



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
ENG 001	ENGLISH I	15	5	7

### Course Detail

This course is intended to develop the ability of the incoming college student to communicate comprehensively and to undertake technical studies in the College in English, using appropriate vocabulary and grammatical structures. The course focuses on all language skills as well as accuracy. Students encounter various activities and audio visual aids as sources/cues for learning and using the language. The course aims to consolidate the English that the students already know, and to give them confidence in using the language.

Course No	Course Title	LT	LB	CR
ENG 002	ENGLISH II	15	5	7

### Course Detail

This course is intended to develop the ability of the incoming college student to communicate comprehensively and to undertake technical studies in the College in English, using appropriate vocabulary and grammatical structures. The course focuses on all language skills as well as accuracy. Students encounter various activities and audio visual aids as sources/cues for learning and using the language. The course aims to consolidate the English that the students already know, and to give them confidence in using the language.

Course No	Course Title	LT	LB	CR
ENG 101	ENGLISH COMMUNICATION	2	0	2

### Course Detail

This course is designed to develop student's ability to converse accurately and efficiently in English. Students encounter a variety of situations which encourage authentic use of English conversation through situational dialogues, descriptions, instructions and problem solving. In addition, presentational techniques and skills are taught and students gain experience in speaking in front of an audience by giving individual presentations on selected topics.

Course No	Course Title	LT	LB	CR
ENG 102	ENGLISH COMPOSITION	2	0	2

### Course Detail

This course is designed to provide students with the practical and theoretical skills needed in the preparation and execution of written compositions. It involves exercises aimed at developing and improving students' ability to write compositions of one or more paragraphs accurately and effectively. Particular attention is paid to the improvement of cursive handwriting, sentence structure, verb formation and punctuation.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
ENG 201	TECHNICAL REPORT WRITING	3	0	3

### Course Detail

This course is designed to provide students with the practical skills needed in the preparation of written technical communications. It involves exercises aimed at developing and improving students' ability to write effectively in technical areas. In addition to this, instruction covers the accepted techniques of producing a technical report. This covers the planning and production stages and includes format and use of graphics/pictorials, culminating in the actual production of an academic technical report from an area of specialization.

Course No	Course Title	LT	LB	CR
MATH 001	ALGEBRA	4	0	4

### Course Detail

This course covers algebraic concepts and skills needed in mathematics, basic sciences and technology. Emphasis is given to topics that are broadly useful in technological fields. Topics include: sets and number systems, inequalities, polynomials and factoring, algebraic equations, functions, graphs, variation, exponential and logarithmic functions. A variety of applications are included in the course. Application problems will be solved during problem solving sessions (one hour per week)

Course No	Course Title	LT	LB	CR
EEET 001	INTRODUCTION TO COMPUTERS	1	2	2

### Course Detail

The purpose of this course is to provide fundamental knowledge of computer, computer applications and to prepare students for advanced courses. The course introduces the students to basic computer concepts through training in Windows along with the four major personal computer applications, word processing, Web Page Development, electronic spreadsheets, and databases and provides an overview of internet and its applications.

Course No	Course Title	LT	LB	CR
EEET 100	ELECTRICAL AND ELECTRONICS DRAFTING	1	3	2

### Course Detail

This course provides knowledge of Electrical and Electronics Drafting Techniques and an understanding of electrical and electronics drawings and layout diagrams as a means of technical communication. This course includes basic theoretical information of drafting instruments, symbol templates, CAD equipment and in depth knowledge of various electrical and electronics drawings used currently by engineers in Industries. This course covers standard electrical and electronics drawings such as electrical plans, schematic diagrams, layout diagrams, assembly drawing and pictorial diagrams, PCB drawings.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 101	FUNDAMENTALS OF ELECTRIC CIRCUITS	3	3	4

### Course Detail

This course provides the student with an understanding of the concepts and techniques in the characterization of electrical circuits and their components. This course introduces the student to the basic concepts of current, voltage, power, electromagnetism, basic laws and theorems for the analysis of electric circuits. Pulse-Response and resonance are also covered. Theory classes are supported by laboratory experiments to study, test and verify the characteristics of these basic electrical concepts.

