



SYSTEMS ENGINEERING ADMISSIONS REQUIREMENTS AND PROGRAMMES.

Philosophy and Objective of Systems Engineering Programme

The Systems Engineer specializes in engineering modeling and the general deployment of cybernetics and artificial intelligence concepts in the planning, design, operation and management of engineering activities especially in areas such as:

- Information and Communication Technology
- Reactor devices and processes
- 'Energy systems
- Engineering manufacturing processes
- Operations, control and monitoring of electro-mechanical devices and systems
- Engineering graphics, simulation and animation
- Risk management in engineering systems.

In fact, when large-scale problems are under study, few people can be expected to be fully knowledgeable in the complete span of factors and parameters, which must be considered. For such cases, interdisciplinary teams arrive at solutions, where each member contributes his own special expertise. In order to work effectively on such teams, each member needs to be aware of the fundamental systems and design aspects of the problem.

The programme provides students with basic training and skills in analysis, designs, monitoring and control of engineering systems. The programme stresses the importance of humanistic and societal concerns as they shape the designer's approach to the solution of problems confronting modern society. The Systems Engineer therefore strives to serve the dual needs of the society for the design of reliable and efficient systems, whilst protecting the overall integrity of the host environment.

The objectives of the programme are:

- To bridge the gap between management/decision science and the Engineering profession through the integration of decision Science/Management courses to the traditional engineering discipline
- To produce engineers with multidisciplinary skills for today's complex economy,
- To impart analytical and cutting-edge computing skills in Engineering training,
- To initiate and carry out engineering design, and
- To engage in management and to pursue research and development

UNDERGRADUATE ADMISSION REQUIREMENTS AND GENERAL INFORMATION

Admission Requirements of Bachelors degree in Systems Engineering, a student must pass a **minimum** total number of units as follows:

- UTME - **175 units**
- 200L Direct Entry - **151 units**

General Information Registration

- I. The candidate signs and returns his/her letter of acceptance as he/she is admitted. Registration of the candidate then commences (see Figure 1). After registration the candidate is then qualified to be referred to as a student of the University of Lagos. Admission into the B.Sc. programme could be through: UME, University Foundation Programme (Diploma II) or Direct Entry.
- II. UME applicants are required to have five credits at one sitting in the Senior School Certificate Examinations or equivalent (SSCE) – including Math, Further Math, Physics, Chemistry and English Language. In the weighted score from the UTME and Post-UTME assessment, varying cut-off marks are categorized under: “Merit List”, “Catchment” and “Educationally Less Disadvantaged States (E.L.D.S.)”.
- III. DIPLOMA / JUPEB (Foundation) applicants: Students coming into the programme through Foundation program are expected to have an acceptable grade point aggregation on the completion of the programme.
- IV. DIRECT ENTRY applicants: Students coming into the programme through DIRECT ENTRY are expected to have a CGPA of at least an “UPPER CREDIT” in OND / HND for entry into 200L & 300L respectively or Advanced Level passes in Mathematics, Physics and Chemistry for entrance into 200L.

Graduation Requirements

To be eligible for the award:

- I. Online course registration starts at the beginning of each semester and ends three weeks into the semester.
- II. You are allowed to delete courses online without any consequences within the first seven weeks of a semester. Make sure that the course adviser is informed appropriately with such changes.
- III. There is no provision for withdrawal after the seventh week. Such a case can only be approved by the senate.