals

Discussion Board

My Grades

Additional Resources 

Email 

COURSE MANAGEMENT

Control Panel

Content Collection →

Course Tools

Evaluation →

Grade Center →

Users and Groups

Customization →

 Delete Availability ▾

<input type="checkbox"/>	Name	Visibility	Last Modified Date	Entries
<input type="checkbox"/>	Darussafaka Visit- Reflection paper	Private	12/30/15 12:42 AM	15
<input type="checkbox"/>	FINAL EXAM	Private	12/30/15 1:02 AM	18
<input type="checkbox"/>	MEF International School Visit	Private	12/21/15 6:41 PM	12
<input type="checkbox"/>	MEF Ulus- National Middle School Visit	Private	12/21/15 8:07 AM	11
<input type="checkbox"/>	Mathematics Class visits reflections	Private	11/10/15 7:52 AM	13
<input type="checkbox"/>	Teaching Practice Lesson Plan-1	Private	10/11/15 5:27 PM	12(9 new)
<input type="checkbox"/>	WEEK 2- Reflection on NCTM Standards	Private	10/1/15 10:00 PM	17
<input type="checkbox"/>	Week 1- Being a teacher	Private	10/14/15 1:35 PM	12
<input type="checkbox"/>	Week 11- November15-20	Private	12/1/15 11:24 AM	14
<input type="checkbox"/>	Week 13- Nov 30- Dec 4, 2015	Private	12/7/15 2:11 AM	10
<input type="checkbox"/>	Week 4- Professionalism and Mathematics Teaching	Private	10/9/15 2:30 PM	15
<input type="checkbox"/>	Week 5- MEB Curriculum and Teaching Video	Private	10/27/15 7:19 PM	10
<input type="checkbox"/>	Week 6- Tutoring and Ayazağa Experience	Private	10/19/15 5:26 AM	16
<input type="checkbox"/>	Week 8- Tutoring	Private	11/9/15 8:31 AM	13
<input type="checkbox"/>	Week 9- Nov 3. 2015. Tuesday. Ayazaga Experience	Private	11/9/15 4:33 AM	12

Examples from Journals

REFLECTION

- 1) Who is tutor? How effective is the tutoring than normal class teaching? Why? Please refer to the classroom slides.

Tutor is a kind of teacher but generally they haven't got a lot of experiences. Tutors work with 2 or 3 students and in tutoring we call students as a tutee. Tutoring has positive effects on students' success. It is useful for tutors and tutees. Tutoring is effective because, in tutoring you have only 2 or 3 students. You can see their mistakes easily and with this you can forestall these mistakes.

Sometimes students don't want to ask question in a classroom environment. They may think their friends laugh at them. If they don't understand the topic, they can't ask and then they won't be able to learn. But in tutoring, tutees are able to ask questions without any hesitation.

Another reason for students' success is, tutors are using different strategies. These strategies help them to teach better. Some strategies are, nurturing tutees, modeling for tutees, motivating tutees, asking questions, giving feedback and using examples. They all improve our teaching skills. If we use these strategies, we can be more effective on students.

- 2) How was your tutoring experience at Ayazağa Middle School? Write your observations and comment on those observations (it might be about the school, class, or the children you tutored).

My tutoring experience was so good at Ayazağa Middle School. When I came into the classroom, some students run and hugged me. I felt perfect at this moment. Then we met with our tutees. I worked with Furkan and İnanç. I know them from the last semester so it was easy to make a communication with them. I asked some questions like how was your summer or what did you do in holiday. Furkan said something but İnanç didn't want to talk. I realized that it will be hard to talk with İnanç. He was so silent.

Then we studied math for 2 ours. It was good because they were able to solve questions. They always wanted to solve another question. We had a good time.

I also liked the last part of our day. Mr. Ata talked with us and I think he said really good things. I like Ayazağa Middle School because people in Ayazağa are so kind and cheerful. We



Your Freedom in Learning

- I never felt any regret while I am teaching them. I always said ‘fortunately’. I really like teaching and I hope I was helpful for those students. I wish I will be a good teacher and I really like to help more and more students.

This experience help me to feel like a teacher. I saw my working area and it was full of wonderful students. (ÖğretmenAdayı1)

- After I had this experience, I can say that, fortunately I decided to be a teacher. You will teach your students some important information. They will look you with lovely eyes. When I was at primary school, I was sharing my secrets with my teacher. Some of them will share their secrets with you. **They will trust you.** (Öğretmen Adayı 2)

Future Math Teachers Video

Learning to be Flipped Learning Teachers at
MEF University

- <https://www.youtube.com/watch?v=J627tTbuGoc&feature=youtu.be>

Thanks...

References:

Özcan, M. (2013). Okulda Üniversite: Türkiye’de Öğretmen Eğitimini Yeniden Yapılandırmak için Bir Model Önerisi. [TÜSİAD Raporu].

http://www.tusiad.org/_rsc/shared/file/TUSIAD-Rapor-egitim-Aralik2013.pdf

Bergman J., ve Sams A. (2012). Flip your classroom: Reach every student in every class everyday. International Society for Technology in Education.

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