



**STATISTICS OF FEASIBILITY STUDIES BY COURSE**

**ERIS SECTION  
Library Department**

**FEASIBILITY STUDIES**

**ECE**

<b>ACC. NUMBER</b>	<b>AUTHOR</b>	<b>TITLE</b>	<b>YEAR</b>
e7822	Aala, Mark Jayson M.	Web-based Monitoring of Road Condition using Ground Penetrating Radar and Accelerometer through Raspberry Pi	2016
e7823	Abelardo, Melchizedek R	Wave Amplitude Measuring Buoy using Accelerometer and LED Indicator with GSM Technology	2015
e7824	Aguila, Rhowin Miguel L	Design and Implementation of a Wireless NoiseCancelling Electronic Stethoscope with Variable Gain Amplifier as a Telehealth Peripheral	2016
e7825	Alcantara, Alyssa Ashley M	Design and Development of Amperometric Universal Glucose Meter System for Different Testing Strips	2015
e7826	Alfaro, Justin Raynier D. Rolynd Troy R	Portable Electronic Nose Using Component Correction Principal Component Analysis with Temperature Compensation Using Matlab for Fruit Ripeness of Banana, Mango, and Pineapple	2016
e7827	Aquino, Rolynd Troy	Design of ZigBee-Based Security Network with Motion Detection and Dynamic Mapping	2015
e7828	Arcinal, Sweet Kathleen	Carbon Monoxide Monitoring and Carbon Monoxide Poisoning Prevention for Air-conditioned Vehicles	2015
e7829	Ariola, Hilfred J.	Evaluation of Ethylene Growth Rate in Different Types of Bananas from Harvest to Spoilage	2016
e7830	Arreza, Robert T.	Energy Harvesting Halogen Lamp Holder	2015
e7831	Baluyot, Gene Kenneth L.	Web-based Monitoring Support System for Greenhouse Application	2016
e8440	Aala, Mark Jayson M.	Web-based Monitoring of Road Condition using Ground Penetrating Radar and Accelerometer through Raspberry Pi	2016
e8441	Aaron, Brian Christopher F.	Vehicle Identification System through the Interoperability of an Ultra High Frequency Radio Frequency Identification System and its Database	2017
e8442	Abot, Sheryll Diane T.	Real-time Fire Detection System using Image Processing Technology with Algorithms of Color Edge Detection, Motion Detection, and Area Dispersion Viewed via Smartphone Application	2017
e8443	Acosta, Daryl Jay A.	Wearable Belt Bag for the Blind with Dynamic Obstacle Detection using Ultrasonic Sensor, Accelerometer and Kinematic-Based Algorithm	2016

e8444	Agregado, Paul Benedict G.	Wireless Hand Gesture Control Applied to Wheelchair with Anti-Collision System for the Elderly and Paraplegic	2016
e8445	Aguila, Rhowin Miguel L.	Design and Implementation of a Wireless Noise- Cancelling Electronic Stethoscope with Variable Gain Amplifier as a Telehealth Peripheral	2016
e8446	Alarcon, Mark Rolan C.	Utilizing Light Detection and Ranging Technology for Watershed Delineation and Mapping of Philippine Hydrologic Datasets in Quezon with Depth Measurement using Ultrasonic Sensor and Mobile Application	2017
e8447	Albacea, Jezza Marie S.	Water Analysis through Detection and Determination of Escherichia Coli Colony Quantity (in CFU/100mL) using Color-based Segmentation and Hough Transform Algorithms for Image Processing in MATLAB	2017
e8448	Alfaro, Justin Raynier D.	Portable Electronic Nose Using Component Correction Principal Component Analysis with Temperature Compensation Using Matlab for Fruit Ripeness of Banana, Mango, and Pineapple	2017
e8449	Alinea, Francez Eunika B.	APPLICATION-SPECIFIC INTEGRATED CIRCUIT DESIGN (ASIC) FOR AN L-ASPARAGINE BIOSENSOR	2016
e8450	Allanigue, Ma. Anthonette S.	Vehicle Door Latch with Tracking and Alert System using Global Positioning System Technology and IoT Based Hardware Control for Visibility and Security of Assets	2016
e8451	Andal, Jen Angelica R.	Water Quality Monitoring System Using 3G Network	2016
e8452	Andaleon, David Joash D.	Evapotranspiration-based Irrigation System using Raspberry Pi for Capsicum Annum Plant Nursery	2017
e8453	Ang, Veronica Elyzza D.	Vital Signs Monitoring and Recording Device with User-Preferred Input Symptoms as Predictive Measure of Possible Diseases	2015
e8454	Arcinal, Sweet Kathleen.	Carbon Monoxide Monitoring and Carbon Monoxide Poisoning Prevention for Air-conditioned Vehicles	2016
e8455	Ariola, Hilfred J.	Evaluation of Ethylene Growth Rate in Different Types of Bananas from Harvest to Spoilage	2016
e8456	Arreza, Mark Oliver R.	Full Custom Rail-to-Rail Self-Calibrating Comparator for Low Voltage Successive Approximation Register Analog-to-Digital Converter	2016
e8457	Arrogante, Kevin C.	Control of Agricultural Irrigation System through Internet of Things	2016
e8458	Arugay, Kristian Brent Erwin D.	Instantaneous Storm Surge Authentication (ITSSA) Buoy with Self-sustaining Power System and Internet of Things (IoT) Based Interfacing and Access	2016
e8459	Atienza, Gerich Rommel Ulyzes L.	Microcontroller and App-Based Air Quality Monitoring System of Particulate Matter 2.5 (PM2.5) and Particulate Matter 1 (PM1)	2016

