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intelligence may include soft computing (fuzzy logic, neural networks, genetic algorithms/evolutionary computing, probabilistic methods, etc.). Techniques may cover frequency and time domains, linear and nonlinear systems, and

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deterministic and stochastic processes. Hybrid techniques of mechatronics that combine conventional and intelligent methods are also included. First published in 1972, this journal originated with an emphasis on conventional control systems and

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programmable logic controllers,  
sequencing and timing controls,  
and control algorithms. (iv)  
Software and data acquisition  
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Mechatronic systems are  
composed of mechanical and

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electrical components, referred as “smart” systems because of the integration of sensors, actuators, and control systems. Essential part of a mechatronics system is the measurement system that senses the variations in the physical parameters, such as

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The mathematical model is written in the form of the ratio of Output/Input, if the models are turned into a function of 's' it is correctly called a transfer function and this is usually

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denoted as  $G(s)$ . Input Output  
 $G(s)$  The output and input are  
changed from functions of time to  
a function of  $s$ .

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*Unit 57: Mechatronic System*

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of mechanical systems. Definition of Mechatronics It is a multidisciplinary approach to product and manufacturing system design (Figure).

## *LECTURE NOTES ON MECHATRONICS*

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Control Logic Objectives • Understand how digital systems may be divided into a data path and control logic • Appreciate the different ways of implementing control logic • Understand how shift registers and counters can be used to

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generate arbitrary pulse sequences • Understand the circumstances that give rise ...

*Control Logic*

A programmable logic controller (PLC) or programmable controller is an industrial digital computer



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which has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, or robotic devices, or any activity that requires high reliability, ease of programming and process fault diagnosis.

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