



**M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN**

(Affiliated to Mother Teresa Women's University, Kodaikanal)

Accredited by NAAC with 'A' Grade  
Dindigul - 624 001, Tamil Nadu, India

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**PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE**

**in**

**Association with Spoken Tutorial Project Team**

**IIT Bombay, MHRD, Government of India**

**Organize**

**ONE WEEK SPOKEN-TUTORIAL FACULTY DEVELOPMENT  
PROGRAM (FDP) on "PROGRAMMING IN R"**



**Date: 23.06.2020 - 29.06.2020**

**Timing**

**Morning Session : 10.00 am - 12.00 Noon**

**Afternoon Session : 2.00 pm - 4.00 pm**

**Dr. C. LADHA POORANAM,  
Principal & Patron**

**Dr. S. KRISHNAVENI,  
Head - Convener**

**ORGANIZING SECRETARIES**

**Dr. A . SUBRAMANI & Mrs. J. SUKANYA**

**Assistant professor(s), Department of Computer Science  
M.V.Muthiah Government Arts College for Women**

# Invitation

## M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN



(Affiliated to Mother Teresa Women's University, Kodaikanal)

Accredited by NAAC with 'A' Grade

DINDIGUL - 624 001, Tamil Nadu, India

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Registration Link: <https://forms.gle/LtnXosaJqdnhkvAP7>

Whatsapp Link: <https://chat.whatsapp.com/KLsab4Srcho1muz63zt6t7>

### PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE

In

Association with Spoken Tutorial Project Team  
IIT Bombay MHRD, Government of India

Organize

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## ONE WEEK SPOKEN-TUTORIAL FACULTY DEVELOPMENT PROGRAM (FDP) ON

### “PROGRAMMING IN R”

#### Patron

**Dr. C. LADHA POORANAM**

Principal

M.V. Muthiah Government Arts College for Women  
Dindigul



#### Convener

**Dr. S. KRISHNAVENI**

Head

Department of Computer Science  
M.V. Muthiah Government Arts College for Women



#### Organizing Secretaries

**Dr. A. SUBRAMANI**

Assistant Professor

Department of Computer Science  
M.V. Muthiah Government Arts College for Women



**Mrs. J. SUKANYA**

Assistant Professor

Department of Computer Science  
M.V. Muthiah Government Arts College for Women



- ✓ No Registration Fees
- ✓ E-Certificate Will be provided for successful Completion of the Participants
- ✓ At the end of the day feedback form will be issued and Quiz will be conducted.

#### SCHEDULE

JUNE 23.06.2020 (Tuesday) - 29.06.2020 (Monday)

#### Timing

**Morning Session : 10.00 am - 12.00 Noon**

**Afternoon Session : 2.00 pm - 4.00 pm**

#### TOPIC TO BE COVER

- Day - 1** 23.06.2020
  - Overview of R and RStudio
  - Installing R and RStudio on Linux
  - Installing R and RStudio on Windows
  - Introduction to basics of R
- Day - 2** 24.06.2020
  - Introduction to data frames in R
  - Introduction to RStudio
  - Introduction to R script
  - Working Directories in RStudio
- Day - 3** 25.06.2020
  - Indexing and Slicing Data Frames
  - Creating Matrices using Data Frames
  - Operations on Matrices and Data Frames
  - Merging and Importing Data
- Day - 4** 26.06.2020
  - Data Types and Factors
  - Lists and its Operations
  - Plotting Histograms and Pie Chart
  - Plotting Bar Charts and Scatter Plot
- Day - 5** 27.06.2020
  - Introduction to ggplot2
  - Aesthetic Mapping in ggplot2
  - Data Manipulation using dplyr Package
  - More functions in the dplyr Package
- Day - 6** 29.06.2020
  - Pipe Operator
  - Conditional Statements
  - Functions in R

#### For any Query Email

[drasubramani@mvmwgacdgl.ac.in](mailto:drasubramani@mvmwgacdgl.ac.in)

[jsukanya@mvmwgacdgl.ac.in](mailto:jsukanya@mvmwgacdgl.ac.in)

### **Objectives of the FDP:**

- To acquaint the participants with data analysis techniques.
- To enhance the analytical skills of participants in research.
- To provide a hands-on experience of the models and tools used for conducting research in management of data.
- To help faculty members how to write code , obtain, and execute in research.

