

CURRICULUM VITAE

Family Name: KIRATLI YILMAZCOBAN

First, Middle Names: Nursel

Date of Birth: January 22, 1978

Nationality: TURKISH

Civil Status: Married

Education: Ph.D.

Degree	Department/Program	University	Year
Post-Doctoral Research	School of Sustainable Engineering and the Built Environment	Arizona State University	14.02.2014 - 15.11.2015
Ph.D.	Environmental Eng. Dept.	Sakarya University	2006-2012
M.Sc.	Environmental Eng. Dept.	Sakarya University	2001-2004
B.S.	Biology Dept.	Istanbul University	1996-2000

Post-Doctoral Research / Supervisor:

1. Development of the Rapid Detection Method of *E.coli* in Drinking Water
2. Detection and monitoring of *Legionella* in the environment and cooling towers at ASU / *Prof. Dr. Morteza Abbaszadegan*

Ph.D. Thesis / Supervisor: Investigation of Biological Treatability of Biodiesel Wastewater / *Prof. Dr. I. Ayhan SENGIL*

M.Sc. Thesis / Supervisor: Removal of Color Problem from Textile Wastewaters by Biosorption Method / *Prof. Dr. Recep ILERI*

Professional Experiences:

Title	Institution / Company	Years
Assistant Professor	Sakarya University of Applied Sciences School	2018-
Adjunct Faculty	Arizona State University , School of Sustainable Engineering and the Built Environment, Civil and Environmental Engineering Department	14.02.2014 - 15.11.2015
Assistant Professor	Sakarya University , Engineering Faculty, Environmental Engineering Department	2013-2018
Research Assistant	Sakarya University , Engineering Faculty, Environmental Engineering Department	2001-2013

Taken International Courses:

1. CEE467/CEE567 “Environmental Microbiology”, M. Abbaszadegan, **Arizona State University**, 2014 Fall.
2. The EHS Biosafety/Biosecurity program, **BSL2, Arizona State University**, 2014-2015.
3. Bacterial Genomes: Disease Outbreaks And Antimicrobial Resistance, **Wellcome Genome Campus Advanced Courses and Scientific Conferences**, 2018.
4. Bacterial Genomes: From Dna to Protein Function Using Bioinformatics, **Wellcome Genome Campus Advanced Courses and Scientific Conferences**, 2018.

Membership of Professional Bodies:

- Turkish Society for Microbiology, TURKEY
- American Society for Microbiology, USA
- Chamber of Environmental Engineers Istanbul, TURKEY
- Federation of European Microbiology Societies, FEMS

Given Courses at Sakarya University Faculty of Engineering:

ACADEMIC YEAR	SAU- EBS COURS	COURS NAME	WEEKLY HOURS	UNDERGRAD Term	NIGHT/DAILY CLASS	Number of Students
			T+P			
2015-2016 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	1. Daily Class	26
2015-2016 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	2. Night Class	21
2015-2016 Spring	CVM498	Graduation Project (L)	0+4	Spring 8th semester	1. Daily Class	1
2016-2017 Fall	CVM201	Environmental Chemistry I (D)	3+2	Fall 3th semester	1. Daily Class	24
2016-2017 Fall	CVM201	Environmental Chemistry I (D)	3+2	Fall 3th semester	2. Night Class	34
2016-2017 Fall	CVM401	Environmental Eng. Design (N)	0+2	Fall 7th semester	1. Daily Class	4
2016-2017 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	1. Daily Class	51
2016-2017 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	2. Night Class	37
2016-2017 Spring	CVM401	Environmental Eng. Design (N)	0+2	Spring 7th semester	1. Daily Class	1
2016-2017 Spring	CVM498	Graduation Project (L)	0+4	Spring 8th semester	1. Daily Class	1
2016-2017 Spring	CVM498	Graduation Project (L)	0+4	Spring 8th semester	2. Night Class	1
2017-2018 Fall	CVM205	Ecoology (C)	3+0	Fall 3th semester	1. Daily Class	30
2017-2018 Fall	CVM301	Water Quality Control (C)	3+0	Fall 5th semester	1. Daily Class	39
2017-2018 Güz	CVM301	Water Quality Control (C)	3+0	Fall 5th semester	2. Night Class	46
2017-2018 Fall	CVM401	Environmental Eng. Design (O)	0+2	Fall 7th semester	1. Daily Class	3
2017-2018 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	1. Daily Class	44
2017-2018 Spring	CVM206	Environmental Microbiology (B)	2+2	Spring 4th semester	2. Night Class	23
2017-2018 Spring	CVM304	Biological Process	3+0	Spring 6th semester	1. Daily Class	26
2017-2018 Spring	CVM492	Applied of Engineering Experience	0+20	Spring 8th semester	1. Daily Class	1
2018-2019 Fall	CVM205	Ecoology (B)	3+0	Fall 3th semester	1. Daily Class	60
2018-2019 Fall	CVM301	Water Quality Control (D)	3+0	Fall 5th semester	1. Daily Class	33
2018-2019 Fall	CVM401	Environmental Eng. Design (N)	0+2	Fall 7th semester	2. Night Class	3
	CVM 441	A paradigm shift in environmental engineering: Earth Microbiome	3+0	Fall 7th semester.		
	CVM 434	Water Security and Bioterrorism	3+0	Spring 8th semester		

