

1. "Operating Systems - A Concept based Approach", D. M. Dhamdhare, TMH, 3<sup>rd</sup> Ed, 2010.

#### REFERENCE BOOK:

1. **Operating Systems Concepts**, Silberschatz and Galvin, John Wiley India Pvt. Ltd, 5<sup>th</sup> Edition, 2001.
2. **Operating System – Internals and Design Systems**, Willaim Stalling, Pearson Education, 4<sup>th</sup> Ed, 2006.
3. **Design of Operating Systems**, Tennambhaum, TMH, 2001.

#### ADVANCED COMMUNICATION LAB

Subject Code	: 10ECL67	IA Marks	: 25
No. of Practical Hrs/Week:	03	Exam Hours	: 03
Total no. of Practical Hrs.:	42	Exam Marks	: 50

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#### LIST OF EXPERIMENTS USING DESCERTE COMPONENTS and LABVIEW – 2009 can be used for verification and testing.

1. TDM of two band limited signals.
2. ASK and FSK generation and detection
3. PSK generation and detection
4. DPSK generation and detection
5. QPSK generation and detection
6. PCM generation and detection using a CODEC Chip
7. Measurement of losses in a given optical fiber ( propagation loss, bending loss) and numerical aperture
8. Analog and Digital (with TDM) communication link using optical fiber.
9. Measurement of frequency, guide wavelength, power, VSWR and attenuation in a microwave test bench
10. Measurement of directivity and gain of antennas: Standard dipole (or printed dipole), microstrip patch antenna and Yagi antenna (printed).
11. Determination of coupling and isolation characteristics of a stripline (or microstrip) directional coupler
12. (a) Measurement of resonance characteristics of a microstrip ring resonator and determination of dielectric constant of the substrate.



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(b) Measurement of power division and isolation characteristics of a microstrip 3 dB power divider.

### MICROPROCESSOR LAB

Subject Code	: 10ECL68	IA Marks	: 25
No. of Practical Hrs/Week	: 03	Exam Hours	: 03
Total no. of Practical Hrs.:	: 42	Exam Marks	: 50

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#### I) Programs involving

- 1) Data transfer instructions like:
  - i] Byte and word data transfer in different addressing modes.
  - ii] Block move (with and without overlap)
  - iii] Block interchange
  
- 2) Arithmetic & logical operations like:
  - i] Addition and Subtraction of multi precision nos.
  - ii] Multiplication and Division of signed and unsigned Hexadecimal nos.
  - iii] ASCII adjustment instructions
  - iv] Code conversions
  - v] Arithmetic programs to find square cube, LCM, GCD, factorial
  
- 3) Bit manipulation instructions like checking:
  - i] Whether given data is positive or negative
  - ii] Whether given data is odd or even
  - iii] Logical 1's and 0's in a given data
  - iv] 2 out 5 code
  - v] Bit wise and nibble wise palindrome
  
- 4) Branch/Loop instructions like:
  - i] Arrays: addition/subtraction of N nos.  
Finding largest and smallest nos.  
Ascending and descending order
  - ii] Near and Far Conditional and Unconditional jumps,  
Calls and Returns
  
- 5) Programs on String manipulation like string transfer, string reversing, searching for a string, etc.