



**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**

(An Institution of National Importance under NITs Act, Established by Govt. of India)

**मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर**

**JLN Marg, Jaipur-302017 (India)**

Code: CSP317	Computer Network Lab	Credit: 02
		L-T-P:(0-0-3)
Course Content	<p>The following proposed coverage are broad guiding areas lab. The instructor offering the course in consultation with the theory offered can adopt further variations in tune with CP-325.</p> <ol style="list-style-type: none"><li>1. Programming for data encoding, CRC detection and Correction.</li><li>2. Estimation of network delay through OS utilities.</li><li>3. Simulation and Emulation of Bus and Star topology, DLC, MAC protocols using Benchmark LAN trainer kits.</li><li>4. Packet measurement and observation using network sniffing tools.</li><li>5. Use of sniffers for protocol dynamics.</li><li>6. Introduction to Socket programming and application development for internet.</li><li>7. ns-3 based assignments</li></ol>	
Important Text Books/References	<ol style="list-style-type: none"><li>1.Computer Networks and Internet: D.E. Comer, Pearson</li><li>2.TCP/IP Illustrated, W. Stevens, Vol 1-2, Pearson Eds</li></ol>	