Ministry of Higher Education

And Scientific Research

University of Baghdad

AL-Khwarizmi College Of Engineering



Summaries of Scientific Research Projects for Graduate Students in information & communication Engineering Department

2011-2012

Ministry of Higher Education

And Scientific Research

University of Baghdad

AL-Khwarizmi College of Engineering

Information & communication Department

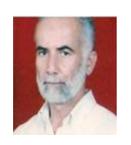


Summaries of Scientific Research Projects for Graduate Students In Information & communication Engineering Department 2011-2012

ACADEMIC STAFF OF INFORMATION & COMMUNICATION DEPARTMENT



ASS .PROF.DR Suha Muhammad Hadi Head of the department



ASS. PROF .AZAM AHMED



DR. OMER ALI



Dr. Khalifa a. Abood



DR.OMER YOUSIF



DR. Ameer Hussein Murad



MSC. AHMED STAAR

ACADEMIC STAFF OF INFORMATION & COMMUNICATION DEPARTMENT



MSC.FATIMA BAHJET



MSC. ZENA ABASS



MSC.SHAKER ALI



MSC. HARITH FAKRI



MSC. YASIR AHMED

Student Graduate Projects

Directed By

The Dean of
Al-Khwarizmi College of Engineering
Prof. Dr.

Nabeel K. Abid Al-Sahib

Supervised By

Assistant Prof. Dr.
Suha Mohammed Hadi

Prepared by
Baydaa M. Mushgil
Shaymaa Dhiyaa-eldeen

Student Graduate Projects 2010-2011

	I 44	<u>.</u>	
اسم المشروع	أسماء الطلبة	اسم التدريسي	ت
Design and Implement an Attendance Employee Management Information System	نورس هيثم عبد القادر عباس محمود عباس	ا.م. د. سها محمد هادي	1
Design, Simulation and Implementation of a DSBSC Modulator/ Demodulator	يعقوب يوسف مهدي رغد رشيد سلمان	د. عمر علي عذاب مني مصطفي	۲
Design, Simulation and Implementation of an FM Modulator/ Demodulator	علياء ناصر حمد فيان عباس علي أكبر	د. عمر علي عذاب	٣
Fiber optic Transmitter and Receiver cct.	شمس عبد الحميد عبد المجيد أياد طارق محمد علي	د. عمر يوسف	٤
Design and Implementing a SCADA based GSM system	مريم خليفة عبود	د. عمر يوسف علي حسين حمد	٥
Automated License Plate Recognition (ALPR) System	فرح فلاح محمد نادیة حسن مریوش	د. أمير حسين	٦
Solving Handwritten Equations using Image Processing Technology	غسق جمال ناصر	د. أمير حسين	٧
Design and Implementation of Car Anti- Sabotage System	سجى علي عبطان إيمان نضال عبد سعيدان	م.م.حارث فخري	٨
Design and Implementation of an Examination Committee System Based on PHP	قاسم نوري حسين ميادة عبد المحسن عبد الزهرة	م.م.حارث فخري	٩
Design and Implementation of an Internet Firewall HTTP Filter	صبا رشید حسن لورنس حکمت فرج	م.م.ياسر احمد	١.
Hybrid Watermarking Algorithm Based on Singular Value Decomposition (SVD) and Radon Transform	إسراء ناطق جواد زهراء سعد جاسم	م.احمد ستار	11
Iris Recognition using DCT ANN	بسمة باسم عبد علوان مريم علي	م فاطمة بهجت	١٢

Design and Implement an attendance Management Information System		Project Name
Nawras Hatham	Abbas Mahmmod	Student Name
Assistant prof. Dr. Suha Mohammed Hadi		Supervisor Name
The goal of the project is to design and Implement an Electronic system for the employee attendance in an secure IS		The Aim of the Project
This project will be build using the Bar Code technique on the employee Identification which will hold his picture this Bar Code will be the cryptographic of the Employee information and every time the employee appear his ID in front of the Bar-Code reader a picture will be taken to that employee and the time for attendance will be tagged on the picture		Project Summery

