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Computer Engineering Department

1. Sait

College of Computer Sciences and Engineering



Department (KFUPM)

Is

Computer Engineering.

are capable of coping with a
technology.

are that will enhance the
loaden the scope and

are
models for transferring
technology into country.

are the technologies for the

Engineering

(CE) is the discipline design, analysis, modeling and implementation of computers and networks. hardware aspects of in a balanced and E program at KFUPM coverage of a wide including computer networks and data communications, computer programming languages and software, computer architecture and operating systems, hardware design, and microprocessor-based systems.

sciplines

and Data Communications

e and Design

ation and VLSI

tems

Tolerance



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er Engineering s Study?

ks design, maintenance,

ervices





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er Engineering & Study?

er science

f algorithms

es





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er Engineering s Study?

design





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Tracks

Three tracks for students
are:



Department (KFUPM)

tworks Track

to students :

Lab,
as lab,
ernets,

nd

ork is also partially available

|



Systems Track

o students :

are available in a Designing tools, such as, Spice, Mark and others, on top of

s such as Logic Design lab, Digital System Design Manufacturing Center.



the Track

developing hardware
software.

o students :

1 Computer Science



f the B.Sc. Program

COE	205	Comp. Org. & Ass. Lang.	3	3	4
EE	203	Electronics I	3	3	4
ICS	202	Data Structures	3	0	3
ICS	252	Discrete Structures	3	0	3
MATH	260	Linear Alg. & Diff. Equ.	3	0	3
PE	102	Physical Education II	0	2	1
			15	8	18

COE	308	Computer Architecture	3	0	3
COE	442	Computer Networks	3	3	4
COE	390	Seminar	1	0	1
ICS	xxx	ICS Elective	3	0	3
xxx	xxx	Elective	3	0	3
IAS	333	The Islamic System	2	0	2
			15	3	16

COE	400	System Design Lab.	1	6	3
COE	4xx	COE Elective	3	0	3
COE	4xx	COE Elective	3	0	3
xxx	xxx	Elective	3	0	3
IAS	4xx	IAS Elective	2	0	2
			12	6	14



B.Sc. Program (Co-op)

COE	205	Comp. Org & Ass. Lang.	3	3	4
EE	203	Electronics I	3	3	4
ICS	202	Data Structures	3	0	3
ICS	252	Discrete Structures	3	0	3
MATH	260	Linear Alg. & Diff. Equ.	3	0	3
PE	102	Physical Education II	0	2	1
			15	8	18

COE	308	Computer Architecture	3	0	3
COE	360	Principles of VLSI Desg.	3	0	3
COE	442	Computer Networks	3	3	4
IAS	4xx	IAS Elective	2	0	2
COE	390	Seminar	1	0	1
xxx	xxx	Elective	3	0	3
IAS	333	The Islamic System	2	0	2
			17	3	18

COE	400	System Design Lab.	1	6	3
COE	4xx	COE Elective	3	0	3
COE	4xx	COE Elective	3	0	3
ICS	431	Operating Systems	3	3	4
xxx	xxx	Elective	3	0	3
IAS	4xx	IAS Elective	2	0	2
			15	9	18





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lectives

hitectures

Sys. Performance Evaluation

Microprocessor Architecture

d Modeling of Digital Systems

opics in Comp. Arch. & Dig. Sys. Design

Sequential Systems

omputing

erant Computing

er Systems

d Systems

opics in Parallel and Distributed Systems

a Networks

ed Networks

ork Design and Management

formation Services

omputing

opics in Computer Comm. & Net

Digital Electronics

tomation of VLSI Circuits

igital Circuits

em Design Methodology

opics in VLSI

on to Robotics

sign Project

Vision Processing

ision Interfacing

opics in Computer Engineering





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Research Projects

dependencies
of Distributed

and Testing of Digital

Department (KFUPM)



earch Projects

rocessor System
gorithms for
Application in the Area of Robotics
ification
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r the Automation
Systems



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ty Services

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ns and Computer Networks
d applications

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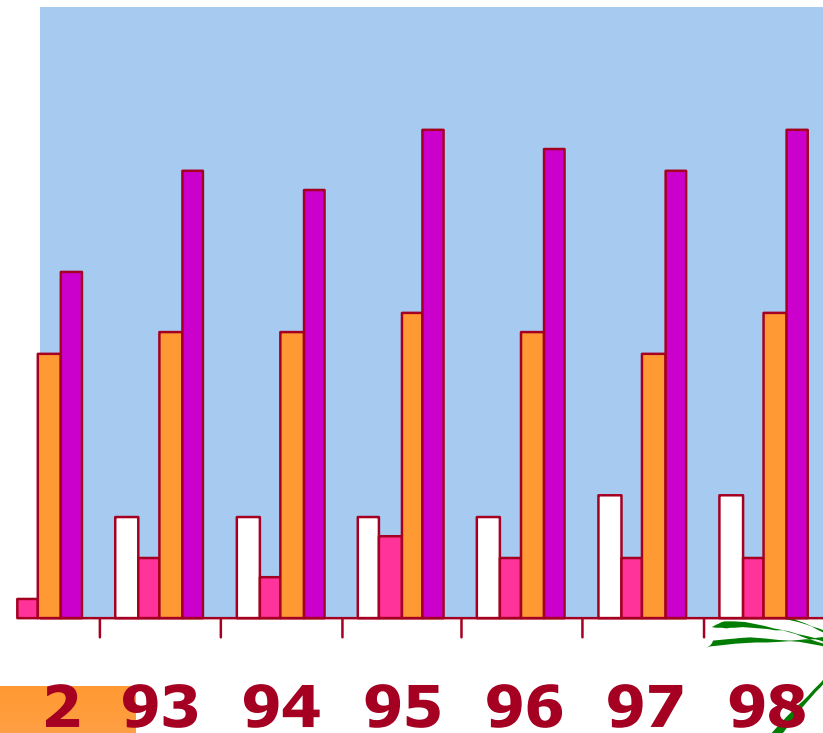


