





Report of the 5 days online Faculty Development Program on

"Basics of R Programming"

Organized by

Department of Computer Science and Engineering, Rajiv Gandhi University

In association with

IIT Bombay-Spoken Tutorial (IITB-ST) (From 29 April 2020 to 03 May 2020)

Report Date: 04/05/2020

Department of Computer Science and Engineering, Rajiv Gandhi University organized a Free certification cum Faculty Development Program on "**Basics of R Programming**" in association with Spoken Tutorial, IIT Bombay for faculty members and research scholars from 29 April 2020 to 03 May 2020. Spoken Tutorial is an initiative of National Mission on Education through ICT, MHRD, Govt.of India ,to promote IT literacy through Open Source Software.

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ACKNOWLEDGEMENT

I have immense pleasure in expressing my heartfelt gratitude to a number of individuals and institutions for their incessant assistance and encouragement during this Faculty Development Program. At the very outset I owe a deep sense of gratitude to Chief Patron of this FDP, Prof. Saket Kushwaha Hon'ble Vice-Chancellor,RGU. I remain indebted to him for the discussions I had with him, his resourceful advice, useful suggestions and unflagging enthusiasm at every turn of this work. I am thankful to Patron of this FDP, Prof. Tomo Riba , Registrar ,RGU giving approval for this FDP. I express my gratitude to the Patron of this FDP, Prof. Amitava Mitra, in completing the procedures with Faculty Development Programme. I am grateful to Prof. Utpal Bhattacharjee, Professor and Secretary of this FDP, Department of Dept. Of Computer Science and Engineering, RGU, for his encouragement and help. Thanks are also due to other members of the teaching faculty, and the members of the staff in the office of the Dept. Of Computer Science and Engineering, RGU.

I would like to place on record my gratitude to Prof. Kannan M Moudgalya, IIT Bombay for sharing his knowledge, expertise and experiences with the participants of the FDP through video tutorials. I acknowledge the services rendered by Partha Goswami , ST IIT Bombay and Akanksha Saini , ST IIT Bombay.

Dr.FIROS A , Convenor of FDP

EXECUTIVE SUMMARY

A **5** days online Faculty Development Program (FDP) on Basics of R Programming was organised at Rajiv Gandhi University, Arunachal Pradesh with an objective to provide the faculty with an understanding of R Programming Language and Statistics. Department of Computer Science and Engineering, Rajiv Gandhi University in association with IIT Bombay-Spoken Tutorial (IITB-ST) organized the FDP from 29 April 2020-03 May 2020. Eminent resource persons from the field of data science and academics handled six technical sessions which were dealt with in the five days of the FDP.

There are many people who contributed a lot for organizing the programme successfully. I express my sincere gratitude to each and every one who made this programme a success. First of all, I would like to thank Hon'ble Vice Chancellor of Rajiv Gandhi University for allowing us to organize this significant programme. I express my heartfelt gratefulness to the IIT Bombay-Spoken Tutorial team for their constant support. I take this privilege to express my cordial appreciation to all the Resource Persons for giving their valuable time and sharing their wisdom through their course material during the FDP. I thank all the participants for actively participating in the programme. Last but not least I express thanks to my colleagues and students for their continuous and positive support. It was a well organized training with a lot of inputs provided and the sessions were very informative. There were many topics covered during the Program and I hope the shared course materials could Spark some Interest and Ignite a Passion to learn more about it. The details of the technical sessions are provided in detail in this report.

Thanking you.

Dr.FIROS A Convenor of FDP, Department of Computer Science and Engineering, Rajiv Gandhi University (A Central University), Rono Hills, Doimukh – 791112 Arunachal Pradesh, India

1. PREFACE

1.1. ABDOUT HOST INSTITUTION

1.1.1. Rajiv Gandhi University

Rajiv Gandhi University (formerly Arunachal University) is the premier institution for higher education in the state of Arunachal Pradesh and has completed twenty five years of its existence. RGU is ranked among top 100 Universities in India (as per NIRF ranking). Late Smt. Indira Gandhi, the then Prime Minister of India, laid the foundation stone of the university on 4th February 1984 at Rono Hills, where the present campus is located. Ever since its inception, the university has been trying to achieve excellence and fulfill the objectives as envisaged in the University Act. The University got academic recognition under section 2(f) from the University Grants Commission on 28th March, 1985 and started functioning from 1st April, 1985. It got financial recognition under section 12-B of the UGC on 25th March, 1994. Since then Rajiv Gandhi University then Arunachal University has carved a niche for itself in the educational scenario of the country following its selection as a University with potential for excellence by a high level expert committee of University Grants Commission from among universities in India. The University was converted into a Central University with effect from 9th April 2007 as per notification of Ministry of Human Resource Development, Government of India.

The Faculty members have been actively engaged in research activities with financial support from UGC and other funding agencies. Since inception, a number of proposals on research projects have been sanctioned by various funding agencies to the University. Departments have organized a number of Seminars, Workshops and Conferences. Many faculty members participated in national and international conferences and seminars held within the country and abroad. Eminent scholars and distinguished personalities have visited the University and delivered lectures on various disciplines.

The academic year 2000-2001 was a year of consolidation for the University. The switch over from annual to semester system took off smoothly and the performance of the students registered a marked improvement. Various syllability designed by Boards of Post-Graduate Studies (BPGS) have been implemented. VSAT facility installed by the ERNET India, New Delhi under UGC-Infonet program, provides internet access.

In spite of infrastructural constraints, the University has been maintaining its academic excellence. The University has strictly adhered to the academic calendar, conducted the examinations and declared the results in time. The students from the University have found placements not only in State and Central Government Services, but also in various institutions, industries and organizations. Many students have come out successful in the National Eligibility Test (NET).Since inception; the University has made significant

progress in teaching, research, innovations in curriculum development and developing infrastructure.

1.1.2. Department of Computer Science & Engineering

The Department of Computer Science was established in 2005, with a diploma course of one-year duration, and a three-year undergraduate course, Bachelor of Computer Applications (BCA). The first and second batch of the BCA programme has completed and the third batch has started from the session 2008-2009, starting from July, 2008. In the year 2006 the Master of Technology in Computer Science and Engineering was started in the department. The department has started the Master of Computer Application course from the session 2013-14.

1.2. ABOUT THE SPONSORING AGENCY

The program is fully funded by IIT Bombay-Spoken Tutorial (IITB-ST) project

1.3. BACKGROUND

Through this industry associated FDP, we tried to build the next generation of technology developers and participants to achieve the practical knowledge from Big data experts. This FPD helped people unfamiliar with data science to put next gear in learning and research.

1.4. SIGNIFICANCE AND OBJECTIVES OF THE FDP

- 1. The objectives are to provide the faculty with an understanding of R Programming Language and Statistics.
- 2. The learning outcomes include being able to identify R is a programming language and environment commonly used in statistical computing, data analytics and scientific research.
- 3. R is one of the most popular languages used by statisticians, data analysts, researchers and marketers to retrieve, clean, analyze, visualize and present data. Due to its expressive syntax and easy-to-use interface, it has grown in popularity in recent years.
- 4. To bring the participants to the level of depth necessary in the subject matter to achieve the stated objectives.
- To encourage participation in the National Agenda of knowledge building through online distance education mode in the lockdown period due to novel corona virus (COVID-19)
- 6. To introduce the participants with the basics of R and increasing their interest in R as programming language and also to provide resources that will support their classroom instruction as well as in their research.

1.5. EXPECTED OUTCOMES

The purpose of this Conference is to enable the participants to apply the skills learned through various video tutorials and presentations of the FDP. Participation in this FDP will enable the participants to learn how to utilize the Data science infrastructure in a better and productive way.

This FDP seeks to bridge the divide between what has traditionally been viewed as the sole objective of Information Technology and what CAN be the triple bottom line for forward-thinking Information Technology: its real application, ease of use, advancements and profit.

1.6. THEMES AND SUB-THEMES

It was a 5 days FDP which aimed at providing valuable information to all the faculty of the Departments. The main motive of this programme was to enhance the best techniques of teaching methods in the present day and to update the knowledge of the faculty within special focus on data science.

1.6.1. SUB-THEMES

The success of this faculty development program is due to the peculiar themes of this program :

- In person. It was increasingly feasible to create and sustain virtual networks using resources such as videoconferencing and web 2.0 communications, which allowed substantial value in bringing people together to be immersed in a common experience. Personal interactions also allow for informal communication outside the defined schedule that can be valuable to the network-building process.
- **Duration**. Experience from 5 years of FDP From 29 April 2020 to 03 May 2020 suggests that 4 to 5 day long FDP would be optimal, given the amount of new material that participants would be expected to absorb and the value of cumulative learning-by-doing.

- Team-based. A key element for ensuring success and enhancing sustainability in this FDP is the participation of teams from institutions, including a range of junior to senior members on each team. The adopted FDP model has shown added success and commitment by participants if their home institute provides at least modest resources to help implement what faculty learn.
- Hands-on. As the design of the planning committee meeting of Dept of CSE,RGU suggested, the FDP built around extensive, direct participation. Participants have the opportunity to be both "students" and "teachers," to practice the methods they are learning, and to develop "teachable tidbits" and other materials (e.g., appropriate assessments) to help them implement their new courses or modules at their home institutions.
- Implementation and Assessment. An important feature of this FDP's hands-on approach is the commitment to assist participants in implementing what they have learned. In addition to implementing new ideas or courses, they acquired experience and resources to plan and carry out effective assessments of whether the learning goals of their new activities are being met.

1.7. BUDGET

The FDP was conducted in the online platform. Rajiv Gandhi University has no financial liability for organizing this FPD. The program is fully funded IIT Bombay-Spoken Tutorial (IITB-ST) project and the expenditure is borne by them.

1.8. MODUS OPERANDI

To encourage participation in the National Agenda of knowledge building through online distance education mode in the lockdown period due to novel corona virus (COVID-19)

2. SESSION WISE DELIBERATIONS

2.1. INAUGURAL SESSION

5 days online Faculty Development Program on

"Basics of R Programming"

Organized by

Department of Computer Science and Engineering, Rajiv Gandhi University

> In association with IIT Bombay-Spoken Tutorial (IITB-ST) (From 29 April 2020 to 03 May 2020)

INAUGURAL SESSION on 29 April 2020 at 10.00 AM

09.20 am - 10:00 am	Participants Join the Meeting
10:00 am - 10:10 am	welcome Address by Dr. Firos A,
	convener
10:10 am - 10:20 am	Introduction of the FDP by Prof. Utpal
	Bhattacharjee, Professor
	, secretary
10:20 am - 10:30 am	Inaugural Address by Chief Patron,
	Prof. Saket Kushwaha, Honorable Vise-
	Chancellor, Rajiv Gandhi university,
	Doimukh, Arunachal Pradesh
10:30 am - 10:40 am	Vote of Thanks by Dr. Firos A,
	convener

2.2. PLENARY SESSIONS

2.3. TECHNICAL SESSIONS

R is a free, useful software package to anybody who wishes to undertake extensive statistical computations (a user community that includes students, researchers and professionals belonging to various disciplines).

The video tutorials of the FDP was made available online for the participants

The participants could access or download the FDP course materials through the following links

- 1. https://spoken-tutorial.org/tutorial-search/?search_foss=R&search_language=English&page=2
- 2. https://drive.google.com/file/d/1kAZyKe254TqSduH1krnomhQlfTPVuufn/view?usp=sha ring

The content of the course is listed below:

1. Installing R and RStudio on Linux

Outline: Install R on Linux Use the command-line interface of R Show the value of exponential function in R Install wget utility Install gdebi utility Install RStudio on Linux

2. Installing R and RStudio on Windows

Outline: Install R on Windows 10 Launch R Use command-line-interface of R Run an exp command in R Install RStudio on Windows Launch RStudio on Windows

3. Introduction to basics of R

Outline: Version of R and RStudio used Operating systems on which these run Quick introduction on to R and RStudio

4. Introduction to Data Frames in R

Outline: Storing captaincy information in vectors Constructing a data frame using vectors Plotting one vector of a data frame vs. another one Adding a vector to a data frame Saving a data.

5. Introduction to RStudio

Outline: Features of RStudio A look at the windows in R Studio interface: Source and Console windows Workspace window Plots and Files window

6. Introduction to R script

Outline: What is an R script Features of an R script How to create and save an R script from the user interface (UI) of RStudio Shortcut keys to create an R script

7. Working directories in RStudio

Outline: What is working directory in R How to know the current working directory How to use getwd function How to set a working directory from the user interface of RStudio

8. Indexing and Slicing Data Frames

Outline: Shortcut key for assignment operator (<-) How to perform numeric indexing How to extract a row or column from a data frame How to retrieve multiple rows from a data frame

9. Creating Matrices using Data Frames

Outline: Data required in a matrix format Convert a data frame into a matrix Create a matrix with known data Add two matrices Subtract two matrices Multiply two matrices element wise

10. Operations on Matrices and Data Frames

Outline: How to find the inverse of a matrix How to calculate the sum of elements in a matrix using for loop How to calculate the sum of elements in a matrix using the sum function.

11. Merging and Importing Data

Outline: Use of built-in functions in R for exploring a data frame Access help in RStudio Advantages of merging data frames Merge two data frames Import data from command line

12. Data types and Factors

Outline: What is an object in R Types of R - objects What is an atomic vector in R Types of atomic vectors How to find types of vectors Factors in R

13. Lists and its Operations

Outline: Lists in R Atomic vectors in R Difference between atomic vectors and lists in R How to create a list How to assign names to the elements of a list Named list in R

14. Plotting Histograms and Pie Chart

Outline: How to find the dimensions of a data frame Define a histogram Plot a histogram in R Add labels to the histogram Add color to the bins of a histogram

15. Plotting Bar Charts and Scatter Plot

Outline: What is a bar chart Draw a bar chart Use the barplot function Add labels to the bar chart Adjust the labels of the bar chart. What is a scatter plot Draw a scatter plot

16. Introduction to ggplot2

Outline: Define visualization About grammar of graphics- ggplot2 Use of the plot function Add labels to a plot Change the color and type of plot Plot two graphs in the same plot

17. Aesthetic Mapping in ggplot2

Outline: Define aesthetic Need for aesthetic in plotting Draw a scatter plot Customize a scatter plot View the structure of an object View the levels of a categorical variable

18. Data Manipulation using dplyr Package

Outline: What is data visualization Need for data manipulation What is dplyr package Functions in dplyr package Install dplyr package Use filter function Use filter function

19. More Functions in dplyr Package

Outline: Functions in the dplyr package Select multiple variables in a data frame Remove variables from a data frame Use of select function Use of starts_with function Change

20. Pipe Operator

Outline: About summarise function in dplyr About group_by function in dplyr Difference between summarise and group_by functions Use summarise and group_by functions together About pipe

21. Conditional Statements

Outline: About conditional statements Syntax of if, else and else if statements Use if, else and else if statements Use if else function Arguments of if else function Add a new column

22. Functions in R

Outline: Define a function about built-in functions and user-defined functions Need for a user-defined function Syntax of a function Parts of a function Create a user-defined function.

NOTE: The participants were free to choose the video tutorials any in any order as per their convenience and learn.

2.4. TARGET GROUP

Research scholars, PG students, faculty members and industry people in national level.

2.5. HOW THE FDP WAS BENEFICIAL FOR THE PARTICIPANTS

The purpose of this Conference was to enable the participants to apply the skills learned through various video tutorials and presentations of the FDP. Participation in this FDP enabled the participants to learn how to utilize the Data science infrastructure in a better and productive way.

This FDP seeks to bridge the divide between what has traditionally been viewed as the sole objective of Information Technology and what CAN be the triple bottom line for forward-thinking Information Technology: its real application, ease of use, advancements and profit.

2.6. MODE OF EVALUATION AND EXAMINATION

The participants were given regular assignments and instructions. On satisfying the course criteria of FDP, 613 participants were awarded with certificate of participation .An online Test on R for the participants was scheduled on 04 MAY 2020(Monday) @ 10.00 AM .The test was for one hour duration. Interested participant attended the online test. A separate certificate was issued from Spoken Tutorial IIT Bombay for the course R Programming for those who score Minimum 40% marks.

The participants received the login credentials for Spoken Tutorials Online Test for R Programming from administrator@spoken-tutorial.org, two days in advance. Participants attended the examination through https://spokentutorial.org/participant/login/ link.

204 participants attended the examination scheduled on 04 May 2020, and 102 have passed the test, which makes the pass percentage of examination as 50% (Master list of Result of examination conducted on 04 MAY 2020 is mentioned in ANNEXURE 4.

2.7. HIGHLIGHTS

- NO REGISTRATION FEE
- CERTIFICATE OF PARTICIPATION AND CERTIFICATION ON 'R'
- LEARN FROM HOME
- FOR FACULTIES/RESEARCHERS
- TUNED TO SUIT THE RESEARCHERS OF ALL DOMAIN

2.8. THE COURSE DETAILS

1. Registration of FDP started Date: 22-4-2020

and Last Date for registration: 28-04-2020

- 2. The FDP Exam date: 29 April 2020-03 May 2020 (5 days)
- 3. The FDP Exam date (Online) : 04 -05-2020 , Duration of exam: 1 hour
- 4. The Total Number of Registrations: 613 (Master Batch of participants is mentioned in ANNEXURE 3)
- 5. The faculty members and research scholars from the following states (20 states) and Union Territory, registered for FDP.
 - i. Andhra Pradesh
 - ii. Arunachal Pradesh
 - iii. Assam
 - iv. Bihar
 - v. Chhattisgarh
 - vi. Gujarat
 - vii. Haryana
 - viii. Himachal Pradesh
 - ix. Jammu and Kashmir
 - x. Karnataka
 - xi. Kerala

- xii. Madhya Pradesh
- xiii. Maharashtra
- xiv. Manipur
- xv. Punjab
- xvi. Rajasthan
- xvii. Tamil Nadu
- xviii. Telagana
- xix. Uttar Pradesh
- xx. West Bengal
- 6. Materials on Basics of R Programming and Instructions about FDP communicated through mails to all registered faculty members.

2.9. PANEL DISCUSSIONS

NA

2.10. VALEDICTORY SESSION

5 days online Faculty Development Program on

"Basics of R Programming"

Organized by

Department of Computer Science and Engineering, Rajiv Gandhi University

> In association with IIT Bombay-Spoken Tutorial (IITB-ST) (From 29 April 2020 to 03 May 2020)

INAUGURAL SESSION on 03 May 2020 at 4.00 PM

03.50 pm - 04:00 pm	Participants Join the Meeting
04:00 pm - 04:10 pm	welcome Address by Dr. Firos A, convener
04:10 pm - 04:20 pm	Outcome of the FDP by Prof. Utpal Bhattacharjee, Professor , secretary
04:20 pm - 04:30 pm	Vote of Thanks by Dr. Firos A, convener

3. MAJOR TAKEAWAYS

3.1. ACADEMIC CONTEXT

It was increasingly feasible to create and sustain virtual networks using resources such as videoconferencing and web 2.0 communications, which allowed substantial value in bringing people together to be immersed in a common experience. Personal interactions also allow for informal communication outside the defined schedule that can be valuable to the network-building process. Experience from 5 years of FDP From 29 April 2020 to 03 May 2020 suggests that 4 to 5 day long FDP would be optimal, given the amount of new material that participants would be expected to absorb and the value of cumulative learning-by-doing.

A key element for ensuring success and enhancing sustainability in this FDP is the participation of teams from institutions, including a range of junior to senior members on each team. The adopted FDP model has shown added success and commitment by participants if their home institute provides at least modest resources to help implement what faculty learns.

3.2. RESEARCH CONTEXT

As the design of the planning committee meeting of Dept of CSE,RGU suggested, the FDP built around extensive, direct participation. Participants have the opportunity to be both "students" and "teachers," to practice the methods they are learning, and to develop "teachable tidbits" and other materials (e.g., appropriate assessments) to help them implement their research or modules at their innovation practices.

An important feature of this FDP's hands-on approach is the commitment to assist participants in implementing what they have learned. In addition to implementing new ideas or courses, they acquired experience and resources to plan and carry out effective assessments of whether the learning goals of their new activities are being met. Through this FDP participant academics from various universities may discussed didactical approach of research in data science and get its benefits for their research.

