



GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)  
(Affiliated to Bharathidasan University)  
KUMBAKONAM – 612 001, TAMILNADU



**VALUE ADDED COURSE**  
**DATA ANALYSIS USING SPSS**  
**DEPARTMENT OF MATHEMATICS**

**Course schedule:**

Sl.no	Topic	Theory hours	Practical hours
1.	Introduction	1 hr	-
2.	Data view window , SPSS Syntax	1 hr	2 hr
3.	Data creation , Importing data	2 hr	2 hr
4.	Variable types in SPSS and Defining variables	2 hr	2 hr
5.	Rank Cases , Sorting Data	2 hr	3 hr
6.	Descriptives , Compare Means	2 hr	2 hr
7.	Chi-square Test of Independence	3 hr	2 hr
8.	One Sample t Test	2 hr	2 hr
	Total	15 hrs	15hrs
		30 hrs	

*K. Karthikeyan*  
Course co-ordinator

*S. Rajkumari*  
Head of the Department

**Head, Department of Mathematics**  
Government College for Women (Autonomous)  
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**VALUE ADDED COURSE**  
**CERTIFICATE COURSE ON SCIENTIFIC DOCUMENTATION (LATEX)**  
**DEPARTMENT OF MATHEMATICS**

**Course schedule:**

Sl.no	Topic	Theory hours	Practical hours
1.	Introduction	1 hr	-
2.	Command names and arguments	2 hr	2 hr
3.	Special Characters, Document layout and organization	2 hr	2 hr
4.	Document class, Page style, Parts of the document	2 hr	2 hr
5.	Displayed text: Changing font- Centering and indenting	3hr	2 hr
6.	Mathematical formulas. Main elements of math mode Mathematical symbols, Additional elements.	2 hr	2 hr
7.	Fine-tuning mathematics, Drawing pictures with LATEX. Mathematical functions.	2hr	2 hr
8.	Graphics	2 hr	2 hr
	Total	16 hrs	14 hrs
		30 hrs	

*Aeer Ruyak*  
Course co-ordinator  
*Dr. AICR. RAJAYAL*

*S. Rajkumar*  
Head of the Department  
Head, Department of Mathematics  
Government College for Women (Autonomous)  
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Co-ordinator of the course




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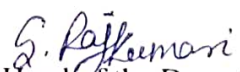


**VALUE ADDED COURSE**  
**C PROGRAMMING LABORATORY COURSE**  
**DEPARTMENT OF MATHEMATICS**

**Course schedule:**

Sl.no	Topic	Theory hours	Practical hours
1.	Introduction	1 hr	-
2.	Write a C program to find roots of a Quadratic equation.	1 hr	2 hr
3.	Write a C program to generate the Fibonacci sequence of first N numbers.	2 hr	2 hr
4.	Write a C program to arrange the elements of an integer array using Bubble Sort algorithm.	2 hr	2 hr
5.	Write a C program to search for an element in an array using Binary Search algorithm and print appropriate message.	2 hr	3 hr
6.	Write a C program to input two matrices and perform matrix multiplication on them.	2 hr	2 hr
7.	Write a C program to count the number of lines, words and characters in a given text.	3 hr	2 hr
8.	Write a C program to find factorial of a given number using recursive function.	2 hr	2 hr
	Total	15 hrs	15hrs
		30 hrs	

  
Course co-ordinator

  
Head of the Department

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**VALUE ADDED COURSE**  
**CERTIFICATE COURSE ON MATLAB**  
**DEPARTMENT OF MATHEMATICS**

**Course schedule:**

Sl.no	Topic	Theory hours	Practical hours
1.	Introduction	1 hr	-
2.	Plotting a function	1 hr	2 hr
3.	Polar plot.	2 hr	2 hr
4.	Matrix Manipulations	2 hr	2 hr
5.	Straight line fit	2 hr	3 hr
6.	Exponential curve fitting	2 hr	2 hr
7.	Solving a first-order linear ODE	2 hr	2 hr
8.	Solving a second-order nonlinear ODE	2 hr	3 hr
	Total	14 hrs	16 hrs
		30 hrs	

  
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**VALUE ADDED COURSE**  
**BASIC TECHNIQUES IN SPREAD SHEET**  
**DEPARTMENT OF MATHEMATICS**

**Course schedule:**

Sl.no	Topic	Theory hours	Practical hours
1.	Introduction	1 hr	-
2.	Templates, Efficiency and Risk	1 hr	2 hr
3.	Tables, Advanced range name	2 hr	2 hr
4.	Index and Match, Offset, Dynamic Charting	2 hr	2 hr
5.	Conditional Formatting, Charts and Inspire	2 hr	3 hr
6.	Slicers, Sparklines, Graphics Tricks	2 hr	2 hr
7.	Working with External Data, Advanced Uses of Pivot Tables	3 hr	2 hr
8.	Trend Analysis optimization, Assignment problem	2 hr	2 hr
	Total	15 hrs	15hrs
		30 hrs	

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