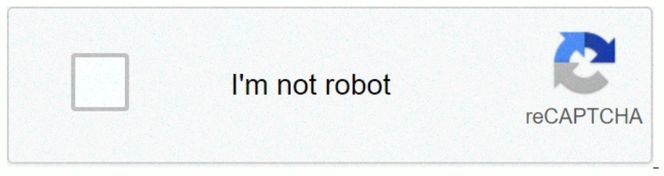

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This program requires you to complete the Electromechanical program before registering. Here are the introductory courses included in Electro-Mechanical Technologies: Preliminary Classes - Electro-Mechanical Technologies Program: Electrical Basics Basics of Solar Electrical Cabling - Residential Electrical Wiring - Commercial Cooling Bases for Refrigeration Systems and Comfort Systems Practices - Residential Comfort Systems - Commercial Advanced Troubleshooting Click here for class descriptions. The course presents the basic concepts of the pre-algebra course. Students will be introduced to integers, fractions and decimal places, integers, operation order, percentages, signed numbers, measurements, geometry, probabilities, and basic algebra terms. This course develops written communication skills with an emphasis on understanding the writing process, analyzing readings and practicing writing for personal and professional applications. This course includes testing common pneumatic control systems: assessment, maintenance, operation and troubleshooting of air stations, controlled devices, controllers, receiver controllers, transmitters, relays and switches that form a pneumatic control system. The introduction to air compressors that drive the pneumatic system is also discussed, as well as mathematical concepts similar to those described in liquid piping, used for advanced testing of air and heat calculation properties using a psychrometric graph, along with information, calculations and formulas used in fan operation and analysis, channel operation and air distribution, air outlets, air balance, belt and disc analysis and air filters. This course includes techniques and calculations (including expression evaluation, operation order, on-off symbols, and power exponents) to determine the load and size requirements of heating and cooling equipment. Includes a 24-hour method for calculating the load and size of residential and commercial air conditioning and heating equipment, as well as commercial refrigeration equipment. In addition, the course includes the use of single- and three-phase engines. Applications include engine types, operation, components, control connections, motor feeders and branch circuit lines, motor protection, motor control circuits and motor connections and tests, connections, transformer diagrams and automatic transformers for low- and high-voltage systems. This course covers the causes and manner of compressor failure, how compressor failures are detected, and how compressor failures are repeated. Commercial, efficient hermetic reciprocating compressors are covered, as well as rotary and spiral compressors. It also includes maintenance of reciprocating, rotary and centrifugal air compressors compressed air systems. This course also covers the types of distribution systems, materials and accessories found in water cooling systems. Concepts including expression evaluation, operation order, inclusion symbols, power exponents, proportions, and surface applications applied to liquid pipelines are also included. The set includes: calculations and methods for determining pressure drops and friction of pipes in the water and cooling chain; techniques and methods for calculating the size of the suicle, outlet and liquid lines of individual and multiple piping installations in HVAC equipment and water lines; and methods and procedures to the size of water pumps and calculate the pump head. This course introduces the transformer concept and theories used in the construction industry and technical mathematics. Topics include: Transformer configurations, cooling, cabling and operation order, coefficients, exponents, algebraic methods, and constant numbers. Students demonstrate their skills through participation, exercises and periodic quizzes and exams. This course covers the history and theory of the cooling tower. The kit includes waste heat dissipation, maintenance and inspection of internal and external structures, mechanical equipment including fans, gearboxes, power transfer and engine. It also includes various types of cooling towers, water distribution systems, modernization of existing cooling towers, water treatment and methods of filtration and purification of water. It also includes the installation, commissioning and troubleshooting of 15-200 tons of conventional piston chillers. The kit includes conventional chiller regulators, stepper controllers used in chiller capacity, electronic control and operation, microprocessor chiller control, operation, problem solving and flotronic chiller operation and problem solving. This course covers differences in components and work between centrifugal and discharge chillers. The kit includes centrifugal compressor testing, operation, components and troubleshooting. Applied, operational sequence, startup, application troubleshooting, and extended microprocessor service panel operation are covered. Finally, the central central central central central station central operation and troubleshooting are equipped with product integrated control units (PIC). In addition, this course includes steam and direct fired absorption systems, as well as screw compressor systems. The kit includes