

**SILABUS MATAKULIAH**  
**PROGRAM STUDI PENDIDIKAN TEKNIK ELEKTRO**  
**FAKULTAS TEKNIK**  
**UNIVERSITAS NEGERI YOGYAKARTA**

**Nama matakuliah** : **Statistika**  
**No. Kode / SKS** : **/2**  
**Semester** : **Gasal**  
**Dosen** : **Dr. Samsul Hadi, M.T.**

**A. Deskripsi Matakuliah**

Pada matakuliah ini dibahas peranan statistika dalam bidang penelitian, teori peluang, karakteristik distribusi statistika dan distribusi sampling yang banyak digunakan: Binomial, Normal, Chi-kuadrat, student-t, dan Fisher. Statistika deskriptif dan statistika inferensial untuk pengujian hipotesis Berbagai teknik analisis data: analisis korelasi, regresi, analisis varians, uji lanjut analisis varians, penggunaan beberapa statistik nonparameterik. Pembahasan meliputi konsep dasar, aplikasi, dan interpretasi hasil analisis data dengan menggunakan paket program SPSS.

**B. Standar Kompetensi**

Kompetensi lulusan yang diharapkan.

1. Mendeskripsikan konsep dasar statistik parametrik dan nonparametrik
2. Membandingkan statistik deskriptif dan inferensial.
3. Membuat distribusi frekuensi.
4. Membuat berbagai jenis grafik
5. Prinsip pengujian hipotesis
6. Menganalisis data dengan korelasi, analisis regresi, uji t, dan statistik anava
7. Menggunakan paket program SPSS untuk menganalisis data
8. Menafsirkan hasil analisis data
9. Memilih teknik statistik yang tepat untuk suatu permasalahan penelitian.

**C. Skema kerja**

<b>No.</b>	<b>Topik</b>	<b>Uraian</b>	<b>Sumber</b>
1	Pengantar	Pengertian Dasar Statistika dan Statistik, Manfaat dan Kegunaan Statistika, Variabel, dan Skala Pengukuran	Asep Suryana Natawiria dan Riduwan, hal 1 - 12

2	Distribusi Data	Tabel Frekuensi, Presentasi Grafik Data Kualitatif, Distribusi Frekuensi	Asep Suryana Natawiria dan Riduwan, hal 19 - 24
3	Analisis Deskriptif (Pengukuran Gejala Pusat)	Mean, Median, Mode	Asep Suryana Natawiria dan Riduwan, hal 29 - 38
4	Analisis Deskriptif (Pengukuran Variabilitas)	Range, Standar Deviasi, Varians	Asep Suryana Natawiria dan Riduwan, hal 45 - 51
5	Uji Korelasi Tata Jenjang	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 53 - 58
6	Uji Korelasi Product Moment	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 59 - 64
7	Uji Korelasi Ganda	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 65 - 73
8	Analisis Regresi	Regresi Sederhana dan Regresi Ganda	Asep Suryana Natawiria dan Riduwan, hal 75 - 93
9	<b>Ujian Tengah Semester</b>		
10	Uji Beda Satu Sampel/Kelompok	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 109 - 110
11	Uji Beda Dua Sampel/Kelompok	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 111 - 115
12	Analisis Varians Satu Jalur	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 117 - 124
13	Analisis Jalur	Prinsip dan Perhitungan	Asep Suryana Natawiria dan Riduwan, hal 125 - 154

14	Praktik Penggunaan SPSS	Entry Data, Open Data, Menu SPSS, dan Analisis Data	SPSS 11.0 Help
15	Interpretasi Analisis Statistik dengan SPSS	Membaca Tampilan & Membaca “Result Coach” SPSS	SPSS 11.0 Help
16	<b>Ujian Akhir Semester</b>		

#### **D. Penilaian**

Tugas mingguan 6 buah	: 25
Tugas akhir	: 15
Ujian sisipan	: 25
Ujian akhir	: 30
Partisipasi kelas	: 5
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Jumlah	: 100

#### **E. Buku Bacaan**

1. Utama  
Asep Suryana Natawiria dan Riduwan. (2010). *Statistika bisnis*. Bandung: Alfabeta.
2. Pendukung  
Cohen, B.H, Lea, R.B. (2004). *Essentials of statistics for the social and behavioral science*. New Jersey: John Wiley & Sons, Inc.

**Dr. H. Asep Suryana Natawiria, M.M., M.Sc.**  
**Dr. Riduwan, M.B.A.**

# **STATISTIKA**

# **BISNIS**



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**Tim Penulis**

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**ANGGOTA IKAPI JAWA BARAT**

# Essentials

of Statistics for the Social  
and Behavioral Sciences

Barry H. Cohen

R. Brooke Lea



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