



## Subjects Description

Industrial Engineering	<b>:Department</b>	Engineering	<b>:College</b>
3	<b>:.Plan No</b>	2017	<b>:Year</b>
<b>1</b>	<b>:Credit Hours</b>	<b>ENGG 1101</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Introduction To Engineering</b>	<b>:Subject Name</b>
<p>, An Introduction to Engineering and Engineering Design is a brief study for all fields of Engineering including civil Architectural , Electrical, Computer, Mechanical, environmental and civil aviation engineering. It involve the relationships between the civil engineering and other fields of engineering. Engineering attics,. Trinaing,qualification and .preparation of engineers</p>			
<b>1</b>	<b>:Credit Hours</b>	<b>ENGG 1103</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Workshop Technology</b>	<b>:Subject Name</b>
<p>Introduction, dangers and safety measures of workshops, metal engineering materials and properties, field experience on manual works, leveling, forming, electrical, hygienic and heating networking, wildering, lathe, carpentry and using .appropriate tools for leveling and sawing and applications</p>			
<b>1</b>	<b>:Credit Hours</b>	<b>ENGG 1204</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Engineering Drawing</b>	<b>:Subject Name</b>
<p>Introduction to engineering drawing, drawing tools and usage, ways of writing letters and figures, drawing engineering figures (dot, line, angle, triangle, quadrilaterals, arches, circles, cones and curves), multifaceted projections, projections ,of complete sectors, half sectors, partial sectors and identical sectors, writing dimensions on engineering projections .(drawing objects from different projections and three-dimensional projections (isometric and oblique</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>HADT 1202</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Biography Of Prophet Mohammed</b>	<b>:Subject Name</b>
<p>Addresses the importance of studying the biography of the Prophet, definition, sources, and the reality of the world in the hands of the Prophet's mission, the reason for choosing the Arabian Peninsula cradle to the call of Islam, the relationship ,of this call with the calls of previous prophets, the study of biography from his birth to his mission, peace be upon him stages of advocacy, immigration, the establishment of State, and Groups of War conquests, and death of the Prophet .peace be upon him</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>HADT 4204</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Studies In Hadith</b>	<b>:Subject Name</b>
<p>A substance prescribed for non-students of the Faculty of Theology are looking at definition of Sunnah , and the situation</p>			

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in the year and identify the year in the era of the Prophet modern, its causes and the effects of traffic situation and the definition of the modern ones and the frequent and correct, Hassan and the weak and the divisions short, the study of .conversations selected Saheeh Al-Bukhari and Muslim, and annotations			
<b>3</b>	<b>:Credit Hours</b>	<b>MATH 2302</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Ordinary Differential Equations</b>	<b>:Subject Name</b>
First order differential equations, Linear differential equations of order two or higher, Series solutions of differential .equations, The Laplace transform, system of linear differential equations			
<b>4</b>	<b>:Credit Hours</b>	<b>MATHB1401</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>(Calculus (2</b>	<b>:Subject Name</b>
.Techniques of Integration( integration by parts,by trigonometric substitutions, by partial fractions) , Improper Integrals Applications of integration on Volumes, Length of Curves, Surface Area. Sequences and infinite series, test of convergence (integral test, ratio test and root test), power series, curves in the plane ,(Conic Sections - Parametrized .curves , Polar Coordinates), vectors in plane and space, lines in space and planes in space			
<b>3</b>	<b>:Credit Hours</b>	<b>MATHC2301</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>(Calculus (3</b>	<b>:Subject Name</b>
,Vector-valued functions, Space curves and their lengths, Tangents and normals to curves, Curvature. Partial derivatives Chain rule, Directional derivatives, Gradient, Extreme values,Lagrange multipliers, Multiple integrals( double and triple), double integral in polar coordinates, triple integrals in cylindrical and spherical coordinates, calculus of vector fields (vector fields, line integrals, surface integrals) and calculus in vector fields, vector fields, line integrals, surface .integrals), Green's theorem, Stokes's theorem			
<b>3</b>	<b>:Credit Hours</b>	<b>PHYSA1102</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>(General Physics Laboratory (A</b>	<b>:Subject Name</b>
) Measurements of length, mass and volume - Linear motion - Freely falling objects - Motion in two dimensions projectile motion) - Vector addition (force table) - Frictional forces - Elastic and inelastic collisions - Periodic motion simple pendulum) - Elasticity and Hook's law - Rotational motion (moment of inertia) - Conservation of energy - Shear) .modulus			
<b>3</b>	<b>:Credit Hours</b>	<b>PHYSA1301</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>(General Physics (A</b>	<b>:Subject Name</b>
Units and vectors - Linear motion - Motion in two dimensions - Newton's laws of motion - Circular motion - Work and .energy - Conservation of energy - Collisions - Rotational motion - Static equilibrium mechanics - Oscillatory motion			

