KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF ELECTRICAL ENGINEERING

EE 411 **LIST OF ASSIGNED CAPSTONE PROJECTS** **072**

#	Project Title	Pre-requisites	Advisor(s)
A	Practical Design and Laser testing of Underground Cables Defective and Thermal Problems: Part 1		Dr. Shwehdi EE department, and Dr. Gondal, Physics Department
B	Practical Design and Laser testing of Underground Cables Defective and Thermal Problems: Part 2		Dr. Shwehdi EE department, and Dr. Gondal, Physics Department
C	Implementation of Bluetooth based Positioning System	Good programming ability : Java , C , or equivalent, EE370 and it would be very helpful if some students have already studied EE400	Dr. Ali Muqaibel / Dr. Saad Al-Shahrani
D	Implementation of Doppler Frequency Measurement System		Dr. Ali Muqaibel / Dr. Munir Al-Absi
E	Design and Implementation of RFID Reader (RFID is an electronic tagging technology that allows an object, place, or person to be automatically identified at a distance using radio waves)		Dr. H. Ragheb, Dr. M. Gahtani, and Dr. M. Mohandes

F	Performance Evaluation of Voice over IP (VoIP) on University Data Network	EE 370, 2. Basic Knowledge of Networking (preferably EE 400)	Dr. Maan Kousa, Mr. Ahmar Shafi, and Mr. Muhammad Ajmal Khan
G	Design and Analysis of Microstrip filters	EE 340	Dr. Essam Hassan and Dr. Sheikh Sharif Iqbal
H	Design and Implementation of a DC Motor Drive Controller	EE 360 and EE 380	Dr. A. H. A. Rahim & Dr. M. Abido
I	Design of Electronic System for Band Screen Control		Dr. Al Zaher, Hussain
J	Compound document image parsing		Dr. A. Zidouri
K	Universal Mobile Phone Charger		Dr. A. Zidouri and Noman Tassaduq
L	A simulation study of Adhoc Sensor Network for Industrial Complexes	Network Simulation tools are required OPNET option is too expensive. We need to find some tools which are available free.	Dr. Asrar Sheikh
M	An accurate micro ampere current source	EE 303	Dr. Munir Al-absi
N	Implementation of a direction finder	EE 303	Dr. Munir Al-absi, Ahmed Abu Alhassn
O	Design of Magnetic Field Sensor for Extremely Low Frequency Magnetic Field	EE340, EE303, EE200	Dr. Alaa El-Din Hussein

P	Identifying People using their Face Images	knowledge of MATLAB	Dr. M. Deriche and Dr. A. Zidouri
Q	Hand Recognition System for Secure Access	knowledge of MATLAB	Dr. M. Deriche
R	Arabic Speech Recognition	knowledge of MATLAB	Dr. M. Deriche
S	Classification of Modulation Techniques		Dr. M. Deriche, Y. Harthi
T	Design fo PID Speed Controller for a DC machine Using Cassy L	ee 360 and ee380	Dr. Chokri Belhaj Ahmed
U	Air-Conditioning Load Management for Residential Area		Dr. Mahmoud Kassas & Dr. Tarek Abdulgalil (RI)
V	Design of speed controller for DC motor using labview		Dr. Mahmoud Kassas & Dr. Mohamed Abido, Mr. Ahmed Abul Hussian
W	Simulation Study of Wireless Industrial Networks		Dr. Samir Al-Ghadhban
X	Design of a Wireless Sensor Network for Monitoring Applications	EE370 and EE303	Dr. Salam Zummo, Dr. Munir Al-Absi, Mr. Ahmad AbuHussain and Mr. Ahmer Shafi
Y	Design of an echo canceller equipped with double-talk detector		Dr. Azzedine Zerguine
Z	Design and Analysis of a safe starting of 6500 HP motor in Abqaiq		Dr. Zakariya Al-Hamouz