Course No	Course Title	LT	LB	CR
EEET 103	ELECTRICAL MACHINES I	2	3	3

### Course Detail

This course deals with the fundamentals of transformer and DC and AC electrical machines. The theory, construction and operation of ideal and practical transformers are covered in details. Theory of autotransformer is also briefly covered. The construction, operation and characteristics of DC machines are studied. The starting, speed control and applications of DC motors are dealt with. The single phase AC motors are introduced. Special emphasis, however, is given to the single phase induction motors. Laboratory exercises reinforce theory and provide students with hands on experience.

Course No	Course Title	LT	LB	CR
EGT 201	INDUSTRIAL SAFETY	0	2	1

### Course Detail

This course covers the importance of safety in plants and deals with hazards, fire safety, static electricity, personnel protective equipment, explosive limits, combustible and toxic chemicals, hazards of air, water and steam, LPG, electrical safety work permit, safety tag and accident prevention.

Course No	Course Title	LT	LB	CR
EEET 104	COMPUTER PROGRAMMING	1	3	2

### Course Detail

This course introduces techniques to solve problems through computer programming using high level computer language 'C'. The students will learn problem solving techniques, basic programming concepts such as input/output statements and control statements, use of sub programs and structured data types such as arrays and structures. The course is supported by exercises in the laboratory.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EGT 202	INDUSTRIAL SUPERVISION	1	0	1

### Course Detail

This course provides students with knowledge and understanding of what industry is and the role of supervision in it. First it discusses the evolution, the meaning and types, the impact of technology, and the factors that influence the location and development of industries in Saudi Arabia. Secondly, it deals with the nature and skills of supervision and functions and responsibilities of supervisors in industries.

Course No	Course Title	LT	LB	CR
MATH 002	TRIGONOMETRY	4	0	4

### Course Detail

This course covers concepts and skills of trigonometry, linear algebra and discrete mathematics needed in basic sciences and technology. Topics include: solutions of right triangles and oblique triangles, graphs of trigonometric functions, trigonometric identities, trigonometric equations, trigonometric form of complex numbers, matrices, system of linear equations, sequences and series, permutations and combinations, binomial theorem, and discrete probability.

Course No	Course Title	LT	LB	CR
EEET 105	ELECTRONICS I	2	3	3

### Course Detail

This course provides the student with an understanding of the physical properties and principles of operation of some common solid state devices. It introduces the student to bipolar devices such as semiconductors, diodes, transistors, and unipolar devices such as junction field-effect transistors. Concepts of ideal op-amp characteristics and some basic applications are also included. It also introduces student to basic electronic circuits such as amplifier, oscillator and regulated power supply. The course is supported by laboratory experiments to study, test, and verify the characteristics of these devices and their operation in typical electronic circuits.

Course No	Course Title	LT	LB	CR
MATH 101	CALCULUS I	3	0	3

### Course Detail

This course covers the concepts of differential calculus needed in mathematics and science & technology. Topics include: limits and continuity, differentiation of algebraic and transcendental functions and partial differentiation. Emphasis is given on the engineering applications of continuity, derivatives and partial derivatives.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 201	INDUSTRIAL ELECTRONICS	2	3	3

### Course Detail

This course introduces the student with applications of power electronic devices typically used in industry including thyristors, DIACs, TRIACs, SCRs, UJT's. The course topics include rectifiers, controllers, converters and inverters. The emphasis is put on fundamentals and applications. The course gives enough background to the student to apply it to a great variety of high power products including heat controls, light controls and power supplies.

Course No	Course Title	LT	LB	CR
MATH 102	CALCULUS II	3	0	3

### Course Detail

This course covers the concepts of integral calculus needed in mathematics, basic science and technology. Topics include integration, techniques of integration, definite integrals and their applications, numerical integration, differential equations, and difference equations.

Course No	Course Title	LT	LB	CR
EEET 202	DIGITAL ELECTRONICS I	1	3	2

### Course Detail

This course provides the basic understanding and application of digital Electronics. It covers logic gates, TTL, number systems, Codes and adder, subtractor circuits, Boolean algebra laws and Rules, DeMorgan's theorem and K-map method. This course also includes flip flops, construction of flip flops using NAND/NOR gates, Conversion of flip flops. Also includes shift registers, counters and introduction to basic microprocessor (8085). Laboratory exercises support and clarify class room discussion.