**Registration Fee: FREE**

**Target Audience:**

**Faculty Members / Research Scholars / Students.**

**Certification:**

**All participants shall be awarded with certificates of participation after the completion of the program.**

**Registration Link: <https://forms.gle/LtnXosaJqdnhkvAP7>**

## TOPICS TO BE COVERED

<b>COURSE CONTENT</b>	
<b>Day 1 - 23.06.2020</b>	<ul style="list-style-type: none"><li>• Overview of R and RStudio</li><li>• Installing R and RStudio on Linux</li><li>• Installing R and RStudio on Windows</li><li>• Introduction to basics of R</li></ul>
<b>Day 2 -24.06.2020</b>	<ul style="list-style-type: none"><li>• Introduction to data frames in R</li><li>• Introduction to RStudio</li><li>• Introduction to R script</li><li>• Working Directories in RStudio</li></ul>
<b>Day 3 - 25.06.2020</b>	<ul style="list-style-type: none"><li>• Indexing and Slicing Data Frames</li><li>• Creating Matrices using Data Frames</li><li>• Operations on Matrices and Data Frames</li><li>• Merging and Importing Data</li></ul>
<b>Day 4 -26.06.2020</b>	<ul style="list-style-type: none"><li>• Data Types and Factors</li><li>• Lists and its Operations</li><li>• Plotting Histograms and Pie Chart</li><li>• Plotting Bar Charts and Scatter Plot</li></ul>
<b>Day 5 -27.06.2020</b>	<ul style="list-style-type: none"><li>• Introduction to ggplot2</li><li>• Aesthetic Mapping in ggplot2</li><li>• Data Manipulation using dplyr Package</li><li>• More functions in the dplyr Package</li></ul>
<b>Day 6 - 29.06.2020</b>	<ul style="list-style-type: none"><li>• Pipe Operator</li><li>• Conditional Statements</li><li>• Functions in R</li></ul>

## **Spoken Tutorial Video Link**

### **Spoken Tutorial Video Link for Day 1:**

**a) Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1210/Overview-of-R-and-RStudio-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1366/Installing-R-and-RStudio-on-Linux-English.ogv>

**b) Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1367/Installing-R-and-RStudio-on-Windows-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/501/Introduction-to-basics-of-R-English.ogv>

**c) Day - 1: E-Quiz Link: <https://forms.gle/bSHxCRqCvRhmmUWH6>**

### **Spoken Tutorial Video Link for Day 2:**

**a) Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/507/Introduction-to-Data-Frames-in-R-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/506/Introduction-to-RStudio-English.ogv>

**b) Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spokentutorial.org/media/videos/50/1209/Introduction-to-R-script-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1211/Working-directories-in-RStudio-English.ogv>

c) Day - 2: E-Quiz Link: <https://forms.gle/FzBTsMqv4psY6u6u7>

**Spoken Tutorial Video Link for Day 3:**

a) **Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1249/Indexing-and-Slicing-Data-Frames-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1250/Creating-Matrices-using-Data-Frames-English.ogv>

b) **Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1251/Operations-on-Matrices-and-Data-Frames-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1252/Merging-and-Importing-Data-English.ogv>

c) **Day - 3: E-Quiz Link:** <https://forms.gle/1uRW5BfQS1fwhqdDA>

**Spoken Tutorial Video Link for Day 4:**

a) **Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1253/Data-types-and-Factors-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1254/Lists-and-its-Operations-English.ogv>

b) **Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1277/Plotting-Histograms-and-Pie-Chart-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1285/Plotting-Bar-Charts-and-Scatter-Plot-English.ogv>