* T - Theoretical

**P - Practical

Given Courses at Sakarya University Institute of Natural Sciences:

ACADEMIC YEAR	SAU- EBS COURS	SAU Institute of Natural Sciences	COURS NAME	WEEKLY HOURS	GRAD. Term	Number of Students
				T+P		
2016-2017 Fall	CEM513	Env. Eng. Dept.	Microbial Ecology (A)	3+0	Fall (MS)	7
2016-2017 Fall	CVM845	Env. Eng. Dept.	Graduate Specialization	4+0	Fall (MS)	1
2017-2018 Fall	CEM513	Env. Eng. Dept.	Microbial Ecology (A)	3+0	Fall (MS)	5
2017-2018 Fall	CVM845	Env. Eng. Dept.	Graduate Specialization	4+0	Fall (MS)	1
2017-2018 Spring	CVM845	Env. Eng. Dept.	Graduate Specialization	4+0	Spring (MS)	1
2018-2019 Fall	CEM513	Env. Eng. Dept.	Microbial Ecology (A)	3+0	Fall (MS)	4
2018-2019 Fall	CVM845	Env. Eng. Dept.	Graduate Specialization	4+0	Fall (MS)	5
	CEM 611	Env. Eng. Dept.	Molecular Microbial Diagnostic Methods and Omic Approaches		Spring(PhD)	

* T - Theoretical

**P – Practical

PUBLICATIONS

1.1. SCI-Expanded:

1. Yurtsever, U., Yurtsever M., Şengil İ.A., **Kıratlı Yılmazçoban, N.**, “Fast artificial neural network (FANN) modeling of Cd(II) ions removal by valonia resin”, Desalination and water treatment, Vol.56(1), pp.83-96, (doi: 10.1080/19443994.2014.937756, 2014). **SCI-Exp.**

2. Çilingir, A.Ç., Yılmazçoban, İ.K., **Kıratlı Yılmazçoban, N.**, Durmaz, U., “The development of strain dependent mechanical anisotropy in chicken skin”, Research Journal of Biotechnology, Vol.9(1), pp.57-62, 2014. **SCI-Exp.**

3. Yılmazçoban, İ.K., Çilingir, A.Ç., **Kıratlı Yılmazçoban, N.**, “Computer aided impact analysis of metacarpus verified by the biomechanical tests for improving composite limb guards”, Research Journal of Biotechnology, Vol.9 (3), pp.55-62, 2014. **SCI-Exp.**

4. İleri, R; **Kıratlı, N.**; Koseoglu, G., "Bioremoval of color from textile wastewater by sequencing batch reactor and biotechnological methods", International Journal of Environment and Pollution, Vol. 38, pp. 48 - 55, (doi: 0957-4352, 2009). **SCI-Exp.**

1.2. ESCI

1. Hesari, N., **Kıratlı Yılmazçoban, N.**, Elzein, M., Alum, A., & Abbaszadegan, M. (2017). A Strategy to Establish a Quality Assurance/Quality Control Plan for the Application of Biosensors for the Detection of *E. coli* in Water. *Biosensors*, 7(1), 3. **ESCI**

1.4. Full article published in other peer-reviewed national or international journals

1. **Kırathlı Yılmazçoban N.**, “COVID-19 Sewage Surveillance: Evaluation of Recovery Methods of SARS-CoV-2 from Wastewater”, Turk Mikrobiyol Cem Derg., 51(4):309-25, 2021. DOI: 10.5222/TMCD.2021.66934

2. **Kırathlı Yılmazçoban N.**, Yılmazçoban İ.K., “Experimental and Computational Examination of the Bovine and Chicken Skins under Tensile Loading”, International Journal of Biological and Medical Science (IJBiMeS), Vol. 1-No.2 pp. 16-20, 2016.