Course No	Course Title	LT	LB	CR
MATH 201	APPLIED DIFFERENTIAL EQUATIONS	2	0	2

### Course Detail

This course covers some advanced topics of calculus, which are useful for applications in different fields of engineering. It includes the study of first order ordinary differential equations of different types, homogeneous and non-homogeneous second order linear differential equations, Laplace transform and its use in solving differential equations, Fourier series, simple partial differential equations, boundary value problems and numerical methods. Application problems will be solved during problem solving sessions (one hour per week).



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 203	CONTROL SYSTEMS	2	3	3

### Course Detail

The course covers the basics of process control systems. It provides fundamentals of process control in theory and practical work. It covers various types of control systems, their comparison and applications and includes the study of control system components and auxiliaries used in the industries. Application of control system theory to analyze the control system is given with the help of simulink software. Description and programming of PLC are also part of this course.

Course No	Course Title	LT	LB	CR
MATH 301	CALCULUS III	2	0	2

### Course Detail

This course is designed to cover topics of advanced calculus. It includes the topics of vectors and surfaces, parametric equations, polar coordinates, infinite series, partial differentiation of functions of several variables, and multiple integrals. Application problems will be solved during problem solving sessions (one hour per week).

Course No	Course Title	LT	LB	CR
EEET 230	PCB FABRICATION	0	3	1

### Course Detail

This course provides the students with skills in designing and fabricating a PCB design, layout and fabrication techniques. Uses of software and soldering techniques are included in the course.

Course No	Course Title	LT	LB	CR
EGT 001	INTRODUCTION TO ENGINEERING TECHNOLOGY	1	4	3

### Course Detail

This is an introductory course; the sole purpose is to provide practical instruction on basic engineering hand skills needed by the students during their study and in their future careers. The course involves students in practical work and observations in the applied workshops and laboratories at YIC. This includes welding, machining, bench fitting, Mechanical Maintenance and Electrical/Electronics laboratories.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
ENG 301	ACADEMIC WRITING I	3	0	3

### Course Detail

The emphasis of the course is based on discursal and cognitive aspects of writing; it also integrates task based activities to enhance confidence, fluency and accuracy in listening, speaking and reading. The course engages students to continue to develop skills in preparation for academic specialization or employment requiring a competent level of communicative ability.

Course No	Course Title	LT	LB	CR
ENG 302	ACADEMIC WRITING II	3	0	3

### Course Detail

This course is continuation of course ENG 301. The emphasis of the course is based on discursal and cognitive aspects of writing; it also integrates task based activities to enhance confidence, fluency and accuracy in listening, speaking and reading. The course engages students to continue to develop skills in preparation for academic specialization or employment requiring a competent level of communicative ability.

Course No	Course Title	LT	LB	CR
EEET 231	ELECTRONICS II	2	3	3

### Course Detail

Basics of linear integrated circuits are introduced. In addition to some elementary application of op-amp such as integrator, differentiator and comparator units, further applications, such as differential and instrumentation amplifiers are included. Studies shall also include generation of non-sinusoidal waveforms, VCO and pulse generation. IC timer unit and its use in applications such as clock generation and pulse generation are introduced. Students shall also studying voltage amplifiers using FETs and different types of power amplifiers.

Course No	Course Title	LT	LB	CR
EGT 002	INTRODUCTION TO DRAFTING	0	2	1

### Course Detail

This course introduces the student to technical drafting skills. It deals with the basics of freehand sketching and the use of standard drafting instruments to prepare drawings, geometric constructions, and principles of projection. The course prepares the student to understand, read and construct orthographic projections and pictorial drawings of simple objects. Internationally recognized standards are applied throughout the course.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 232	DIGITAL ELECTRONICS II	2	3	3

### Course Detail

Essentially the course introduces some advanced digital circuits and systems. First it deals with different digital logic families and their characteristics. Then data control devices like encoder, decoder, MUX, DEMUX, comparator etc, are included. Also included are different types of ADCs and DACs, memory devices and PLDs. Synchronous logic systems are analyzed and designed.

Course No	Course Title	LT	LB	CR
EEET 233	MICROPROCESSORS	1	3	2

### Course Detail

This course introduces the student with the functions, capabilities and limitations of the microprocessor. It deals with the architecture of 8085 microprocessor, identifying the function of each component, fetch and execute phases, addressing modes, fundamentals of flow charting and assembly language programming. The course also covers input/output devices and their applications in microprocessor based system, interfacing the microprocessor with input/output devices, types of data transfer schemes. Laboratory exercises support and reinforce class discussion.

