

## NPTEL LINKS

**Sem** :- M.Tech. /I

**Branch:** ECE

**Subject** :- Advanced Microprocessor and Microcontroller

<b>Chapter No</b>	<b>Topic</b>	<b>NPTEL LINK</b>
<b>1</b>	Design of basic microprocessor architecture, addressable memory, Internal data bus, memory addressing	<a href="http://nptel.ac.in/courses/106108100/1">http://nptel.ac.in/courses/106108100/1</a> <a href="http://nptel.ac.in/courses/106108100/5">http://nptel.ac.in/courses/106108100/5</a>
<b>2</b>	Instruction Set, Mnemonics, Basic Instruction Types, Addressing modes, Microprocessor I/O connecting I/O port to Microprocessor, Polling and Interrupts	<a href="http://nptel.ac.in/courses/106108100/3">http://nptel.ac.in/courses/106108100/3</a> <a href="http://nptel.ac.in/courses/106108100/6">http://nptel.ac.in/courses/106108100/6</a>
<b>3</b>	Introduction 8051 architecture and programming model. Internal RAM and registers, I/O parts, Interrupt system & Instruction sets	<a href="http://nptel.ac.in/courses/106108100/5">http://nptel.ac.in/courses/106108100/5</a> <a href="http://nptel.ac.in/courses/106108100/7">http://nptel.ac.in/courses/106108100/7</a>
<b>4</b>	Intel X86 family of advanced Microprocessor, programming model for 86 family. X85 addressing modes, instruction set, hardware. Motorola 68 XXX family of microprocessor, 68 XXX addressing modes	<a href="http://nptel.ac.in/courses/108102045">http://nptel.ac.in/courses/108102045</a> <a href="http://nptel.ac.in/courses/108102045/">http://nptel.ac.in/courses/108102045/</a>
<b>5</b>	Data Communication, parallel I/O serial communication, Serial interface and UART modems, I/O devices, D/A, A/D interface	<a href="http://nptel.ac.in/courses/106108100/8">http://nptel.ac.in/courses/106108100/8</a>
<b>6</b>	Introduction to the Design Process, Preparing the specifications, Developing a design, Implementing and Testing and design	<a href="http://nptel.ac.in/courses/106108100/8">http://nptel.ac.in/courses/106108100/8</a>