1.5. Full article published in other scientific journals

1. **Kırathlı N.**, Özdemir, S., "Aflatoxins in Hazelnut and Taking Preventive Measures Against It", ATB BORSA DERGİSİ, Volume 313, pp. 12 - 15, 2003.

1.6. Abstracts in SCI:

1. Yılmazçoban, İ.K., Çilingir, A.Ç., **Kırathlı Yılmazçoban N.**, “Development of a new bone fixation method without harming the bone structure”, European Biotechnology Congress 2013, Bratislava, SLOVAKIA, 16-18 Mayıs 2013, **Source: Current Opinion in Biotechnology**, Volume: 24, S1, P: S30, JULY 2013. (DOI: [10.1016/j.copbio.2013.05.048](https://doi.org/10.1016/j.copbio.2013.05.048))

2. **Kırathlı Yılmazçoban, N.**, Şengil, İ.A., Yurtsever, M., "BOD characterization of extraction and electrocoagulation process for the treatment of biodiesel wastewater", European Biotechnology Congress 2013, Bratislava, SLOVAKIA, 16-18 Mayıs 2013, **Source: Current Opinion in Biotechnology**, Volume: 24S, P: S70, DOI: <http://dx.doi.org/10.1016/j.copbio.2013.05.192>, Published: FEB 2013.

3. Yılmazçoban, İ.K., **Kırathlı Yılmazçoban, N.**, Tasci, A., Kahraman, A., Ünal, İ., “Mechanical test simulations using FEA of sheep tibia verified by the engineering data of the biomechanical tests” European Biotechnology Congress Istanbul, TURKEY, Sep 28-Oct 01, 2011, **Source: Current Opinion in Biotechnology** Volume: 22, Supplement: 1, P: S51, DOI: <http://dx.doi.org/10.1016/j.copbio.2011.05.135>, Published: SEP 2011.

4. Yılmazçoban, İ.K., **Kırathlı Yılmazçoban, N.**, Avcı, T., Kahraman, Y., İriç, S., “Tensile tests and finite element analysis of different animal skins” European Biotechnology Congress Istanbul, TURKEY, Sep 28-Oct 01, 2011, **Source: Current Opinion in Biotechnology** Volume: 22, Supplement: 1, P: S51, DOI: <http://dx.doi.org/10.1016/j.copbio.2011.05.136>, Published: SEP 2011.

2.2. International Proceedings and Conferences:

1. Yılmazçoban, İ.K., Çilingir, A.C., **Kırathlı Yılmazçoban, N.**, “Computer Aided Impact Analysis of Metacarpus, Verified by the Biomechanical Tests for Improving Composite Limb Guards”, 2nd International Society BioTechnology Conference ISBT 2013, Antwerp, Belgium, 08-10 July 2013, p: 97.

2. Çilingir, A.C., Yılmazçoban, İ.K., **Kırathlı Yılmazçoban, N.**, Durmaz U., “The development of strain dependent mechanical anisotropy in chicken skin”, 2nd International Society BioTechnology Conference ISBT 2013, Antwerp, Belgium, 08-10 July 2013, p: 111.

3. **Kıratlı, N., Ileri, R.,** "A New Process For Removal of Color From Textile Dyeing Wastewaters", International Civil 2004 Conference, Rostov-on Don, RUSSIA, 7-12 April, 2004.

2.3. International congresses and symposiums:

1. **Kıratlı Yılmazçoban, N., Şengil, I.A.,** "Morphological Assesment of Activated Sludge Microbial Coommunity in Biodiesel Wastewater Treatment Process" Belgrade, Serbia, ICERAT, 08-12 November 2017, p:35.

2.4. International Congress and Conferences, Poster Presentation:

1. **Kıratlı Yılmazçoban, N.,** "Microbiomes of the built environment", 2ndInternational Human Microbiota: In Health and Diseases Congress, Antalya, Turkey, 18-22 April 2018, p:78.

2. **Kıratlı Yılmazçoban, N., Şengil, İ.A., Yurtsever, M.,** "Identification of biodiesel wastewater organisms", 15th European Congress on Biotechnology, Istanbul, TURKEY. 23-26 September, 2012, **Source: New Biotechnology** Volume: 29, P: S230, **DOI: <http://dx.doi.org/10.1016/j.nbt.2012.08.648>**, Published: SEP 2012.

3. **Kıratlı Yılmazçoban, N., Şengil, İ.A., Yurtsever, M.,** "Biodegradation effects of biodiesel wastewater by *Escherichia coli*, *Pseudomonas aeruginosa* isolated from activated sludge sample", 15th European Congress on Biotechnology, Istanbul, TURKEY. 23-26 September, 2012, **Source: New Biotechnology** Volume: 29, P: S230, **DOI: <http://dx.doi.org/10.1016/j.nbt.2012.08.649>**, Published: SEP 2012.

2.6. National Publications:

1. Yurtsever M., Nalçak M., **Kıratlı Yılmazçoban N.,** "Doğal Kil Minerali ile Sulardan Alüminyum (III) İyonunun Adsorpsiyonu", İTÜ XIII. Endüstriyel Kirlenme Kontrolü Sempozyumu EKK'12, 17-19 Ekim, İTÜ, Maslak, İstanbul, TURKEY, 2012.

2. Şengil, I.A., **Kıratlı Yılmazçoban, N., Tanattı, P., Yurtsever, M.,** "Liquid-liquid extraction Biodiesel Wastewater and Treatment by Activated Sludge", 20. National Congress of Biology with International Participation, 21-25 June, Denizli, TURKEY, 2010.

3. Yurtsever, M., Şengil, I.A., **Kıratlı Yılmazçoban N.,** " Valeks Tannin Resin and Ag (I) Biosorption", National Congress of Biology with International Participation , 21-25 June, Denizli, TURKEY, 2010.

4. **Kıratlı, N., Köseoğlu, G., Ileri, R.,** "The Removal of Colour from Textile Wastewater using Biotechnological Methods", 13. Biotechnology Congress, 25-29 August, Çanakkale, TURKEY, 2003.

5. Köseoğlu, G., Ileri R., **Kıratlı, N.,** "Sequencing Batch Bioreactor for Treatment of Textile Industry Wastewater ", 13. Biotechnology Congress, 25-29 August, Çanakkale, TURKEY, 2003.

6. Alosman, M., Evcı, M., Kocacık, A., Kırıl, Ş., **Kıratlı, N.,** "Sulfuric Acid Production Technology, The Resulting Waste and Assessment ", 2. Congress of the National Solid Waste, 7-9 May, ÇEVMER- Dokuz Eylül University, Izmir, TURKEY, 2003.

2.7. National congresses and symposiums

1. **Kıratlı Yılmazçoban, N., Şengil, İ.A., Yurtsever, M.,** “Biyodizel yıkama sularının karakterizasyonu”, 1. Ulusal Disiplinlerarası Çevre Kongresi (Uluslararası Katılımlı), 14-16 Mayıs, Sakarya Üniv., Sakarya, 2012.

PROJECT EXPERIENCES

4.2. International Project

1. Biosensor Platform for Rapid Detection of *E. coli* in Drinking Water, **National Science Foundation (NSF) Water & Environmental Technology Center at Arizona State University**, Tempe, AZ, USA. **Post-Doctoral Researcher**. 2014-2015.

2. Reduction of chemical use and water consumption in engineered systems using physical water treatment, **National Science Foundation (NSF) Water & Environmental Technology Center at Arizona State University**, Tempe, AZ, USA. **Researcher**. 2014-2015.

3. Detection and monitoring of *Legionella* in the environment and cooling towers at ASU, **National Science Foundation (NSF) Water & Environmental Technology Center at Arizona State University**, Tempe, AZ, USA. **Researcher**. 2014-2015.

4. IDEXX *Legiolert* - detection of *Legionella pneumophila*, **Quality Assurance & Quality Control Analysis, Researcher**. 2014-2015.

4.3. TUBA and TUBITAK

1. From Source to Tap: Investigation of Microbial Community Composition and Antimicrobial Resistance Potential in Water Supply Chain with a One Health Approach. **TUBITAK, Project Manager**. 2021- ... (Project No: 120Y151 – Budget: 957.300TL).

2. Investigation of Physico-Chemical and Biological Treatment of Biodiesel Industry Wastewater, **TUBITAK, Researcher**. 2008-2012. (Project No: 108Y039 – Budget: 360.000TL).