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<b>3</b>	<b>:Credit Hours</b>	<b>PHYSB1301</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>(General Physics (B</b>	<b>:Subject Name</b>
Electric force - Electric field - Gauss's law - Electric potential - Capacitance and dielectric - Direct current and Resistance Direct current circuits - Magnetic fields - Sources of the magnetic field - Faraday's law - Inductance - Alternating - .current circuits - Electromagnetic waves			
<b>2</b>	<b>:Credit Hours</b>	<b>POLS 3220</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Palestinian Studies</b>	<b>:Subject Name</b>
.The course studies Palestine ancient history, Palestine relation with Islamic history till recent ages History of Zionism movement and its role in foundation of Jewish school in 1948, the course attempts to answer the ?question, Palestine for whom It discusses Palestinians revolutions, Palestinians conservation for their Arabic and Islamic land. 1948 war and Palestinians and Arab roles, it studies also Palestinians resistance movements, Islamic and others. U.N resolutions, the .peace process and it's impacts			
<b>2</b>	<b>:Credit Hours</b>	<b>SHAR 2207</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Islamic Institutional Systems</b>	<b>:Subject Name</b>
This course will provide students knowledge about definition, importance, characteristics, sources of the Islamic systems .such as prayer system, morality, family and policy systems			
<b>3</b>	<b>:Credit Hours</b>	<b>ENGG 1305</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Technical English</b>	<b>:Subject Name</b>
.This course is designed for the first year students in the Faculty of Engineering			
<b>1</b>	<b>:Credit Hours</b>	<b>ENGG 1203</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Introduction To Computer</b>	<b>:Subject Name</b>
This course includes an introduction to computer history. It provide students with the opportunity to gain experience in type of computers, basic units in computer, introduction to languages of computer, personal computer uses, and operating .comments for computer			
<b>3</b>	<b>:Credit Hours</b>	<b>ECIV 2311</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Statics</b>	<b>:Subject Name</b>
Fundamental concepts of Vectors, Equilibrium of force systems, for particles of rigid bodies. Free body diagrams, Axial .force, Shear force and Bending moment, Friction, Section properties: Centroid, and moment of Inertia			
<b>3</b>	<b>:Credit Hours</b>	<b>ECIV 2305</b>	<b>:Subject No</b>

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English	:Teaching Language	Engineering Statistic	:Subject Name
,This course provides an introduction to probability and statistics. Topics include probability theory, counting techniques ,random variables, discrete and continuous probability distributions with a special emphasis on the normal distribution .measures of location, measures of variation, sampling, and data presentation			
3	:Credit Hours	EELE 3151	:Subject No
English	:Teaching Language	.Electric Machines Lab	:Subject Name
,Magnetic circuit construction, performance of single-phase and three-phase transformers and their equivalent circuit characteristics of dc-machines (motors and generators), single-phase and three-phase wound rotor and squirrel cage rotor .induction motors, single-phase and three-phase synchronous machines			
3	:Credit Hours	EELE 3351	:Subject No
English	:Teaching Language	Electric Machines	:Subject Name
,Review of single- and three-phase circuits. Basics of magnetic circuits. Single- & three-phase transformers, theory construction, equivalent circuit, and performance. Fundamentals of rotating machinery, energy conversion, armature mmf and magnetic field, rotating field, single- and three-phase windings. DC machines, principle of operation, types of .dc machines, dc generators, dc motors. Synchronous machines, equivalent circuit, characteristics, salient pole machines Induction motors, equivalent circuit of three-phase motor, performance, characteristics, single-phase motors, split-phase .and capacitor motors Prerequisites: EELE 2311			
3	:Credit Hours	EIND 2302	:Subject No
Arabic	:Teaching Language	Operations Research I	:Subject Name
Introduction to implementation of deterministic optimization modeling and algorithms in operations research. Emphasis .on formulation and solution of linear programming, networks models, and integer programs Prerequisite: None			
3	:Credit Hours	EIND 2303	:Subject No
Arabic	:Teaching Language	Work Analysis And Design	:Subject Name
To provide the students with the basic principles, techniques and tools of work analysis and design. Detailed topics include problem-solving process, methods engineering, standard time establishment, and ergonomic work design. The -analysis measurement and design of efficient work, work place, and procedures using motion economy principles, time study, work sampling, and other work measurement. To introduce industrial engineering student to the field of human factors with an emphasis on the design of jobs means of human work. Analysis and design of work systems considering human capabilities and limitations, human anatomy and physiology, and occupational safety and health. Emphasis on			

