MATH/MAT-113 **Matematik II**

Course Syllabus/İçerik

http://www.okan.edu.tr **Yaz 2017**

Text/Ders Kitabı	George B. Thomas, Jr., Maurice D. Weir, Joel Hass Thomas Kalkülüs, 12^{th} baskı Pearson, New York, 2010
Course Description /Ders Tanımı	Inverse functions, logarithmic, exponential, inverse trigonometric, hyperbolic functions. Techniques of integration: integration by parts, trigonometric integrals, trigonometric substitutions, partial fraction decomposition, improper integrals. Series: sequences, series, convergence tests, power series, Taylor series. Geometry of $\mathbb{R}^3$: vectors, dot and cross products, lines and planes, quadric surfaces. Functions of several variables: limits, partial derivatives, chain rule, directional derivatives, tangent planes
Sections /Gruplar	Tue : 9 am – 10:50 am & 2 pm – 3:50 pm Location: 308 Wed : 2 pm – 3:50 pm Location: 308 Thu : 11 am – 12:50 pm Location: 308 Fri : 11 am – 12:50 pm Location: 308
Instructor Info /Öğretim Üyesi	Ögretim Üyesi: Sezgin Sezer Telefon: (0 216).677.1630/2429 Ofis: MMF D333 Akfırat e-posta: sezgin.sezer@okan.edu.tr Ofis Saatleri: randevu ile
Grading/ Notlama	Arasınavlar (2 tane herbiri % 25): %50 Final Sınavı : %50 Toplam: %100
Important Dates / Önemli Günler	Derslerin Başlaması 19 Haziran Ramazan Bayramı 25-26-27 Haziran Derslerin Bitimi 4 Ağustos
Academic Honor Code / Akademik kurallar	Okan Üniversitesi yönetmeliğinde ifade edilen akademik etik ve dürüstlüğün standartları uygulanacaktır.
Homework and Make-up Policy/ Ödev ve Mazeret	Ödev ve mazeret sınavı verilmeyecektir.

Bölüm	Sayfa	Konu Başlığı
7.6	404-416	Ters Trig Fonksiyonlar
7.7	416-424	Hiperbolik Fonksiyonlar
8.1	436-443	Kısmi İntegrasyon
8.2	443-449	Trigonometrik İntegraller
8.3	449-453	Trigonometrik Dönüşümler
8.4	453-462	Rasyonel Fonksiyonların Basit Kesirlerle İntegrasyonu
8.7	478-489	Genelleştirilmiş İntegraller
10.1	532-544	Diziler
10.2	544-552	Sonsuz Seriler
10.3	553-558	İntegral Testi
10.4	558-563	Mukayese Testleri
10.5	563-568	The Oran ve Kök Testleri
10.6	568-574	Alterne Seriler, Mutlak ve Şartlı Yakınsaklık
10.7	575-584	Kuvvet Serileri
10.8	584-589	Taylor Serilerinin Yakınsaması
12.1	660-664	Üç-Boyutlu Koordinat Sistemleri
12.2	665-674	Vektörler
12.3	674-682	Nokta Çarpım
12.4	682-688	Vektör Carpım
12.5	688-696	Uzayda Doğeular ve Düzlemler
12.6	696-701	Silindirler ve Kuadrik Yüzeyler
14.1	747-755	Çok Değişkenli Fonksiyonlar
14.2	755-764	Limit ve Süreklilik
14.3	764-775	Kısmi Türevler
14.4	775-783	Zincir Kuralı
14.5	784-791	Doğrultu Türevler ve Gradyen Vektörleri
14.6	791-802	Teğet Düzlemler ve Diferansiyeller
14.7	802-811	Ekstrem Değerler ve Eyer Noktalar
14.8	811-820	Lagrange Çarpanları

MATH/Mat 114 - Summer 2017 - Tentative Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
June 19th **Summer School starts** 7.1, 7.2	*June 20th* 7.3	*June 21st* 7.5	*June 22nd* 7.6	*June 23rd* 7.7
June 26th **Ramazan Bayramı**	*June 27th* **Ramazan Bayramı**	*June 28th* 8.1	*June 29th* 8.2	*June 30th* 8.3
July 3rd 8.4	*July 4th* 8.7	*July 5th* **First Exam/ Arasınav I 15:30**	*July 6th* 10.1	*July 7th* 10.2, 10.3
July 10th 10.4, 10.5	*July 11th* 10.6, 10.7	*July 12th* 10.8, 12.1	*July 13th* 12.2, 12.3	*July 14th* 12.4, 12.5
July 17th 12.6, 14.1	*July 18th* 14.2, 14.3	*July 19th* **Second Exam/ Arasınav II 15:30**	*July 20th* 14.3	*July 21st* 14.4
July 24th 14.5	*July 25th* 14.6	*July 26th* 14.7	*July 27th* 14.8, review	*July 28th*
July 31st	*Aug 1st*	*Aug 2nd*	*Aug 3rd*	*Aug 4th* **Final Exam 10:00**