4.7. Scientific research project supported by higher education institutions (R&D projects only)

1. Tuz Gölü'nün ve Sofra Tuzlarının Mikroplastik Kirliliği Açısından İncelenmesi, **Sakarya University, Commission on Scientific Research Projects; Researcher**. (2006).

2. Lake Akgöl (Sakarya) Monitoring, Analysis of Water Quality Parameters and Artificial Intelligence Modeling, **Sakarya University, Commission on Scientific Research Projects; Researcher**. (Project No: 2012-01-12-016).

3. Determination of Lake Acarlar Flooded Forest (Sakarya) Vegetation, Geographic Information Systems and Ecology Studies, **Sakarya University, Commission on Scientific Research Projects; Researcher**. (Project No: 2012-02-20-017).

4. Determination Effective Microbial Species in Solid Waste Stabilization using Molecular Techniques, **Sakarya University**, Commission on Scientific Research Projects; **Researcher**. (Project No: 2012-01-12-014).

5. Investigation Antibacterial Effects of Nano-Silver Doped Composite Materials, Sakarya Üniversitesi Bilimsel Araştırma Projesi, **Sakarya University**, Commission on Scientific Research Projects; **Researcher**. 2010-2011. (Project No: 2010-01-12-007).

6. Endüstriyel atıksulardaki metallerin biyosorpsiyon yöntemi ile giderilmesi ve modellenmesi, **Sakarya University**, Commission on Scientific Research Projects; **Researcher**, (2004-2006).

Participated Organizations:

1. Bacterial Genomes: Disease Outbreaks And Antimicrobial Resistance, Wellcome Genome Campus Advanced Courses And Scientific Conferences, 9 June 2018.

2. Bacterial Genomes: From DNA to Protein Function Using Bioinformatics, Wellcome Genome Campus Advanced Courses And Scientific Conferences, 29 June 2018.

3. Moleküler Epidemiyolojide Yeni Nesil Sekans Sistemlerinin Kullanılması ve Biyoformatik, Türk Mikrobiyoloji Cemiyeti Moleküler Epidemiyoloji Çalışma Grubu, Yıldırım Beyazıt Üniversitesi, Ankara, Türkiye, 2-4 Temmuz 2018.

4. Microbiom Research and Data Analysis, 2nd International Human Microbiota: in health and diseases congress, Antalya, Turkey, 18-22 April 2018.

5. From the laboratory from the clinic: resistance mechanisms and drug susceptibility testing cours, TMC-ADTS and KLIMUD-ADSI, 9-10 Sempt Istanbul, 2017.

6. Next Generation Sequencing Technology Data Analysis Course, Eres Biotech, 19-20 Agust, İstanbul, 2017.

7. Yeditepe University Head of the Animal Research Ethic Committee, Certificate of Animal Use in Experimental Research (Category B), Jan 2017– Present License YÜDHK XX/81.

8. Comprehensive Introduction into 2D-Electrophoresis, Acıbadem Üniversitesi, 2016.

9. Yeditepe University Medical School Experimental Research Center, Chair of Laboratory Animal Science at Utrecht University, Certificate of Animal Use in Experimental Research (Category C), İstanbul, 2016.

10. Reference Standards and Proficiency Testing, LGC Standards, Istanbul, 2013.

11. Real-Time (RT) PCR Training Course, Ankara Society for Microbiology and Hacettepe University Faculty of Medicine Department of Medical Microbiology, Ankara, 2012.

12. Metabolism Engineering Graduate Summer School, Ege University Biochemistry Department, Bodrum, 2011.

13. 1. Anaerobic Microbiology Course: Isolation, Culturing and Identification in Health, Food and Environment, Yeditepe University Genetics and Bioengineering, Istanbul, 2010.

14. Refresher Course on Trace Elements in the Environment: Contamination Cleanup to Phytoproduct, Istanbul University Faculty of Science, Istanbul, 2010.

15. VI International Participation. IUGEN Molecular Biology and Student Winter School Course, Istanbul University IUGEN, Istanbul, 2009.

16. PCR Typing Application II, Istanbul University BIYOGEM, Istanbul, 2009.

17. Biological Hydrogen Production and Industrial Use Course, TUBITAK Genetic Engineering and Biotechnology Institute (GEBI), Gebze, 2004.

Recent Studies:

- Microbial Identification (PCR, classical identification, metagenomics)
- Antimicrobial Susceptibility Testing
- Activated Sludge Microbiology
- *Legionella pneumophila* control
- Biosensor Technology
- Waterborne Pathogens: Detection Methods and Control

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