

## M.Sc. Computer Science First Year 2018-23

### Advanced Networking

<b>Semester- I</b>	<b>Subject Code: MS11802</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>• To understand wireless networks, its types.</li> <li>• To understand the concept of networking model protocols and functionality.</li> <li>• To understand multimedia concept</li> <li>• To Understand importance of network security and cryptography</li> </ul>		

### Advanced Operating System

<b>Semester II</b>	<b>Subject Code: MS21802</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>• To learn Advanced Operating Systems Concepts using Unix/Linux and Windows as representative examples.</li> <li>• Most Units start with the theory and then switches focus on how the concepts are implemented in a C program.</li> <li>• This course describes the programming interface to the Unix/Linux system - the system call interface.</li> <li>• It concludes with an overview of Windows Threads Management, an understanding of the functions of Operating Systems. It also provides provide an insight into functional modules of Operating Systems.</li> <li>• The concepts underlying in the design and implementation of Operating Systems.</li> </ul>		

### Elective : Artificial Intelligence

<b>Semester I</b>	<b>Subject Code: MSE21805</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>• Know various AI search algorithms</li> <li>• knowledge of reasoning in the presence of incomplete and/or uncertain information</li> <li>• Understand different AI applications.</li> </ul>		

## Design and Analysis of Algorithms

<b>Semester I</b>	<b>Subject Code: MS11804</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>➤ Basic Algorithm Analysis techniques and understand the use o asymptotic notation</li> <li>➤ Understand different design strategies</li> <li>➤ Understand the use of data structures in improving algorithm performance</li> <li>➤ Understand classical problem and solutions</li> <li>➤ Learn a variety of useful algorithms</li> <li>➤ Understand classification o problems</li> </ul>		

## Data Mining and Data Warehousing

<b>Semester II</b>	<b>Subject Code: MS21803</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>• To understand principles behind dada analytics.</li> <li>• To explore and adapt data mining techniques.</li> <li>• To provide hands on various analytical tools.</li> </ul>		

## Digital Image Processing

<b>Semester II</b>	<b>Subject Code: MS21801</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>➤ the awareness of Digital Image Processing,</li> <li>➤ hands on processing tool like MATLAB</li> </ul>		

### Distributed Database Concepts

<b>Semester I</b>	<b>Subject Code: MS11803</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>• To understand the principles and foundations of distributed databases.</li> <li>• This course addresses architecture, design issues, integrity, query processing and optimization, transactions, and concurrency control &amp; distributed transaction reliability.</li> </ul>		

### Elective- Programming with DOT NET

<b>Semester II</b>	<b>Subject Code: MSE21805</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>➤ To understand the DOTNET framework, C# language features</li> <li>➤ To learn Web development using ASP.NET</li> </ul>		

### Network Programming

<b>Semester I</b>	<b>Subject Code: MS11805</b>	<b>Lectures: 60</b>
<b>Objectives:</b>		
<p>The syllabus aims in equipping students with,</p> <ul style="list-style-type: none"> <li>➤ Learning practical aspects of computer network programming, with emphasis on the Internet</li> <li>➤ Provide a strong foundation in sending and receiving data between processes in the UNIX and Internet domains</li> <li>➤ Provide an introduction to writing programs using the socket interface.</li> <li>➤ Provide an introduction to the TCP/IP client-server model of interaction, and to writing networking applications using the client/server technology, and an introduction to writing secure software.</li> </ul>		

**Project**

<b>Semester II</b>	<b>Subject Code: MS21804</b>	<b>Lectures: 60</b>
<b>Objectives:</b> The syllabus aims in equipping students with, <ul style="list-style-type: none"><li>➤ To implement the concepts of programming languages.</li><li>➤ To develop a working system which can work on any platform .</li></ul>		