

Course Title – High Speed Computer Networks

Course Code – ECEG 6505

Course contents

Chapter One: Introduction

- Requirements of high speed networking
- High speed network technologies

Chapter Two: High speed technologies

- Frame relay
- Asynchronous transfer mode (ATM)

Chapter Three: High speed LANs

- Fast Ethernet
- Gigabit Ethernet

Chapter Four: Congestion and traffic management

- Impact of congestion
- Congestion control mechanisms
- Traffic management

Chapter Five: High speed network protocols

- TCP congestion control
- Protocols for QoS support

Chapter Six: Internet routing

- Interior routing protocols
- Exterior routing protocols
- Multicasting

References

1. Stalling W., 2002. *High speed networks and internets: performance and quality of service*. Pearson education India.
2. Stalling W., *Data and computer communication, 8th edition*
3. Research papers and journals