e8460	Audencial, Bernadette Kate P.	Energy Harvesting using Thermoelectric Generator Applied to Food Stand	2017
e8461	Auditor, Marimar L.	Determination of Fertility State in Swine Through Vulva Observation Using Digital Image Processing	2017
e8462	Babar, Stephanie Nicole D.	Microcontroller-Based Child Proximity Alert System Using the Received Signal Strength Indicator Method	2017
e8463	Baclao, Noel Jonathan C.	Motor Drive Controller Circuit with Bidirectional Buck-Boost DC DC Converter for Small Scale Vehicle Applications	2016
e8464	Bagaporo, Renz Christian T.	Development of a Graphics Processing Unit Accelerated Stereo Vision System for Depth Estimation	2016
e8465	Balaguer, Crystalyn N.	Philippine Hydrological Dataset Mapping in Batangas Province using LiDAR Data and distance validation using Laser Range Finder	2016
e8466	Baluyot, Gene Kenneth L.	Web-based Monitoring Support System for Greenhouse Application	2016
e8467	Barsaga, Raissa Guinevere C.	Microcontroller-Based Sorting System of Plastic Bottles, Tin Cans and Paper Cartons through Ultrasonic Sensing	2017
e8468	Bautista, Carl John D.	Design and Development of a Dual Input DC to DC Buck Boost Converter with Charging Circuit for Hybrid Photovoltaic and Thermoelectric Source	2015
e8469	Baylon, Sunny Cille.	Automatic Detection of Surface Crack Defects for Concrete using Integrated Image Processing techniques on MATLAB	2016
e8470	Berganos, Edrick John M.	Plant Species Identification Using Canny Edge Detection and SURF Matching Algorithm on Leaf Image via MATLAB	2016
e8471	Bernal Jr., Mario V.	Wearable Augmentative and Alternative Communication Device that Converts 4-bit Discrete Breathing Patterns into Pre-defined Phrases for Paralysis Victims Using Brute Force Algorithm for Pattern Recognition	2017
e8472	Bernardez, John Anthony E.	RFID Driven Automated Dog Feeder Dispenser with SMS Notification	2016
e8473	Blas, Dorothy Faye C.	Multi-user Glucose meter with Insulin Dosage Recommendation	2016
e8474	Boco, Jean C.	Suitability of Irrigation Scheduling System Based on Penman-Monteith and Hargreaves Samani Evapo-transpiration Method Using Raspberry Pi for Capsicum Annuum Siling Labuyo plant	2016
e8475	Borbon, Mac Deib G.	Received Signal Strength Indicator Based EECE Faculty Monitoring System Using Bluetooth and Internet of Things	2016
e8476	Borlongan, Leandro Miguel V.	Solar Panel with Tracking System Based on Suns Position	2016
e8477	Bucad, Michael D.	DETERMINATION OF THE LEAF LENGTH OF LACTUCA SATIVA ON VARIOUS INTENSITY OF RGB LED	2016

e8478	Buenafe, Rene Thomas M.	Harvesting Electrical Power through Body Heat in Different Workout Activities using Peltier Tiles	2016
e8479	Buyagao, Elain Camile B.	Magnetoresistive Sensor for Vehicle Traffic Detection with Web Display	2016
e8480	Cabuello, Jomarie C.	Characterization of a 3A Double Frequency Buck Converter with 3V-18V Input Voltage as a Light Emitting Diode Driver Circuit	2016
e8481	Calimutan, Jeriel J.	Solar Powered Control and Feedback System for Automotive Air Conditioning and Ventilation	2016
e8482	Cambri, Cherizz B. de.	Trend Projection through classification of Technology and Product related to Electronics and Semiconductor Researches	2016
e8483	Canhe, John Robert D.	Microcontroller based Saltwater Aquarium Conditioning System pH Temperature Salinity for Linckia laevigata Blue Sea Star Adaptability	2016
e8484	Capati, John Paul Y.	Thermal Energy to Electrical Energy Thermos Converter using Thermoelectric Generator Lighting 1 Watt LED Bulb	2016
e8485	Castillo, Regil Ken L.	Determination of Sugar Level and the Existence of Magic Sugar in Various Beverages Using a Glucose Meter with Four-Point Probe and Electrochemical Impedance	2016
e8486	Chanliongco, Arnold M.	Measurement of Specific Gravity, Urobilinogen, Blood, Protein and pH Level of Urine Samples Using Raspberry-Pi Based Portable Urine Test Strip Analyzer	2016
e8487	Cleofe, Jayson Edward T.	Raspberry Pi Based Gender Classification for a Day-Old Broiler Chick Using Canny Edge Detector Algorithm and Template Matching	2016
e8488	Constantino, Clarissa C.	Capacitive Multi Grain Moisture Analyzer	2016
e8489	Cordon, Jerico C.	Personalized Photo Enhancement Using Neural Network	2016
e8490	Cruz, John Bennedict DC.	Resource Mapping on the Coastal Areas of Quezon Province	2017
e8491	Daza, Meliza Rose C.	Microcontroller Based Over Speeding Detecting Device Using RFID Technology	2016
e8492	Engbino, Karl Deodato C.	Microcontroller Based Water Quality Analyzer for Irrigation System	2016
e8493	De Roca, Paul Harbbie R.	Battery Charger using Microbial Fuel Cells with the aid of Pseudomonas fluorescens as Microbes	2016
e8494	Dispo, Psalm Eunice S.	Hybrid Power System with Programmed-Timed Transition Automatic Transfer Switch for Road Monitoring and Security Through Closed-Circuit Television	2016
e8495	Domingo, Ellaine Joy A.	Examination of Growth of Nile Tilapia and Romaine Lettuce in Automated Aquaponics System with Access and Control of pH Level and Temperature through Internet of Things with the Use of Intel Edison	2016