Design and Implement an attendance **Management Information System**



جامعة بغداد كلية هندسة الخوارزمي



هندسة المطومات والاتصالات

اعداد

نورس هيثم عبد القادر عباس محمود عباس

اشراف أ.م.د سها محمد هادي

خروج

جامعة بغداد /كلية هندسة الخوارزمي /قسم هندسة المعلومات والاتصالات



الصفحة الرئيسية



ادخل الهوية

كتابة ملاحظات

طباعة التقارير

طباعة هوية

الدخول الى قاعدة البيانات

تعديل وقت دخول وخروج الموظف

الرجاء اضغط على الجزء المراد الدخول اليه

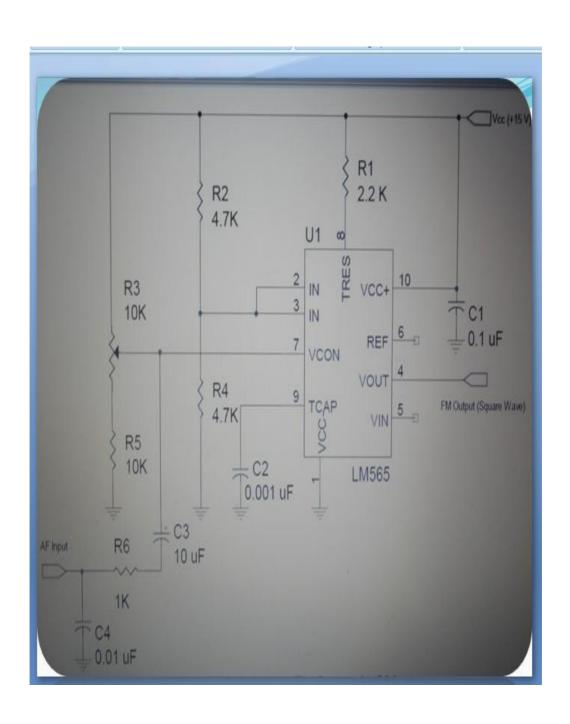
رجوع

دخول

جامعة بغداد /كلية هندسة الخوارزمي /قسم هندسة المعلومات والاتصالات

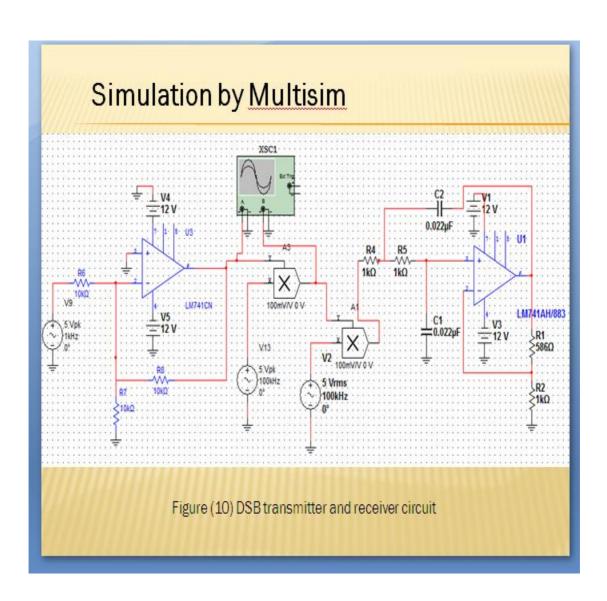
Design, Simulation and Implementation of an FM modulator / Demodulator		Project Name
Vian Abbas Ali	Aliaa Nasir Hamad	Student Name
Dr. Omar A. Athab		Supervisor Name
A step forward to design an FM broadcasting station in Al-Khwarizmi College of Engineering		The Aim of the Project
FM is one of Angle modulation techniques. It depends upon modifying the frequency of the carrier wave to get better performance. The project involves studying the theory and the various methods that are used to realize the FM signal. Then, an electronic circuit is to be designed. Testing the operation of FM signal using Matlab. Finally, implementing a prototype of the FM modulator Demodulator circuit.		Project Summery

