

## Title of the course: Operating System

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### Assessments:

<b>Mid-term Exam</b>	<b>4 points</b>
<b>Final Exam</b>	<b>12 points</b>
<b>Class Activity</b>	<b>2 points</b>
<b>Attendance</b>	<b>2 points</b>

### Subjects to be discussed:

TOPICS	SESSIONS
<b>INTRODUCTION TO OS MULTI PROGRAMMING TIME SHARING REAL SYSTEM POOLING INTERRUPT</b>	<b>1<sup>st</sup> and 2<sup>nd</sup> sessions</b>
<b>PROCESS MANAGEMENT PROCESS CONTROL BLOCK</b>	<b>3<sup>rd</sup> and 4<sup>th</sup> sessions</b>
<b>FIFO ALGORITHM FIRST COME FIRST SERVE ALGORITHM ROUND ROBIN ALGORITHM</b>	<b>5<sup>th</sup> and 6<sup>th</sup> Sessions</b>

**SHORTEST PROCESS NEXT (SPN) ALGORITHM  
SRT ALGORITHM  
HRRN ALGORITHM  
FEED BACK ALGORITHM**

**7<sup>th</sup> and 8<sup>th</sup>  
session**

**CRITICAL SECTION HANDLING  
DEKKER ALGORITHM  
PETERSON ALGORITHM  
SEMAPHORES  
MONITOR**

**9<sup>th</sup> ,10<sup>th</sup> and 11<sup>th</sup>  
sessions**

**PROCESS SYNCHRONIZATION  
MUTUAL EXCLUSION  
HOLD AND WAIT  
NON PREEMPTION  
CIRCULAR WAITING  
BANKER ALGORITHM**

**10<sup>th</sup> ,11<sup>th</sup> and 12<sup>th</sup>  
sessions**

**MEMORY MANAGEMENT  
FRAGMENTATION  
PAGING  
SEGMENTATION  
PROCESS REPLACING ALGORITHMS**

**13<sup>th</sup> ,14<sup>th</sup> and 15<sup>th</sup>  
sessions**

**TRASHING  
PAGE FAULT  
FIFO ALGORITHM  
LRU ALGORITHM  
LIFO ,SSTF ,SCAN AND CSCAN ALGORITHM**

**16<sup>th</sup> and 17<sup>th</sup>  
sessions**