procedures for system operation, system components, system control, control sequences, startup, maintenance, troubleshooting and installation procedures for both types of systems. It also includes a system of This course includes the operating rules of the boiler under low pressure. The set includes boiler power supply, fittings, accessories for supply water, steam and combustion control devices, design control and water heating systems. Rules Policy operation of the boiler under high pressure. The set includes steam boilers, packaged and field boilers, steam system, supply water systems, fuel system, fuel and fuel water heaters, pumps, regulators, traps, overheating, heating and pressure reduction systems and steam boiler operation. This course includes techniques and procedures for the operation and evaluation of the boiler. The set includes the installation of an oil-fired boiler, the operation of the steam boiler, the operation and evaluation of the boiler for hot water, the commissioning of the boiler, service and problem solving, as well as boiler instruments, water treatment and the safety of the boiler room. Also provided the basics of operation of many boilers, hydronic systems, zoning rules, system size and calculations, zone valves, boiler selection, as well as boiler pipelines, installation and problem solving. This course includes techniques and procedures for the inspection and maintenance of the boiler and chiller. The kit includes preventive and predictive maintenance procedures, boiler room and heating equipment maintenance, fire protection and construction, and maintenance of centrifugal, piston, OPAC and modular liquid chillers. This course covers the basics and procedures necessary to start and run a personal business, including topics related to writing successful business plans, licensing requirements and information, various types of business organizations, business assets, and business activities. This course covers the basics, components, and operations of computers and computer systems. This includes an introduction to computer basics, computer components and operations, hardware configuration, and applications. It also includes demonstration and the use of various industry-related programmes. This course highlights the concept that the service is produced and consumed simultaneously and applies to communication and active listening methods to ensure that this transaction is profitable and positive. It includes service techniques in dealing with customers in a positive way. In this course, students learn academic theory, review case studies, and complete critical thinking exercises that help students start a small business and related communication skills with an emphasis on professionalism. FACULTY OF MECHANICAL AND MAINTENANCE ENGINEERING Dr. Michael A. Conteh – Senior Lecturer & HOD [B.Eng. (USL – Sierra Leone); M.Sc. (UCT - South Africa; Ph.D. (SIUC - USA] Background Department of Mechanical Engineering and Maintenance is one that combines two engineering disciplines - mechanical engineering and maintenance engineering. While mechanical engineering designs and analyses machines of all types (including but not limited to cars, aircraft, power generation systems, biomedical instrumentation, robots, household appliances, fluids interacting with the machines and materials from which the machines are constructed), maintenance engineering is engaged in the practice of ensuring that these machines/products live their service life and optimal cost. Thus, the department's goal is to create mechanical and maintenance engineers that will be able to apply knowledge of mathematics, science and engineering to design systems, components or processes to meet society's desired needs in realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability. The program leading to the B.Eng. (Hons.) In mechanical engineering and maintenance is a five-year program with the first year spent doing foundation courses that are common to all engineering disciplines. These courses, which are taught at the Faculty of Pure and Applied Sciences, include physics, chemistry and mathematics. Students are exposed to department modules in the second year. During the transition period from year 4 to year 5, students are placed in the industry for at least four months, where they are exposed to the basics of real engineering practices and solving the problem. Below are the courses offered in the Department of Mechanical Engineering and Maintenance: ROK 1 SEMESTER 1 CHEM 115 – Chemistry for Engineers I; FOST 110 – Foundation Course; FENG 110 – Workshop technique; FENG 111 – Technical writing and professional communication; FENG 113 – Engineering Principles; FENG 114 – Statics; MATH 110 – Introduction to the bill; MATH 111 – Introduction to applied mathematics; MENG 110 – Engineering Graphics; PHYS 111 – Physics. SEMESTER 2 CHEM 125 – Organic chemistry for engineers; FENG 120 – Workshop practice; FENG 123 – Engineering Principles II; FENG 124 – Introduction to computer-aided design; FENG 125 – Dynamics; MATHEMATICS 120 – Bill I; MATH 121 – Applied mathematics II; PHYS 121 I Physics II. YEAR 2 SEMESTER I FENG 212 – Electricity used I, FENG 213 – Computer-aided design; MATH 210 – Account II; MATH 212 – Methods of Applied Mathematics II; MENG 213 – Applied Mechanics I; MENG 214 – Thermodynamic engineering I. SEMESTER 2 EENG 222 – Electricity used II; MATH 220 – Account II; MATH 225 – Introduction to numerical analysis; MENG 220 – Computer-aided design; MENG 223 – Applied Mechanics II; MENG 224 – Fluid Mechanics I. YEAR 3 SEMESTER I EENG 314 – Energy I; FENG 310 – Mathematics Engineering I; FENG 311 – Technical writing and presentation; MENG 312 – Thermodynamics Engineering II; MENG 313 – Materials Mechanics; MENG 314 – Production processes; MENG 315 – Plants, components and systems. SEMESTER 2 FENG 320 – Engineering Mathematics II; MENG 321 – Energy Research; MENG 322 – Liquid II; MENG 323 – Machine Mechanics I; MENG 324 – Industrial Engineering; MENG 325 – Production Processes II. YEAR 4 SEMESTER 1 FENG 410 – Mathematics Engineering III; FENG 411 – Management procedure and organisation; MENG 410 – Engineering thermodynamics; MENG 411 – Fluid Mechanics III; MENG 412 – Industrial economics; MENG 415 – Machine Mechanics II; MENG 416 – Solid mechanics; MENG 417 – Design & Drawing Engineering. SEMESTER 2 FENG 420 – Mini Design; FENG 421 – Engineering Seminar; MENG 420 – Heat transfer; MENG 421 – Turbo Machines; MENG 422 – Industrial Management; MENG 425 – Control Theory I. YEAR 5 SEMESTER 1 MENG 500 – Dissertation; FENG 510 – Entrepreneurship and engineering innovation; FENG 511 – Professional Ethics; MENG 510 – Power Plans Engineering; MENG 514 – Production Engineering I; MENG 515 – Materials Technology; MENG 516 – Mechanical vibration; MENG 517 – Measurement & Instrumentation. SEMESTER 2 MENG 500 – Hearing; MENG 520 – Cooling and air conditioning; MENG 524 – Production Engineering II; MENG 528 – Reliability and quality control engineering. The profile of academics, technicians, and other support

staff can be found in the tables below. Academic Staff Profile No. Name Qualified Areas of Teaching/Research Interest Date of First Appointment & Designation 1 Dr. Michael A. Conteh B.Eng Hons. (USL); M.Sc. (SA), PhD (USA); MSLIE TEACHING AREAS: Undergraduate thermodynamics; Fluid mechanics; Technical Design /Postgraduate Drawing: Power Production Systems RESEARCH INTEREST: Energy Recovery & Storage; Hydropower engineering; Energy modelling; energy policy; energy efficiency. September 2000 Senior Lecturer and Head of Department 2 Dr. Kelleh G. Mansaray B.Sc. (USL) 1986; M.Sc. (Germany) 1992; Doctorate (Canada) 1998; FSLIE TEACHING AREAS: Thermodynamics of undergraduate engineering; Fluid mechanics; Energy research; Technical Design / Postgraduate Drawing: Renewable Energy Technologies RESEARCH INTEREST: Renewable Energy Technologies; energy efficiency and policy; rural development/poverty reduction; Mitigating greenhouse gas emissions; Solid Waste Management & Use September 2008 Associate Professor/Dean of Faculty 3 Dr. Ogulande R. Davidson B.Eng. (USL); M.Sc. (Manchester); Doctorate (Salford); FAAS; c.eng.; fslie. TEACHING AREAS: Bachelor's Degree in Professional Ethics: Introduction to Energy Policy and Sustainable Energy Resources; Energy Efficiency & Energy Economics RESEARCH INTEREST: Climate Change; Energy Efficiency & Protection September 1979 Professor (on contract) 4 Dr. Sheriff Kamara B. Soc. Sc, (USL); B.Eng (USL); MBA (United Kingdom); MSc (United Kingdom); ACCA (United Kingdom); Dr hab. (United Kingdom). TEACHING AREAS: Undergraduate engineering graphics; Design computer-generated; Industrial Economics & Management; Postgraduate materials science: Methods of research STUDIES OF INTEREST: Energy Energy Incinerators; Waste Management January 2013 Lecturer I 5 Dr. Mohamed Konneh B. Eng. (USL); PgDTE (Islamic University, Dhaka); M.Eng. (Polytechnic, Malaysia); Doctorate (Technical University, Malaysia). Undergraduate engineering graphics; Production processes; Measurement & Instrumentation August 2019 Senior Lecturer 6 Mr. Sahr T. Nyalloma B.Eng Hons. (USL); M.Sc. (Toledo, USA) TEACHING AREAS: Undergraduate Engineering Principles; Engineering of thermodynamics; Machine mechanics; Mechanics of solids; Control theory; Engineering design / drawing STUDIES OF INTEREST: Mechanical vibrations in thermal and hydropower plants. September 1995 Lecturer I 7 Mr Edward B. Lamin B.Eng Hons (USL) 1994; Dip.Ed. (USL) 2000; 2000; M.Sc (University of Manchester, UK) 2005 TEACHING AREAS: Undergraduate Living Procedures & Organisation; Quality Control & Reliability Engineering; Engineering Design /Drawing RESEARCH INTEREST: Maintenance Engineering Quality Control & Reliability Engineering Sept. 2005 Associate Lecturer I 8 Mr. Sidi Bakarr B.Eng. (USL); MPhil. (USL), TEACHING AREAS Undergraduate Plant Components and Systems; Production engineering. RESEARCH INTEREST: Engineering Management Energy Systems April 2017 Associate Lecturer II 9 Mr. Robert E. Jonjo B.Eng Hons. (USL) TEACHING AREAS: Undergraduate statics; Dynamics; Mechanics used; Material mechanics. INTEREST IN RESEARCH: Mechanical and material vibration 2018 Research Teaching Assistant No. Name qualification 1 Mr. Victor S. O. Cole Chief Laboratory Technician B. Eng. (General) 2 Mrs. Salma R. Kamara Secretary Cert. (Secretariat for Studies); Diploma (MS Applications) 3 Mr. Basiru Kamara Technik Secondary Education 4 Mr. Alfred Johnson Technik Cert. in Solar Installation 5 Mr. Mohamed Lebbie-Conteh Messenger / Thud BECE BECE