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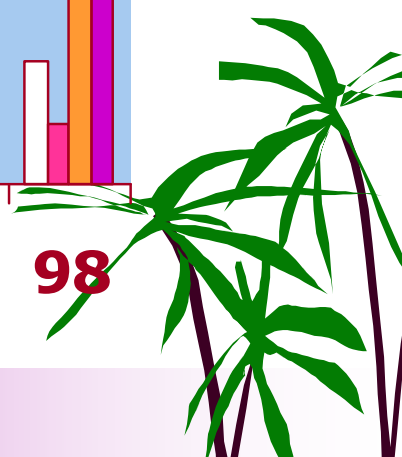


Faculty

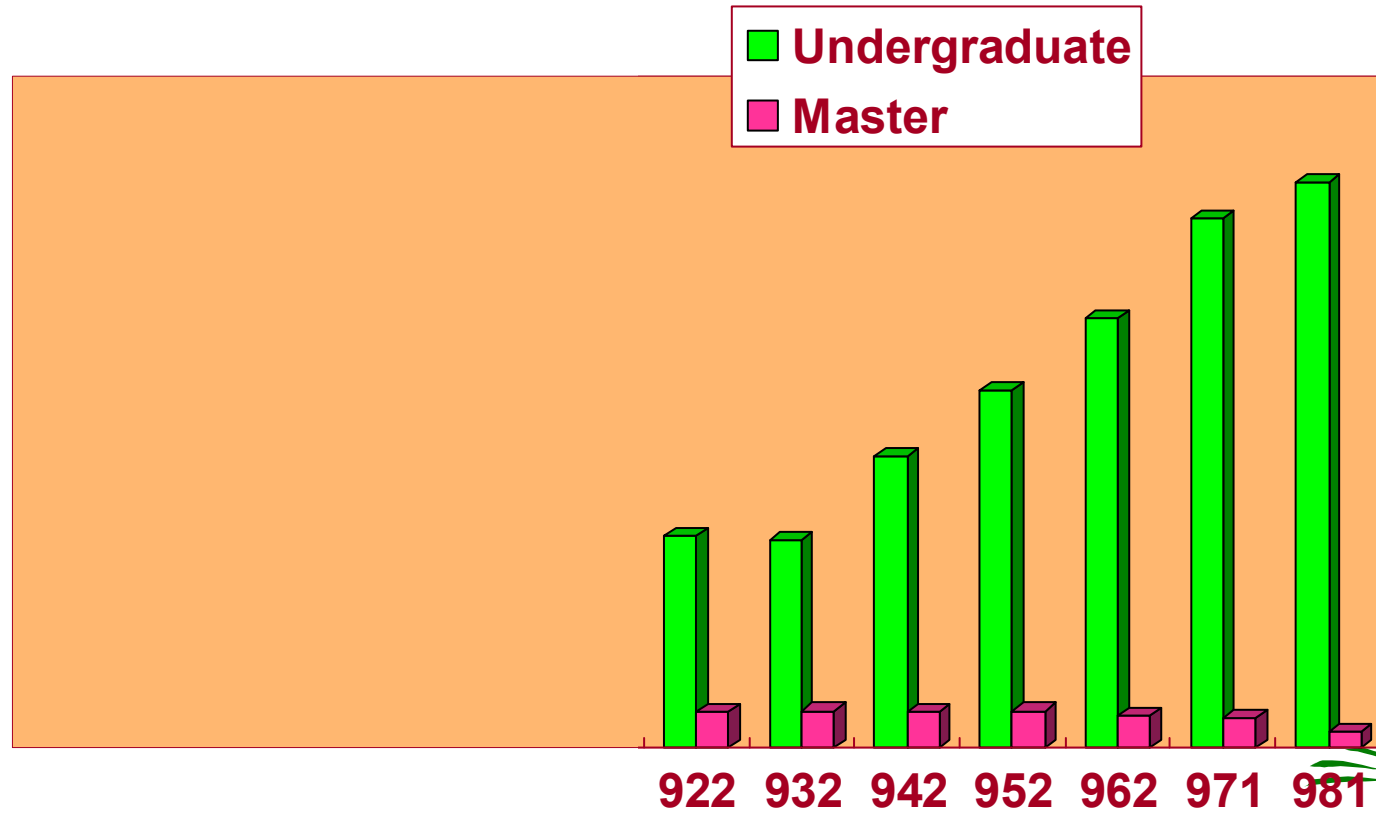
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92 93 94 95 96 97 98