Course No	Course Title	LT	LB	CR
EEET 301	ELECTRICAL CIRCUIT ANALYSIS	3	3	4

### Course Detail

In this course, the circuit theorems and the linear and nonlinear circuit parameters are reviewed. The poly-phase circuit for balance and unbalance loads analysis and their power calculations and measurements are illustrated. The Laplace function is introduced. Fourier analysis is illustrated. The harmonics and the distortion factor calculations are predicted. Two-port networks and transfer functions analysis are discussed. High and Low pass filters design and structure are described. Introduction on the electromagnetic field theory and Maxwell's equations are given. Laboratory exercises reinforce the different topics discussed in the theory class

Course No	Course Title	LT	LB	CR
EEET 234	COMMUNICATIONS I	3	3	4

### Course Detail

This course provides the student with an understanding of analog and digital communication signals, circuits and systems, amplitude and angle modulation, transmission and reception and microwave devices and systems. The course introduces communications integrated circuits including linear multiplier, voltage controlled oscillator and phase-locked loop and their uses in communications. Laboratory experiments supplement the theory.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 235	ELECTRONICS TROUBLESHOOTING AND MAINTENANCE	2	6	4
<b>Course Detail</b>				
<p>This course provides theoretical and practical skills to perform board level and component level troubleshooting of various electronic circuits and systems. It includes generalized troubleshooting techniques and step by step procedures to identify, locate the causes of trouble by the logical process of eliminating various alternatives, recognize trouble symptoms in electronic circuits and systems and correct the troubles. It also covers electronic component identification, their selection and testing, and troubleshooting of analog, digital and communication circuits. It also include testing and troubleshooting of various power supply circuits with a list of troubles expected from each specifying trouble symptoms and suspected faults. This course lab is being done using troubleshooting trainers with fault insertion facility including computer based laboratory (CBL) system with WinFACET software for troubleshooting of electronic circuits.</p>				
STAT 201	APPLIED STATISTICS	2	0	2
<b>Course Detail</b>				
<p>This course covers basic statistical concepts and techniques commonly used in data analyses particularly in science and technology. Topics include data collection and sampling techniques; frequency distributions and graphs; basic statistical measures of central tendency and variability; probability and counting rules; normal distribution; hypothesis testing; correlation &amp; regression; analysis of variance; reliability and failure data analysis; quality control charts. Application problems will be solved during problem solving sessions (one hour per week).</p>				
EEET 331	DIGITAL DESIGN	2	3	3
<b>Course Detail</b>				
<p>This course aims to provide students with an understanding of the basic concepts in the field of modern digital system design. Emphasis is placed on the study of digital design techniques using hardware description languages (HDLs) such as very high speed integrated circuit HDL (VHDL). Starting from the basic concepts of VHDL, various types of combinational and sequential logic circuit designs are covered. Finite state machine (FSM) design techniques with examples are included. The course introduces the required hardware implementation technologies for digital design. Laboratory exercises support and reinforce class discussions.</p>				
EEET 332	APPLIED ELECTROMAGNETICS	2	3	3
<b>Course Detail</b>				
<p>This course provides a quantitative understanding of the Electromagnetics (EM) phenomenon with the purpose of developing the necessary analytical approach needed by potential engineers in the fields of transmission lines, propagation and antennas. The approach is to provide the students with a basic understanding of Maxwell equations for the time varying case, hence, analyzing uniform plane wave propagation, reflection, transmission lines and antennas. The laboratory component of the course is intended to emphasize the engineering applications of electromagnetics, namely, transmission lines and antennas. Experiments include power, standing wave ratio (SWR) and impedance measurements. The antenna laboratory is used to investigate the performance and characteristics of several antenna configurations.</p>				



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 333	ELECTRONICS III	3	3	4

### Course Detail

The course covers advanced aspects of analog electronics. The topics include: frequency response of metal oxide semiconductor (MOS) and bipolar junction transistor (BJT) amplifiers, differential and multistage amplifiers, filters and tuned amplifiers, and communication circuits. The course is supplemented by laboratory exercises consisting of analysis and simulations using software design suit.

Course No	Course Title	LT	LB	CR
EEET 334	ELECTRONIC PROTOTYPING AND DESIGN	0	6	2

### Course Detail

This is a practical laboratory based course which introduces the student to Computer Aided Design (CAD) tools. The students analyze, simulate, and implement mixed analog and digital circuits using a software design suit. Students learn the use of modern PCB-Plotters for the preparation of PCBs. Troubleshooting and analysis of the circuits are made. The writing and presentation skills of the reports are emphasized.