e8496	Eleazar, Ryan Ulysses.	HISTOGRAM OF ORIENTED GRADIENT BASED STAND-ALONE OUTDOOR HUMAN MOTION TRACKING SYSTEM USING RASPBERRY PI WITH SMS MODULE AND NIGHT VISION	2016
e8497	Engbino, Karl Deodato C.	Microcontroller Based Water Quality Analyzer for Irrigation System	2017
e8498	Enriquez, Bill Patrick C.	LED Light Compensation System for Plant Growth Period Reduction	2017
e8499	Fernando, Gavriel Antoni A.	AUTOMATED RAT AND COCKROACH REPELLANT USING HAAR CASCADE ALGORITHM	2017
e8500	Fojas, Sarah Jane F.	Vegetation Mapping of the Quezon Province Using Light Detection and Ranging Technology	2017
e8501	Gagarin, John Oraine L.	Wind Energy and Hydroelectricity Generation Using Mini Turbine Installed in Downspout with Rainwater Treatment	2017
e8502	Gania, Ryan Christopher M.	Quantitative in vitro Analysis of Heart-Type Fatty Acid Binding Protein HFABP through RGB Red Green Blue Fluorescent Intensity Sensing of HFABP Sensitive Hydrogel to Aid in Myocardial Ischemia Detection	2016
e8503	Garanganao, Paul Patrick.	Localized Crop Identification and Crop Mapping Using Integrated Image Processing Technique and Unmanned Aerial Vehicle	2015
e8504	Garfin Jr., Jose Ricardo A.	Non-Invasive Acetone-Based Breath Analyzer of Blood Glucose Level by Utilizing MQ138 Gas Sensor Controlled via Gizduino Mini	2016
e8505	Generoso, Wilfredo II C.	An Automated Instrument for Non-intrusive Volume Measurement using a Laser and Ultrasonic Sensor with a Linear Guide	2017
e8506	Grecia III, Jose Norman J.	Extension of a 3-cm Range of Transmission and Reception of a Visible Light Communication System through Varying Modulation Technique	2017
e8507	Guzman, Dustin Jones L.	Structural Health Monitoring of Footbridge Using Wireless Micro-ElectroMechanical System Accelerometer through Fast Fourier Analysis	2015
e8508	Hirota, Yumiko C.	Detection and Localization for Buried and Alive Human Body After Mudslides Using Pulse Sensor and Force Sensing Resistor with XBee Technology and Global Positioning System to Support Rescue Operations	2016
e8509	Javal, Maridella A.	Checkout Counter using Speeded-Up Robust Feature SURF Algorithm via MATLAB with an Incorporated Smart Card Payment System	2016
e8510	Lopez, Jan Franchesca V.	Design and Implementation of a DC-DC Boost Converter for Continuous Hybrid Power System	2017
e8511	Lubrin, Mark Luis M.	DESIGN OF MICROSTRIP TV ANTENNA FOR MAPUA-INTRAMUROS IN-CAMPUS DIGITAL BROADCAST SYSTEM AT 479 MHZ FREQUENCY	2016

e8512	Mabalot, Anthea Victoria V.	Automatic Wireless Power Transfer using Near Field Communication on Portable Devices	2016
e8513	Maglaki, Trixie Julianne D.	Android-Based Student Response System as a Learning Tool in the Classroom	2016
e8514	Remo, Marc Kevin E.	Raspberry Pi-Based Foot Wound Assessment System for Patients with Type 2 Diabetes Using Mean Shift Algorithm	2016
e8515	Torio, Ryan Sylwyn S.	Eigenface Algorithm with Fisherface method for Face Authentication Door Lock Security System using Gizduino with Cloud notification	2017

**Total: 86 Vols.**