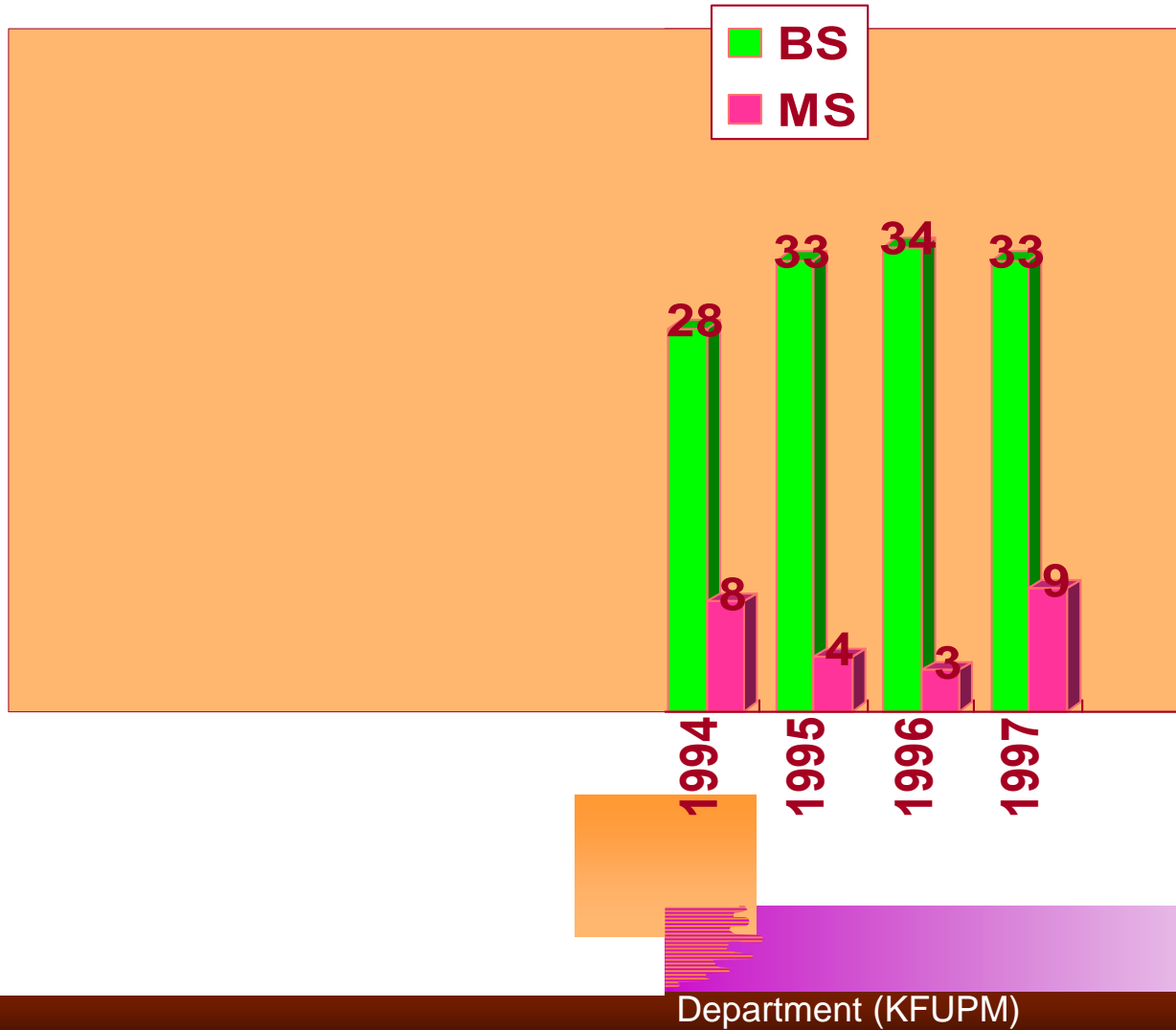


f Students



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Graduates



Department (KFUPM)





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Facilities

ing and Data
laboratory

atory

boratory

and Research

ds Manufacturing



Department (KFUPM)



ry Facilities

boratory

ose PC Laboratories

Center

NeXT Machines Laboratory

sign Laboratory

ory



Department (KFUPM)



opportunities

computer engineers
dealing in various
data
and computer
engineering, data

.



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s of COE Students

networks companies
applications companies
Jabail & Yanbu
iter



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S



ET Members Visit

graduate programs in Computer
University of Petroleum and

is by all measures substantially equivalent to
ABET accredited programs in Computer Engineering at

g Students appear to be the
best in the university with good English skills and solid
dedication to their studies.



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