Design, Simulation and Implementation of an FM modulator / Demodulator



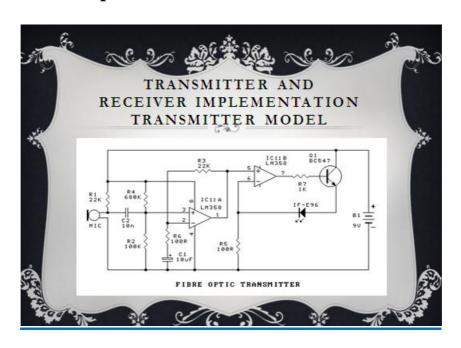
Design ,Simulation and Implementation of a DSB- SC Modulator/Demodulator		Project Name
Ya'aqub Yousif Mahdi	Raghad Rasheed Salman	Student Name
Dr. Omar A. Athab		Supervisor Name
Data Transmission among building of AL- Khwarizmi College of Engineering campus		The Aim of the Project
Amplitude Modulation and Angle Modulation are the main types of modulation. DSB-SC is one of amplitude modulation techniques. IT depends on modifying the amplitude of the carrier wave to get better performance. The project involves studying the theory and the various methods that are used to realize the DSB-SC signal. Testing the operation of DSB-SC signal using MATLAB. Then an electronic circuit is to be implemented as a prototype.		Project Summery

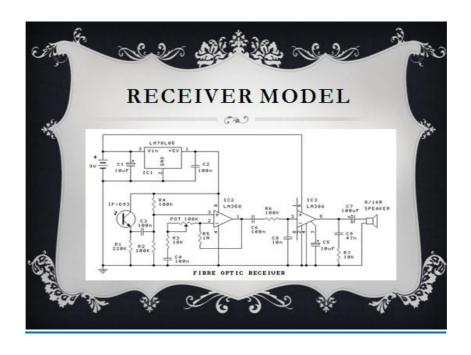
Design ,Simulation and Implementation of a DSB-SC Modulator/Demodulator



Fiber Optic Transmitter and Receiver circuit		Project Name
Ayad Tariq	Shams Abdulhameed	Student Name
Dr. Oma	Dr. Omar Yousif	
Design an optical communication System to transmit a voice message from a transmitter to receiver through a optical fiber		The Aim of the Project
 Design a transmitter system(optical) Design an optical receiver Transmitting a voice signal through a microphone across the optical fiber Receiver as a voice through the micro phone and accommodate for the noise 		Project Summery

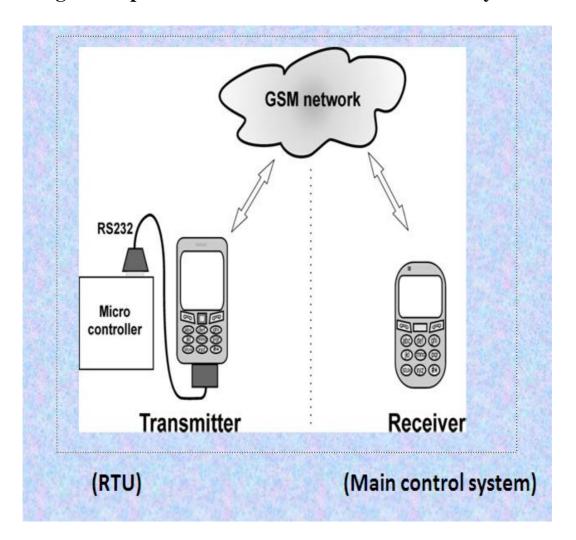
Fiber Optic Transmitter and Receiver circuit





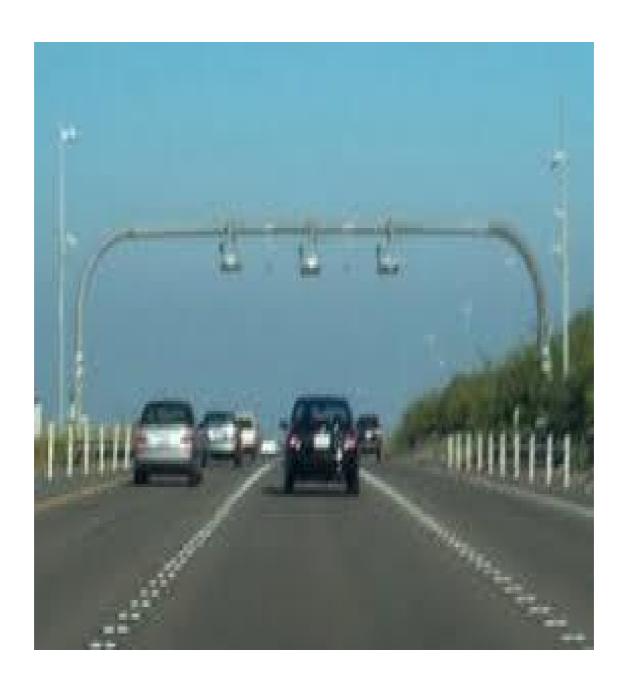
Design & Implementation of a SCADA based GSM system	Project Name
Mariam Khalifa	Student Name
Dr. Omar Yousif	Supervisor Name
1- be familiar with the real time application of 8051 real time microcontroller	
2- Design a simple SCADA system through GSM	The Aim of the
comm. Using ATM command to interface between	Project
mobile and 8051 microcontroller.	
1- Connect the all cct. Through multisim.	
2- Programming &functioning the 8051 microcontroller.	
3- Interfacing the 8051 with the mobile system (GSM)	-
4- Programming the interface system using (ATM) command.	Project Summery
5-sending &receiving controlling command from plant to manager.	