Course No	Course Title	LT	LB	CR
EEET 431	DIGITAL SIGNAL PROCESSING	3	3	4

### Course Detail

This course introduces the basic concepts of digital signal processing (DSP) and demonstrates some of its practical applications. It provides an overview of representation of continuous and discrete-time signals related to DSP in time and frequency domains. The course includes representation and analyses of systems (linear time-invariant and discrete-time systems), and describes the sampling, analog-to-digital and digital-to-analog conversion of signals. The course provides mathematical tools (transforms, and algorithms) used in DSP, and it covers fundamentals, techniques, implementation and design of FIR and IIR filter. The course could be considered as a prerequisite course for many multimedia related courses (speech processing, image processing, pattern recognition, and so on); henceforth it gives the necessary background for successful graduate-level research in DSP.

Course No	Course Title	LT	LB	CR
EEET 432	MICROCONTROLLER SYSTEM DESIGN	2	3	3

### Course Detail

This course aims to provide students with an understanding of the basic concepts of microcontroller and its applications. Starting from the basic architecture of Microcontroller, various types of hardware blocks and their interconnectivity, serial, parallel and interrupt operation and basic assembly language instructions set are covered in this course. Additionally, Design and interfacing examples are also included in the course. Laboratory exercises support and reinforce class discussions.



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
EEET 433	COMMUNICATIONS II	3	3	4
<b>Course Detail</b>				
<p>This course provides the student with a comprehensive understanding of the telephone communication system. The course will discuss the operation and basic functions of the telephone set, analysis of different types of telephone exchanges and telephone networks, the fundamental concept of telephone traffic engineering and describe different types of switching techniques. The course includes an explanation of cellular telephone concepts and the operation of different cellular telephone systems. The course explores the data communications fundamentals and introduces the analysis of satellite communication systems. The final part of the course provides a discussion of the satellite multiple accessing arrangements within the text, there are numerous examples that emphasize the most important concepts. Laboratory experiments are used to give practical reinforcement of the theories dealt with in the course</p>				
EEET 434	DATA ACQUISITION AND CONTROL	2	3	3
<b>Course Detail</b>				
<p>This course introduces the students with discrete sensors of different physical phenomenon and their output signals. Signal conditioning techniques are explained. The use of computer for data acquisition is discussed. Different Bus and interface standards are explained. Plug-in boards and other data acquisition devices are described. Data analysis, control techniques and algorithms are covered. The course is supplemented by laboratory exercises.</p>				
EEET 435	NETWORKING ENGINEERING	2	3	3
<b>Course Detail</b>				
<p>The course is devoted to principles and techniques used in designing data networks. Data communication fundamentals covering the key aspects of transmission, interfacing, link control, and multiplexing are covered. Wide Area Networks (WANs) examining the internal mechanisms and user-network interfaces are discussed. Packet and circuit switching along with Asynchronous Transfer Mode (ATM) and wireless WANs are discussed. Local Area Networks (LANs) covering transmission media, topologies and access control protocols are included in the course. The course also explores the principles and mechanisms required for the exchange of data among computers, workstations, servers, and other data processing devices.</p>				
EEET 436	FIBRE OPTIC COMMUNICATIONS	3	3	4
<b>Course Detail</b>				
<p>The course presents comprehensive and in depth introduction to optical fiber communication system. The course discusses the basic light wave theory and its application to the optical fiber system. The course describes different types of optical fiber waveguides and amplifiers. The course discusses the losses in optical fiber. The theory and operating characteristics of optical sources, such as LEDs and Laser Diodes are discussed. An explanation of different modulation, demodulation, and multiplexing techniques are included. The final part of this course provides the discussion of the optical fiber cables, fiber joints, splicing techniques, fiber connector and fiber couplers. The course allows students to learn the optical fiber system and networks. Laboratory experiments are used to give practical reinforcement of theories dealt with this course.</p>				