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<p>understanding how human factors considerations should be considered in design processes to maximize system effectiveness and safety Prerequisite: ECIV 2305, EIND 2301</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>EIND 2103</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(.Work Analysis And Design I (Lab</b>	<b>:Subject Name</b>
<p>The purpose of this design laboratory is to use the knowledge, skills, and abilities learned in EIND 2303 and apply them to an industry-based project. Major elements included in the project include: human factors, work design principles, work environment, economic justification, work measurement, Time study, and the design process. Students will participate in the lab sessions. Knowledge of basic statistics will be required to analyze the experimental data Prerequisite: ECIV 2305 and must be taken co-current with EIND 2303</p>			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 2305</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Integrated Production Systems I</b>	<b>:Subject Name</b>
<p>To cover the basic concepts in the design and operational control of integrated production systems. Includes topics on facility layout and material handling, material flow and information flow, resource and capacity planning, and shop floor control and scheduling. master production scheduling, job sequencing, material and capacity requirements, planning and scheduling methods, materials resource planning, and Just-In-Time Prerequisite: EIND 2301</p>			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 3301</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Engineering Material</b>	<b>:Subject Name</b>
<p>.Provide industrial engineers with the concept of engineering materials, their behavior, selection, and mechanical testing .Introduce to the atomic order in solids, their crystal structure arrangement, movement, and imperfections Prerequisite: CHEM 1203</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>EIND 3101</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(.Material Sciences (Lab</b>	<b>:Subject Name</b>
<p>.Introduce the students to the experimental procedures followed in metallography, mechanical testing, and NDT Prerequisite: CHEM 1203 and must be taken concurrently with EIND 3301</p>			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 3302</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Metrology</b>	<b>:Subject Name</b>
<p>Introduce the student to the basic principles of calibration and inspection of equipment and devices. Familiarize the student with the concepts of Standards, Straightness, flatness, squareness, parallelism, circularity, resolution, accuracy and precision. Precision measurement, its relationship to geometric tolerances, critical dimensions, and calibration</p>			

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Statistical process control and quality assurance using manual and automated gages, checking fixtures, and coordinate measuring systems. Use of vision, laser and other non-contact measuring systems .Provide the student with the basic knowledge of linear and angular measurements, Limits, fits and gauges Prerequisite: ECIV 2305			
<b>2</b>	<b>:Credit Hours</b>	<b>EIND 3102</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(.Metrology (Lab</b>	<b>:Subject Name</b>
To acquaint the students with the need for inspection and calibration. To introduce the students to the various measurement systems in use Prerequisite: EIND 3302 and must be taken concurrently with EIND 3302			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 3303</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Manufacturing Processes I</b>	<b>:Subject Name</b>
Provide industrial engineering students the basic knowledge of manufacturing processes, machine tools, tooling, and manufacturing automation, understanding major industrial manufacturing processes Application to design of product process, and manufacturing system hand-on-experience via lab, plant tour, video tape, and term project Prerequisite: EIND 3101 and ECIV 2413			
<b>2</b>	<b>:Credit Hours</b>	<b>EIND 3103</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(.Manufacturing Processes I (Lab</b>	<b>:Subject Name</b>
Introduce the students to the safety rules and workshop practice in general. Enabling the student to perform some manufacturing process such as Sawing and shearing processes, Turning and drilling, Milling, Shaping, grinding .Welding, and surface treatment Prerequisite: EIND 3301, ECIV 2413 and must be taken concurrently with EIND 3303			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 4301</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Quality Control</b>	<b>:Subject Name</b>
Principles and practices of statistical quality control in industry. Methods of applying statistics and probability theory to control production processes. Control of quality through the use of statistical analysis; typical control techniques and underlying theory. Application of statistical methods to the design and operation of quality control/assurance systems Control charts for measurements and for attributes. Acceptance sampling by attributes and by measurements. Standard sampling plans. Prerequisite: EIND 3303 and ECIV 2305			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 4303</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Engineering Economy</b>	<b>:Subject Name</b>
,Application of principles of engineering economy for establishment of equipment and system feasibility. Interest			