c) **Day -4: E-Quiz Link:** <https://forms.gle/NhS7p4eRqtcMf1zr9>

## Spoken Tutorial Video Link for Day 5:

a) **Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1286/Introduction-to-ggplot2-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1287/Aesthetic-Mapping-in-ggplot2-English.ogv>

b) **Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1332/Data-Manipulation-using-dplyr-Package-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1333/More-Functions-in-dplyr-Package-English.ogv>

c) **Day -5: E-Quiz Link:** <https://forms.gle/9UE9zU8gv4S3HahM9>

## Spoken Tutorial Video Link for Day 6:

a) **Morning Session: 10.00 am to 12.00 noon**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1334/Pipe-Operator-English.ogv>

**Session-2 Link:**

<https://spoken-tutorial.org/media/videos/50/1335/Conditional-Statements-English.ogv>

b) **Afternoon Session: 2.00 pm to 4.00 pm**

**Session-1 Link:**

<https://spoken-tutorial.org/media/videos/50/1336/Functions-in-R-English.ogv>

c) **Day -6: Organization Certificate Registration Link:**

<https://forms.gle/gGDxtd1vecnYfw9A9>

## Registered Participants

Timestamp	Email Address	Name of the Participant	Designation	Name of the College/Unive Place	Whatspp No.
6-18-2020 12:54:17	sabinasharifmso@gmail.com	M.SABINA BEGUM	GUEST LECTURER	M.V.MUTHIAH GOVT ART DINDIGUL	9962284696
6-18-2020 12:59:52	birundha.rani@gmail.com	BIRUNDHA RANI M	GUEST LECTURER	GOVERNMENT ARTS CO NILAKOTTAI	9578647679
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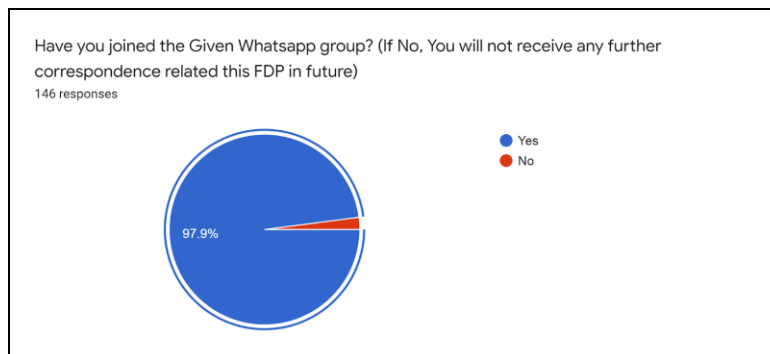


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6-21-2020 19:08:27	ponnkg@gmail.com	Dr.K.K.SAVITHA	Assistant Professor	Bharathiar University PG E Erode	9965260999

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6-21-2020 18:08:10	boomadevi375@gmail.com	Booma Devi.S	Master of Computer A	The Gandhigram Rural Ins Dindigul	9344683463
6-21-2020 18:27:17	Gentlerahu143@gmail.com	RAHUMAN. M	Student	Gandhigram rural universit Dindigul	6382080170
6-21-2020 20:14:53	gayathri.vijayaanand@gmail.com	K. KAYATHRI	Assistant Professor	Agurchand Manmull Jain C Chennai	9710910739

**Total Number of Registered Participants:146**

## Join the MVMCSC-FDP-R Whatsapp group



## Sample Certificates

### 1. Certificate from M.V.Muthiah Government Arts College, Dindigul.

**M. V. MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN**  
(Affiliated to Mother Teresa Women's University, Kodaikanal )  
Reaccredited with 'A' Grade by NAAC  
DINDIGUL - 624 001

**PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE**  
In Association with  
Spoken Tutorial Project Team IIT Bombay MHRD, Government of India

Jointly Organizes  
**ONE WEEK SPOKEN-TUTORIAL FACULTY DEVELOPMENT PROGRAMME (FDP)**

**Certificate of Participation**

This is to Certify that **Dr. A. RAMANI, Assistant Professor of Computer Science** Of **Government Arts College for Women, Nilakkotai** has participated in the Seven days Faculty Development Programme (FDP) on **"Programming in R"** conducted through Spoken-Tutorial, IIT Bombay from **23.06.2020 to 29.06.2020** organized by PG and Research Department of Computer Science, M. V. Muthiah Government Arts College for Women, Dindigul.