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Course No	Course Title	LT	LB	CR
EEET 437	SENIOR DESIGN PROJECT	2	6	4
<b>Course Detail</b>				
<p>The course focuses on the design process; from concept to reality. The students identify projects and get approval from the faculty members for schematics and parts list. They also identify customers and their needs and thus develop target specifications. They also suggest alternate designs and give a comparison justifying their method. The project is first developed and analyzed using design software. The final design is executed physically so that the finished device is ready for users. The activity ends with the written report, oral presentation and evaluation.</p>				
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Course No	Course Title	LT	LB	CR
MATH 302	ENGINEERING MATH	2	0	2
<b>Course Detail</b>				
<p>The aim of this course is to cover advanced topics in mathematics which are applicable to engineering problems. The course covers vector analysis including vector fields, gradient, divergence, curl, line and surface integrals, and Green's, Gauss' and Stokes' theorems; complex variable analysis including power series, differentiation and integration of complex functions; and Cauchy' and residue theorems, and Fourier analysis including complex Fourier series, complex Fourier integral, Fourier transforms, discrete Fourier transform, and fast Fourier transform. Application problems will be solved during problem solving sessions (one hour per week).</p>				
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Course No	Course Title	LT	LB	CR
ARAB 401	ARABIC COMMUNICATION	3	0	3
<b>Course Detail</b>				
<p>This course develops the students' ability to generate high quality business correspondence in Arabic. It deals with different types of business letters such as customer inquiries, responding to complaints, arranging business appointments, and handling company communications. The course emphasizes appropriate vocabulary for particular business situations and tasks, formatting and layout of correspondence, organizing the contents in the most effective sequence, and communicating a wide range of information efficiently.</p>				
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Course No	Course Title	LT	LB	CR
MGT 301	INTRODUCTION TO MANAGEMENT	3	0	3
<b>Course Detail</b>				
<p>This course introduces students to the major functions in the organization/firm, (Marketing, Human Resource Management, Finance and Accounting, Production and Information Systems). In addition, it deals with issues involving Management and Organizations, the Organizational Environment and Management thought.</p>				



## Catalogue Description of the courses for B.Sc. Degree Program in Electronics Engineering Technology

Course No	Course Title	LT	LB	CR
PE 001	PHYSICAL EDUCATION I	0	2	1
<b>Course Detail</b>				
The purpose of this course is to give students the opportunity to take part in three different structured physical education activities. Each activity consists of eight to ten lessons. The activities to be covered in this course are Swimming I, Handball I, and Basketball I.				
PE 002	PHYSICAL EDUCATION II	0	2	1
<b>Course Detail</b>				
The purpose of this course is to give students the opportunity to take part in four different structured physical education activities. Each activity consists of eight to ten lessons. The activities to be covered in this course are Football, Volleyball, and Track and Field (Athletics).				
PE 101	PHYSICAL EDUCATION	0	2	1
<b>Course Detail</b>				
The purpose of this course is to give students the opportunity to take part in three different structured physical education activities. Each activity consists of eight to ten lessons. The activities to be covered in this course are Swimming II, Handball II, and Basketball II.				
PHYS 101	GENERAL PHYSICS	3	3	4
<b>Course Detail</b>				
The aim of this course is to provide the students with basic principles of general physics. It deals with motions, dynamics, work and energy, fluids, heat, electrostatics, electricity and magnetism and light. Laboratory activities reinforce the theoretical aspects of the course.				



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Course No	Course Title	LT	LB	CR
PHYS 201	GENERAL PHYSICS II	2	3	3

### Course Detail

The aim of this course is to cover advanced topics in physics. Topics include circular motion, linear momentum, rotational motion, thermodynamics, vibrations and waves, electromagnetic waves, sound, optics, and modern physics and its application. Laboratory activities will provide skills to students and verify experimentally some of the physical phenomena / principles taught in theory.

Course No	Course Title	LT	LB	CR
SOCS 401	TECHNOLOGY AND SOCIETY	3	0	3

### Course Detail

This course deals with the evolution, meaning and nature of technology, the effect of technological progress on society, and the role of technology in meeting the needs and wants of the society. Specifically, it examines any changes in society arising from technological innovation and the effects on resources involved in technological systems such as people, information, materials, machines, energy, capital and time.

Course No	Course Title	LT	LB	CR
ECON 401	ENGINEERING ECONOMICS	3	0	3

### Course Detail

This course provides the student with an understanding of the basic concepts of money and its management, business and project evaluation, financial aspects of engineering projects and fundamentals of cost-benefit analysis. Specifically, it examines the role of engineers in business, cost and investment concepts, capital budgeting, project cash flows, project risks and replacement decisions.