Design & Implementation of a SCADA based GSM system



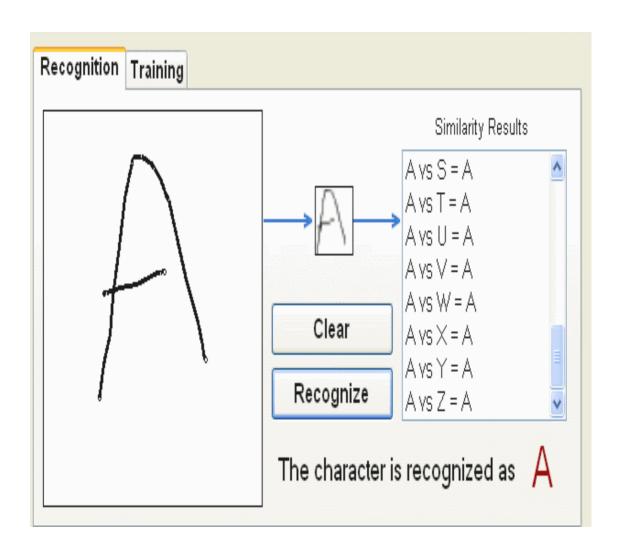
Automated License Plate Recognition (ALPR) System.		Project Name
Farah Falah	Nadia Hasan	Student Name
D.Ameer H. Morad		Supervisor Name
To construct Automatic Recognition system based on computer to capture and recognize violations vehicles of red light running at the junction.		The Aim of the Project
Pc camera is used to capture images of car plate .The image processing is done by MATLAB tools to enhancement and turn it in to binary image .split the plate image into small images , each containing one character. Design character recognition system using neural network to identify characters on the car plate .Also design a simple GUI for the system .		Project Summery

Automated License Plate Recognition (ALPR) System.



Solving Handwritten Equations Using Image Processing Technology	Project Name
Ghasak Jamal Nasir	Student Name
Dr.Ameer H. Morad	Supervisor Name
TO design system that can solve handwritten equations based on computer and image processing technology.	The Aim of the Project
Use scanner to enter the image of equation .the image processing is done by MATLAB to enhancement and tune the image into binary image. The split it into small images .each containing one symbol (number or arithmetic symbol).use neural network to design recognization system to identify symbols. After identification of all equation symbols. Then it will be solved .finally .design a simple GUI for the system.	Project Summery

Solving Handwritten Equations Using Image Processing Technology



Design and Implementation of car Antisabotage system		Project Name
Eman Nidhal	Saja Ali	Student Name
Harith Fakhri Tahir		Supervisor Name
Design a security system to secure cars from sabotage attacks by using real time monitoring system.		The Aim of the Project
 1- implement a literature survey 2- Design a video capturing system by using MATLAB. 3- Treat captured video to be stored as clips, in order to decrease memory storage. 4- Test over a system and get final results. 		Project Summery

