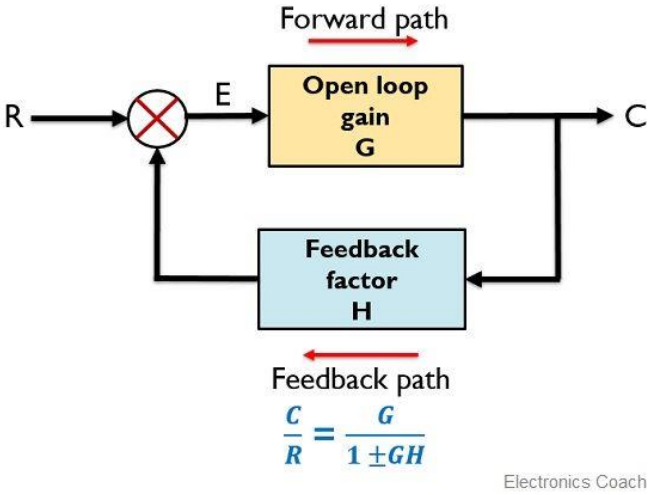
BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

DESIGN OF FEEDBACK SYSTEMS



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Fee: Rs. 400/-

Feedback systems are at the heart of automatic control systems. The fly-ball governor to control the speed of steam engines was invented by James Watt in 1770. It was about 100 years later that Maxwell analyzed the dynamics of the fly-ball governor. Feedback is in servomechanisms also. In this course we will see how to build positive and negative feedback systems in mechanical, electromechanical, electrical, chemical and electronic systems. Many applications from real life are studied and analysed. Some mathematical techniques such as root locus and Nyquist's criterion are touched upon. Today computers form the basis of many feedback systems.

Dates: 12-06-2023 to 16-06-2023, 8.30am to 4.30pm

Venue: A-301, Department of Electrical and Electronics Engineering

Course Co-ordinators

1) Dr. Sanjay Lakshminarayanan, Professor, EEE Mobile: 9148902185

2) Mrs. Shilpa G, Assistant Professor, EEE Mobile: 9986299412

Register at https://projects.bmsit.ac.in

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Schedule of the open course: Design of Feedback Systems

Department of EEE

Course Schedule: Design of Feedback Systems

2022-2023

Sl No.	Date	Topics covered		Topics covered		Topics covered	Assessment and Feedback
		8:30 to 10:30 am	**10:30 to 10:50 am**	**10:50 to 12:50 pm**	**12:50 to 1:50 pm**	**1:50 to 4:00**	**4:00 to 4:30 pm**
1	**12.06.2023**	Introduction and Scope	**TEA BREAK**	Historical information	**LUNCH BREAK**	Lab activity	Feedback
2	**13.06.2023**	Mechanical feedback systems		Positive feedback systems		Lab-2 (Inside watches)	Feedback
c3	**14.06.2023**	Oscillators		Analog oscillators		Building some oscillators	Feedback
4	**15.06.2023**	Thermostats, -tive feedback		SMPS with closed loop feedback		MATLAB/ SIMULNK	Feedback
5	**16.06.2023**	Design of control systems		Types of controllers		MATLAB	Feedback