Section/Kısım	Count/Adedi	Recommended Problems/Alıştırma Soru No
2.1	24	4, 5, 6, 8, 10, 13, 15, 18, 19, 21, 24, 25, 30, 33, 35, 40, 43, 47, 49, 54, 56, 60, 61, 73
2.2	24	8, 9, 10, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 33, 39, 43, 45, 47, 49, 51, 53, 56, 59, 6
2.3	10	41, 45, 51, 55, 57, 59, 65, 69, 71, 89
2.4	29	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 23, 27, 33, 35, 39, 41, 43, 45, 53, 5 69, 79, 81
2.5	13	1, 2, 4, 7, 10, 15, 20, 21, 25, 29, 35, 40, 53
2.6	21	5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 25, 27, 29, 33, 35, 37, 41, 42, 47, 59
3.1	38	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 2 31, 33, 35, 39, 41, 43, 55, 57, 59, 63, 77
3.2	12	4, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25
3.3	10	41, 45, 51, 55, 57, 59, 65, 69, 71, 89
3.4	30	3, 4, 5, 6, 7, 11, 13, 19, 23, 27, 29, 31, 33, 35, 37, 39, 40, 41, 43, 44, 45, 51, 53, 55, 5 61, 67, 81, 85
3.5	13	1, 2, 4, 7, 10, 15, 20, 21, 25, 29, 35, 40, 53
3.6	30	5, 6, 7, 8, 10, 12, 13, 15, 17, 19, 23, 29, 31, 33, 35, 39, 41, 47, 49, 51, 53, 55, 57, 65, 71, 75, 78, 80, 103
3.7	18	3, 4, 5, 6, 7, 9, 10, 11, 13, 15, 16, 17, 18, 19, 23, 25, 29, 35
3.8	27	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 43, 45, 47 75, 91, 93
3.9	21	5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 25, 27, 29, 33, 35, 37, 41, 42, 47, 59
4.1	38	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 2 31, 33, 35, 39, 41, 43, 55, 57, 59, 63, 77
4.2	10	1, 3, 5, 7, 9, 11, 19, 22, 23, 25
4.3	29	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, 23, 27, 33, 35, 39, 41, 43, 45, 53, 5 69, 79, 81
4.4	6	3, 5, 7, 9, 11, 13
4.5	13	3, 4, 5, 6, 7, 11, 13, 17, 19, 23, 25, 33, 35
4.7	26	8, 10, 11, 15, 17, 19, 25, 27, 29, 33, 35, 37, 43, 47, 49, 51, 53, 59, 61, 63, 67, 69, 71, 114
5.1	24	8, 9, 10, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 33, 39, 43, 45, 47, 49, 51, 53, 56, 59, 6
5.2	17	3, 4, 5, 9, 11, 13, 15, 17, 23, 25, 27, 33, 45, 47, 49, 55, 57
5.3	13	5, 7, 19, 21, 23, 25, 27, 31, 33, 35, 39, 43, 78
5.4	24	5, 6, 7, 8, 9, 13, 15, 17, 19, 33, 37, 39, 43, 45, 49, 51, 53, 59, 61, 67, 77, 79, 103, 105
5.5	19	3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 25, 27, 31, 33, 35, 41, 43
5.6	24	4, 5, 6, 8, 10, 13, 15, 18, 19, 21, 24, 25, 30, 33, 35, 40, 43, 47, 49, 54, 56, 60, 61, 73
6.1	33	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 37, 39, 40, 42, 44, 45, 49, 51, 53, 55, 59 66, 68, 70, 74, 75, 79, 81, 85, 89
6.2	25	17, 19, 21, 23, 25, 27, 33, 34, 35, 36, 37, 38, 39, 41, 43, 51, 61, 66, 75, 76, 79, 85, 88 111
6.3	40	4, 5, 6, 7, 8, 9, 11, 14, 16, 17, 19, 22, 24, 25, 29, 33, 35, 37, 41, 45, 48, 55, 59, 61, 71 77, 79, 85, 89, 93, 95, 97, 101, 105, 109, 113, 117, 120, 131
6.4	39	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 17, 19, 21, 24, 25, 30, 32, 33, 41, 42, 43, 45, 4