DIGITAL CIRCUITS

SWAYAM Prabha Course Code - E10

PROFESSOR'S NAME	Prof. Santanu Chattopadhyay
DEPARTMENT	Electrical and Electronics Engineering
INSTITUTE	Indian Institute of Technology, Kharagpur
COURSE OUTLINE	Besides course outline, it should also indicate if there are any pre-requisities (i.e, prior knowledge) required .
	Digital circuits are part of any electronic design today. This also happens to be one of the core subjects for the undergraduate students in Electronics, Electrical and Computer Engineering. It forms the basis of many of the next level courses. The proposed course on digital circuits will cover all the fundamental concepts in digital design. It will primarily focus on the prescribed GATE syllabus for Electronics and Communication Engineering (ECE) specialization. The course will start with the representations of numbers – different number systems and conversion between them, representation of integer and real numbers etc. This will be followed by combinational and sequential circuit design techniques. Data converters and semiconductor memories will be covered. Microprocessor 8085 will be discussed as a complete digital system example. Designed primarily as a single course covering the digital circuits portion of GATE syllabus, the course will also be helpful for any other aspirant willing to learn digital electronics principles comprehensively in today's perspective.

COURSE DETAILS

S. No	Module ID/ Lecture ID	Lecture Title/Topic

1	**L1**	Introduction
2	**L2**	Introduction
3	**L3**	Number System
4	**L4**	Number System
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References if Any: