



<b>Course:</b> M.Tech	<b>Name of Faculty:</b> UNNIMAYA N
<b>Topic:</b> ELE 3201 BROADBAND COMMUNICATION	<b>Semester:</b> II
<b>Lecture Hall:</b>	<b>Timings:</b> as per CBCS

<b>Week and date</b>	<b>Lecture topics</b>	<b>Assignments</b>	<b>Remarks</b>
Week 1 (3 <sup>rd</sup> January 2017)	<b>Module I</b> Network Architectures – Telephone Network – Internet and Intranets – Limitations of today's Network Infrastructure.		
Week 2 (9 <sup>th</sup> January 2017)	Classification of Applications. Traffic Requirements and QoS Requirements	<b>Assignment I</b> BISDN- Advantages of BISDN Technical & Strategic, Overview and basic elements of BISDN Networks	
Week 3 (16 <sup>th</sup> January 2017)	<b>Module II</b> Switched Point to Point Architecture, Packet Switching, Fast Packet Switching,		
Week 4 (23 <sup>rd</sup> January 2017)	Network Operations, Virtual Channel and Virtual Path. Traffic Management:		
Week 5 (30 <sup>th</sup> January 2017)	<b>Module III</b> Connectivity and Functional Requirements. Residential Broadband Service Architecture – Residential Access Networks	<b>Assignment I Submission</b>	
Week 6 (6 <sup>th</sup> February 2017)	<b>First Internals</b>		
Week 7 (13 <sup>th</sup> February 2017)	CO and Headend Networks, Broadband Internet Access, In-Home Network and End-to-end Protocol/ model.		
Week 8 (20 <sup>th</sup> February 2017)	<b>Module IV</b> Network Architecture – Subscriber Loop Architecture, xDSL characteristics, xDSL Technologies, HDSL, ADSL, SDSL and VDSL		

Week 9 (27 <sup>th</sup> February 2017)	<b>Seminar</b>		
Week 10 (6 <sup>th</sup> March 2017)	ADSL based broadband service architecture – ADSL based ATM-to-the-Home Architecture – DSLAM and Broadband Internets		
Week 11 (13 <sup>th</sup> March 2017)	<b>Module V</b> Legacy Cable Network Architecture – Hybrid Fibre Coax Network Architecture	<b>Assignment II</b> Residential Broadband Architecture	
Week 12 (20 <sup>th</sup> March 2017)	Fiber Nodes end to-end Protocol Architecture.		
Week 13 (27 <sup>th</sup> March 2017)	<b>Second Internals</b>		
Week 14 (3 <sup>rd</sup> April 2017)		<b>Assignment II submission</b>	