*Dr. A. Subramani & Mrs. J. Sukanya*  
Dr. A. SUBRAMANI & Mrs. J. SUKANYA  
Organizing Secretaries

*Dr. S. Krishnaveni*  
Dr. S. KRISHNAVENI  
Convener

*Dr. C. Ladha Pooranam*  
Dr. C. LADHA POORANAM  
Principal & Patron

**Certificate Id: AFQACE- CE000001**

## 2. Certificate from Spoken Tutorial Project Team IIT Bombay, MHRD, Government of India



**Number of Beneficiaries: 104**

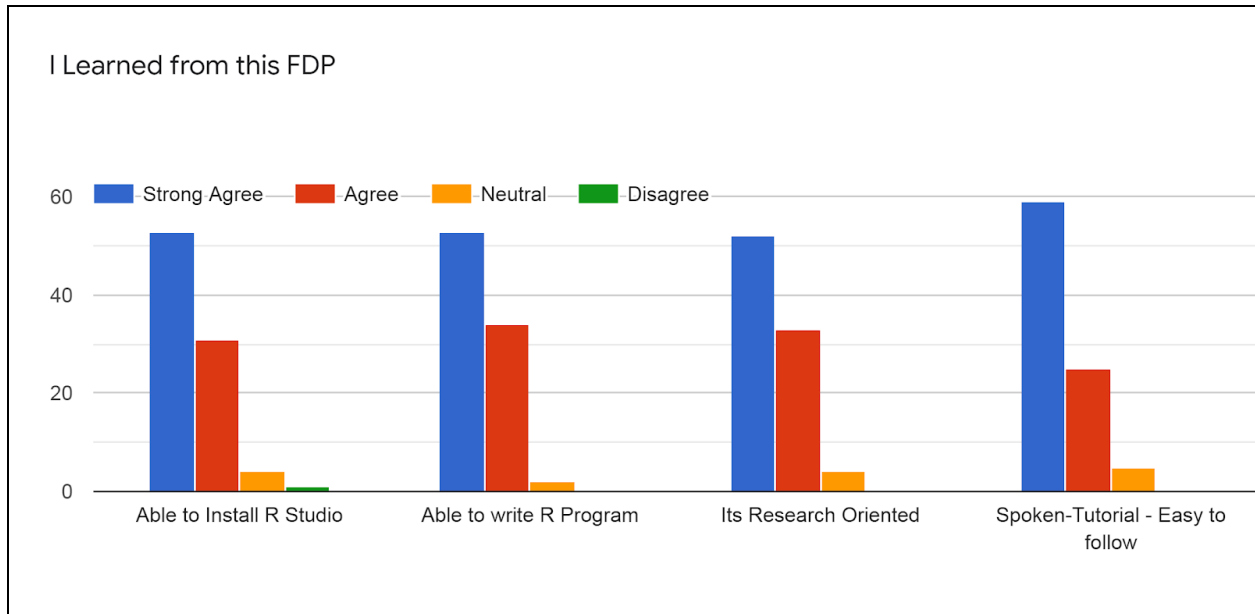
**Outcome of FDP:**

The learning outcomes include the following

- ✓ Installing R and RStudio
- ✓ Data frame and import data
- ✓ Plotting Techniques
- ✓ Data manipulation
- ✓ Visualization of data
- ✓ Easy to use Interface

# Feedback Analysis Report

## I Learned from this FDP



## Administration of the FDP (Communications & Organizing Procedure & Team )