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equivalence, taxes, depreciation, uncertainty and risk, incremental and sunk costs, and replacement models. The course focuses on the coupling of technical analysis and economic feasibility to determine the best course of action among alternatives competing for scarce resources in both public and private sector projects. Examines the principles, concepts and methodology of the time value of money as applied to governmental, industrial, and personal economic decisions. Topics include benefit-cost analysis, inflation, depreciation, taxes, tax abatements, risk and sensitivity analysis, and the comparison of alternatives. Discussion includes the engineers' ethical and social responsibilities as they apply to project decisions affecting job creation and loss, personnel placement, and capital expenditure. Prerequisite: EIND 3303

<b>3</b>	<b>:Credit Hours</b>	<b>EIND 4305</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Facilities Plan .And Mat. Handing</b>	<b>:Subject Name</b>

Analysis and synthesis of production and service facilities and systems with focus on system requirements, flow analysis activity analysis, and the integration of appropriate material handling systems. Evaluation of facility designs using qualitative, economic, functional performance measures, and computer-based analytical and design tools. This course is designed to give the students a comprehensive understanding of the issues involved in the design of an industrial production system. It will cover the problems in plant location, product analysis, process design, equipment selection, materials handling, and plant layout. Introduction to plant location theory and analysis of models of plant location models for determining plant size and time phasing, line balancing models. Techniques for investigating conveyors and other material handling problems, models for plant layout. Usage of several available commercial software. Prerequisite: EIND 2303

<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5300</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Senior Project I</b>	<b>:Subject Name</b>

Learning techniques and procedures for preparation of technical documents. Intensifying critical, analytical process of thinking, and executing writing and oral strategies for different situations. Capstone design experience for industrial engineering students involving analysis and synthesis of unstructured problems in practical settings. Prerequisite: EIND 4000

<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5301</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Senior Project II</b>	<b>:Subject Name</b>

Completion and presentation of design project started in EIND 5300, Capstone design experience for industrial engineering students involving analysis and synthesis of unstructured problems in practical settings. Prerequisite: EIND 5300

<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5306</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Engineering Project Management</b>	<b>:Subject Name</b>

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Critical issues in the management of engineering and high-technology projects are discussed. Time, cost, and performance parameters are analyzed from the organizational, people, and resource perspectives. Network optimization and simulation concepts are introduced. Resource-constrained project scheduling case discussions and a term project are included. To address the basic rules of managing projects and the advantages and disadvantages of this methods of .getting things done. The problems of selecting projects, initiating them, and operating and controlling them are discussed The demands made on the project manager and the interaction with the parent organization are also presented. Studies of current methods for the effective control of projects in the private and public sectors are presented. Included are the analysis of qualitative and quantitative factors that affect the successful completion of projects. Emphasis is on the development of project criteria, analysis of project networks, and the effects of time, financial, and organizational .changes on projects

Prerequisite: EIND 4303

<b>3</b>	<b>:Credit Hours</b>	<b>ECIV 2313</b>	<b>:Subject No</b>
<b>English</b>	<b>:Teaching Language</b>	<b>Strength Of Materials</b>	<b>:Subject Name</b>
<p>,This course aims to study the relations between the applied loads to a non-rigid body in one side and the deformations strains, and stresses in another side. These relations involve the concepts and skills that form the foundations of structure ,and machine member designs. This course involves the understanding of the concept of stress, strain, axial loading ,torsion, pure bending, analysis and desing of beams for bending, shearing stresses in beams and thin-walled members .transformation of stresses and strain, principle stresses under a given loading, and columns buckling</p>			
<b>3</b>	<b>:Credit Hours</b>	<b>MATHA1301</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Calculus (1</b>	<b>:Subject Name</b>
<p>,Properties of Real Numbers, Limits, Continuity, Derivatives, Differentiation Rules, Applications of Differentiation .Indefinite and Definite Integrals, Applications of Integration, Areas, Volumes, Length of Curves, Surface Area</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>ARAB 1202</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Arabic Language (Grammar &amp; Morphology</b>	<b>:Subject Name</b>
<p>The course is aiming at introducing the university students to the basic Rules of Arabic Grammar and Morphology in a .very simple way of teaching :The course will cover the following topics ;Parts of Speech; the Nouns; Verbs; Particles; the Subject and the Predicate; verb; its tense and mode; Nominal sentence .the definite and the indefinite nouns; Active and passive</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>SHAR 1202</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Studies In Fiqh</b>	<b>:Subject Name</b>

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,This course deals with the meaning of Fiqh (Jurisprudence) and the stages it went through. It also deals with purity ablution, prayers (Friday prayers, eclipse prayers, fear prayers, funeral prayers), and al-Zakah, fasting and performing pilgrimage (Haj). Concerning transactions, the course focuses on aspects such as money, property, contracts, deposits .sharing agreements, cropsharing, renting and sponsorship

<b>1</b>	<b>:Credit Hours</b>	<b>QURN 1101</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Holy Quran (1</b>	<b>:Subject Name</b>

<b>1</b>	<b>:Credit Hours</b>	<b>QURN 2101</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Holy Quran (2</b>	<b>:Subject Name</b>

<b>1</b>	<b>:Credit Hours</b>	<b>QURN 3101</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Holy Quran (3</b>	<b>:Subject Name</b>

<b>1</b>	<b>:Credit Hours</b>	<b>QURN 4102</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>(Holy Quran (4</b>	<b>:Subject Name</b>

<b>3</b>	<b>:Credit Hours</b>	<b>AQID 3306</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Studies In Creed</b>	<b>:Subject Name</b>

,A substance prescribed for non-students of the Faculty of Theology, looking at the definition of faith, relevance, impact ,characteristics, and faith in God Almighty, and unification of the Lordship and Divinity, and His names and attributes and faith in angels, belief in the apostles and prophets, belief in holy books and belief in the Last Day and the Signs of the Hour , and the horrors of the Day of Resurrection and detail, and fatalism, and its impact on human life, loyalty and .disavowal in Islam

<b>2</b>	<b>:Credit Hours</b>	<b>QURN 2201</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Quranic Studies</b>	<b>:Subject Name</b>

A substance prescribed for non-students of the Faculty of Theology, taught students the most important detective ,concerning the science of the Quran in short, Mecca and civil society, the descent of the Koran, the reasons come down the collection of the Koran, Alsowar, stories of the Qur'an and its benefits, trunks of the Koran, the translation of the Koran of Israeli women, the approach to optimize interpretation of the Koran, as taught analytical interpretation of the .sections relating to the morality of Koranic Isra and light, and analytical interpretation of the Al rooms

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2	:Credit Hours	ARAB 3202	:Subject No
Arabic	:Teaching Language	Arabic Writing And Expression Skills	:Subject Name
<p>The course is designed as an introduction to writing skills, it's elements, it's rules, and the different Arabic writing styles. Also, the course included a history of the main writing movements through the centuries and the major Arab writers as well.</p>			
2	:Credit Hours	ECON 4203	:Subject No
Arabic	:Teaching Language	.Principles Of Econ. & Islamic Econ	:Subject Name
<p>This course provides a thorough understanding of the different economic systems and comparing them with the Islamic economic system. The course provides students with the knowledge of theory, methods, behavior and issues necessary for Economy in general and specially the Islamic Economy.</p>			
2	:Credit Hours	SHAR 2208	:Subject No
Arabic	:Teaching Language	Human Rights In Shariah And Law	:Subject Name
<p>This course will provide students knowledge about definition, importance, characteristics, sources of the Islamic systems such as prayer system, morality, family and policy systems.</p>			
3	:Credit Hours	EIND 5302	:Subject No
Arabic	:Teaching Language	Operations Research Ii	:Subject Name
<p>Introduction to advanced models in operations research. Emphasis on Markov chains.</p>			
3	:Credit Hours	EIND 5305	:Subject No
Arabic	:Teaching Language	Integrated Production Systems Ii	:Subject Name
<p>To further develop the student's knowledge beyond the basic techniques studied in IE I for the design of plant/facilities layout and production control systems. To acquaint the student with production planning and material handling systems -and their effect on the plant design. To familiarize the student with engineering topics in manufacturing and non manufacturing environments such as Group Technology, FMS, knowledge-based systems, JIT, CAD, recycling, and concurrent engineering.</p> <p>Prerequisite: Principle of Production Management</p>			
3	:Credit Hours	EIND 5303	:Subject No
Arabic	:Teaching Language	Manufacturing Processes Ii	:Subject Name
<p>Provide industrial engineering students the basic knowledge of manufacturing processes, machine tools, tooling, and manufacturing automation, understanding major industrial manufacturing processes Application to design of product process, and manufacturing system hand-on-experience via lab, plant tour, video tape, and term project.</p> <p>Prerequisite: Manufacturing Processes I, EIND 3303</p>			

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<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5314</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Management Of Service Industries</b>	<b>:Subject Name</b>
Prerequisite: Statistical Quality Control EIND 5312, Principle of statistics ECIV 2305			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5309</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Total Quality Management</b>	<b>:Subject Name</b>
<p>Total Quality Management hinges on two aspects - making the company the best it can possibly be in the use of its ,human resources and striving for world class quality in the products it offers. Topics include: the basic philosophy values and culture of TQM; total customer orientation; maximizing employee potential for continuous improvement. The course will then survey recent techniques used in striving for world class quality in: research and development, quality of design, customer and supplier relationships, production capability, process control and materials management. In order to achieve the highest standards of quality and customer satisfaction it is necessary to embed quality right across the .organization, in everything it does and with all staff. This is the underlying philosophy of Total Quality Management</p> <p style="text-align: center;">Prerequisite: Statistical Quality Control EIND 5312, Principle of statistic ECIV 2305</p>			
<b>3</b>	<b>:Credit Hours</b>	<b>EIND 5312</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Design For Mau &amp; Assembly</b>	<b>:Subject Name</b>
<p>Introduction: DFMA defined: advantages and disadvantages of DFMA. Selection of materials and manufacturing processes. Product design for manual assembly. Electrical connections and wire harness assembly. Design for high speed automatic assembly and robot assembly. Design for machining. Design for injection molding. Design for sheet metalworking. Design for die casting. Design for powder metal processing. Design for manufacture and assembly and .CAD</p> <p style="text-align: center;">Prerequisite: Manufacturing Processes II EIND 5303</p>			
<b>2</b>	<b>:Credit Hours</b>	<b>SHAR 4231</b>	<b>:Subject No</b>
<b>Arabic</b>	<b>:Teaching Language</b>	<b>Modern Financial Transactions</b>	<b>:Subject Name</b>
<p style="text-align: center;">SHAR 4231 - Contemporary Financial Transactions</p> <p style="text-align: center;">:This course discusses the following issues</p> <p style="text-align: center;">.Intangible rights such as copyright, patent right, and trade name right□.1</p> <p style="text-align: center;">.Insurance, its definition, branches and rules□.2</p> <p style="text-align: center;">.Murabaha, lease to own, joint venture, mudaraba (profit sharing), and all rules pertaining to each□.3</p> <p style="text-align: center;">.Manufacturing finance, contracting finance, and all pertaining rules□.4</p>			

**Director of Admission & Registration**  
 ZOHAIR M AL-KOURDI