Design and Implementation of car Antisabotage system



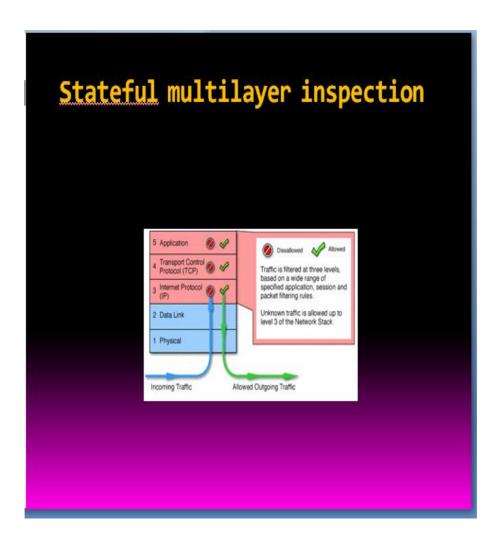
Design and Implementation of an Examination Committee System Based on PHP		Project Name
Qassim Noori	Mayyada Abd-elmuhsin	Student Name
Harith Fakhri Tahir		Supervisor Name
Implement a system that can support the functions of examination committee		The Aim of the Project
Implement a system that can support the functions of examination committee		Project Summery
This project will maintain a process of design and implementation of a system that can enable each teacher to upload all marks of his student and submit his subject's question paper; Also it will maintain a link between registration unit which located in deanship structure and an examination committee in order to facilitate the operation of editing student transcripts and monitoring the process of committees in each department		

Design and Implementation of an Examination Committee System Base on PHP



Design and Implementation an Internet firewall HTTP filter		Project Name
Saba Rasheed	Lawrence Hekmat	Student Name
Yasir A. Al	bdullah	Supervisor Name
The purpose of this project is to implement a firewall program, this program deals with filtering (checking) web sites URL if its contain a bad (customized) word in its URL by blocking these sites and keep it outside a protected environment		The Aim of the Project
An Internet firewall is a piece of software or hardware that helps screen out hackers, viruses, and worms, which try to reach the computers over the Internet. A firewall filters the information coming through the Internet connection into the private network or computer system. If an incoming packet of information is flagged by the filters, it is not allowed through.		Project Summery

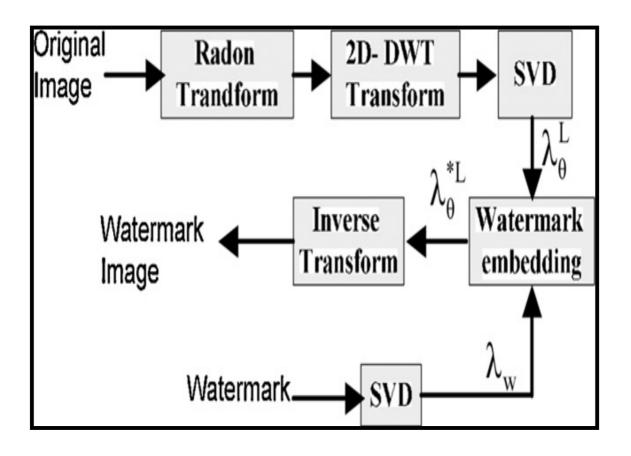
Design and Implementation a Internet firewall HTTP filter



Object index: 11

Hybrid Watermarking Algorithm Based on Singular Value Decomposition(SVD) and Radon transform		Project Name
Zahraa Saad Jasim	Esraa Natik Jwad	Student Name
Ahmed S. Hadi		Supervisor Name
Let the students know now to deal with images. compute the 2-d DWT, Eigen values, Eigen vectors by using MATLAB, Know how to hide image or text inside a host image like LSB .Make the watermarking algorithm more secure by using radon transform.		The Aim of the Project
 How to process the images by using MATLAB How to hide the images by using MATLAB How to compute the 2-D DWT using MATLAB Watermarking by using 2-D DWT. Watermarking by using radon Transform and 2-D DWT. 		Project Summery

Hybrid Watermarking Algorithm Based on Singular Value Decomposition (SVD) and Radon transform



Iris Recogration using DCT and ANN		Project Name
Bassma Basim	Mariam Ali	Student Name
Fatima Bahjet Ibrahim		Supervisor Name
The aim of the project is building a security system using a Biometric Feature is the Iris, the system using DCT to extract features trained by ANN to recognize the person.		The Aim of the Project
This project present an Iris Recognization system .the design used DCT for feature extraction. Those features will be the input for multilayer feed forward ANN algorithm the Iris images used in the system is obtained from CASIA data base.		Project Summery

Iris Recogration using DCT and ANN

