



# KMCT

## ARTS & SCIENCE COLLEGE, KUTTIPPURAM

(Affiliated to the University of Calicut, Approved by Govt. of Kerala and Recognized by UGC under Sec.2(f) of the UGC Act 1956)

<b>DEPARTMENT OF COMPUTER SCIENCE</b>	
<b>PROGRAM : BACHELOR OF COMPUTER SCIENCE (HONS)</b>	
<b>PROGRAM OUTCOMES</b>	<p><b>PO1</b> : Demonstrate a profound understanding of knowledge trends and their impact on the chosen discipline of study.</p> <p><b>PO2</b> : Demonstrate professional skills to navigate diverse career paths with confidence and adaptability.</p> <p><b>PO3</b> : Demonstrate proficiency in varied digital and technological tools to understand and interact with the digital world, thus effectively processing complex information.</p> <p><b>PO4</b> : Emerge as an innovative problem-solver and impactful mediator, applying scientific understanding and critical thinking to address challenges and advance sustainable solutions.</p>
<b>PROGRAM SPECIFIC OUTCOMES</b>	<p><b>PSO1</b> : Understand the theoretical and mathematical foundations of Computer Science.</p> <p><b>PSO2</b> : Understand the concepts of system architecture, hardware, software and network configuration.</p> <p><b>PSO3</b> : Acquire logical thinking and problem-solving skills to find solutions in the software domain.</p> <p><b>PSO4</b> : Adapt to emerging trends and tackle the challenges in the software field.</p> <p><b>PSO5</b> : Design, analyse and develop code-based solutions for the algorithms.</p> <p><b>PSO6</b> : Address the industry demands and assimilate technical, logical and ethical skills needed for the industry.</p>
<b>COURSE OUTCOMES</b>	
<b>Semester I</b>	
CSC1CJ101/ CSC1MN100 - FUNDAMENTALS OF COMPUTERS & COMPUTATIONAL THINKING ( MAJOR)	<p><b>CO1</b> : Develop a foundational knowledge of computing systems, encompassing their historical development, evolutionary milestones, and the notable contributions of key figures in the field.</p> <p><b>CO2</b> : Acquire familiarity with diverse hardware components constituting a computer system.</p> <p><b>CO3</b> : Gain practical expertise by engaging in hands- on activities focused on the installation and configuration of diverse hardware components within a computer system</p>
CSC1MN103 - DATA ANALYSIS USING SPREADSHEET ( MINOR)	<p><b>CO1</b> : Demonstrate the ability to enter data accurately and efficiently into Excel worksheets</p> <p><b>CO2</b> : Use of Excel formulas, including basic arithmetic operations, application of common functions calculations in spread sheets</p> <p><b>CO3</b> : Use Excel for data analysis, including sorting, filtering, and the creation of Tables</p> <p><b>CO4</b> : Demonstrate proficiency in utilizing advanced Excel functions</p> <p><b>CO5</b> : Demonstrate collaboration skills and the ability represent real world data and create report.</p>



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### DEPARTMENT OF MATHEMATICS

### PROGRAM : BSC MATHEMATICS (HONS)

#### PROGRAM OUTCOMES

- PO1** : Demonstrate a profound understanding of knowledge trends and their impact on the chosen discipline of study
- PO2** : Become a team player who drives positive change through effective communication, collaborative acumen, transformative leadership, and a dedication to inclusivity
- PO3** : Demonstrate professional skills to navigate diverse career paths with confidence and adaptability
- PO4** : Demonstrate proficiency in varied digital and technological tools to understand and interact with the digital world, thus effectively processing complex information
- PO5** : Emerge as an innovative problem-solver and impactful mediator, applying scientific understanding and critical thinking to address challenges and advance sustainable solutions

#### PROGRAM SPECIFIC OUTCOMES

- PSO1** : Mathematics Proficiency: Demonstrate a strong understanding of mathematical principles and problem solving
- PSO2** : Interdisciplinary Integration: Integrate Mathematics with relevant disciplines to develop more holistic approaches to solve problems, leading to innovative solutions and advancements in various fields

### COURSE OUTCOMES

#### Semester I

MAT1MN104  
 MATHEMATICAL LOGIC,  
 SET THEORY AND  
 COMBINATORICS (MINOR)

- CO1** : Analyse propositional logic and equivalences
- CO2** : Apply set theory and operations
- CO3** : Implement functions, matrices, and combinatorics



**DEPARTMENT OF STATISTICS**

**PROGRAM : BSC STATISTICS ( HONS )**

**PROGRAM OUTCOMES**

- PO1** : Demonstrate a profound understanding of knowledge trends and their impact on the chosen discipline of study.
- PO2** : Become a team player who drives positive change through effective communication, collaborative acumen, transformative leadership, and a dedication to inclusivity
- PO3** : Demonstrate professional skills to navigate diverse career paths with confidence and adaptability
- PO4** : Demonstrate proficiency in varied digital and technological tools to understand and interact with the digital world, thus effectively processing complex information
- PO5** : Emerge as an innovative problem-solver and impactful mediator, applying scientific understanding and critical thinking to address challenges and advance sustainable solutions

**PROGRAM SPECIFIC OUTCOMES**

- PSO1** : Acquire comprehensive understanding of concepts, principles, and theories of Statistics
- PSO2** : Apply fundamental concepts of descriptive and inferential Statistics- exploratory data analysis
- PSO3** : Master skills in using Statistical Software's to meet the challenges of Employability, Research and Development
- PSO4** : Identify the potential area of applications of Statistical theories
- PSO5** : Construct Statistical models for real world problems and obtain solutions
- PSO6** : Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in Statistical Science

**COURSE OUTCOMES**

**Semester I**

STA1MN103 -  
INTRODUCTORY  
STATISTICS WITH R  
( MINOR )

- CO1** : Identify data types and construct frequency distributions
- CO2** : Create diverse graphical representations effectively and critically evaluate ethical implications of statistical methods aligning with human values
- CO3** : Calculate and apply central tendency measures practically and analyze data to help entrepreneurial decisions using critical thinking skills.
- CO4** : Master R programming basics and descriptive statistics.

STA1MN110 (P) -  
BASIC STATISTICS  
AND DATA  
VISUALIZATION  
( MINOR )

- CO1** : Define and differentiate between primary data and secondary data, and understand the advantages and disadvantages of each type in research and analysis

**CO1** : Classify data into quantitative and qualitative categories and recognize their characteristics and appropriate analysis techniques and analyze data to help entrepreneurial decisions using critical thinking skills

**CO1** : Calculate positional values such as quartiles, deciles, and percentiles, and interpret their significance in understanding the distribution of data

**CO1** : Apply spread sheet functions to calculate measures of central tendency and dispersion.