3.3. POLICY MAKING AND PRACTICE CONTEXT

At this FDP, we will deliberate on some of the critical aspects of modern trends of advanced research tools in higher education. This FDP introduces the data science research product family and provides a high-level overview of the major capabilities. FDP highlights include examples that demonstrate first-person modeling, modeling paradigms, and black box modeling with a special reference to Machine learning and Deep learning.

The resource person through video tutorisls explained how we can use deep learning modules for data exploration to invert the classroom and create a more active learning environment. It is also covered best practices on incorporating technical computing, modeling, and simulation with R in research based academic curricula.

3.4. SUMMARY

The 5 Days Faculty Development Program (ONLINE) on Basics of R Programming organized by Department of CSE, Rajiv Gandhi University in association with Spoken Tutorial, IIT Bombay was concluded today. Total 577 participants from various parts of the country attended the program connecting through online mode from their home.

Prof. Saket Kushwaha, Hon'ble Vice-Chancellor congratulated the participants who completed the program and told that learning is a continuous process that promote teachers' teaching skills, master new knowledge, develop new proficiency, which in turn, help improve students' learning. He expressed that, the outbreak of COVID-19 pandemic in India has caused extreme distress to the society and is a setback to academic activity. In this moment of crisis, RGU has endeavored to leverage digital access for continuation of the academic activities by online mechanisms, he said. He appreciated the Department of CSE for organizing the program in an appropriate time. Prof. A. Mitra, Pro-Vice Chancellor stressed the importance of online platforms for learning during this pandemic. Prof. Tomo Riba, Registrar stressed that RGU always tries to provide the best and innovative learning environment to the participants, this time in an online mode.

All the participants expressed that they had wonderful learning experience during the FDP and conveyed their gratitude to the FDP secretary Prof. Utpal Bhattacherjee and convener Dr. Firos A. They said that these 5 days experience would take them a long way in their academic prospects.

The FDP organized by RGU was meant for faculty and researchers. The FDP is specially designed to meet the modern education requirements of teachers, researchers, and trainers in HRD, training colleges and industrial organizations. The 5 days programme from April 29, 2020 to May 03, 2020 not only covered basic idea about the modern programming language 'R', which can play great role in almost all research areas but also focused on qualitative and quantitative research methods and innovative pedagogical techniques.

A unique component of the FDP was to provide information and guidelines to develop expertise in using R functions and the ways to access packages of R in various research works. The programme incorporated rigorous exercises and live projects. Participants were given the learning resources that will support their classroom instruction as well as in their research in future. The added advantage for this offering was the scope to learn through diversity in the participant's background. They were from different fields of Engineering, Management, Finance, Marketing, HR, etc. and came with a rich array of experience. The participants from all over the country worked together in groups, staying at home and connecting through online platform. Their presentations and reports were of high standards and reflected their learning through diversity and the honed analytical skills of academicians.

4. APPENDIXES & ANNEXURE

ANNEXURE 1: PROGRAM SCHEDULE

DAY 1: 29 April 2020	23. Installing R and RStudio on Linux Outline: Install R on Linux Use the command-line interface of R Show the value of exponential function in R Install wget utility Install gdebi utility Install RStudio on Linux
	24. Installing R and RStudio on Windows Outline: Install R on Windows 10 Launch R Use command-line-interface of R Run an exp command in R Install RStudio on Windows Launch RStudio on Windows
	25. Introduction to basics of R Outline: Version of R and RStudio used Operating systems on which these run Quick introduction on to R and RStudio
	26. Introduction to Data Frames in R Outline: Storing captaincy information in vectors Constructing a data frame using vectors Plotting one vector of a data frame vs. another one Adding a vector to a data frame Saving a data.
	27. Introduction to RStudio Outline: Features of RStudio A look at the windows in R Studio interface: Source and Console windows Workspace window Plots and Files window
DAY 2: 30 April 2020	28. Introduction to R script Outline: What is an R script Features of an R script How to create and save an R script from the user interface (UI) of RStudio Shortcut keys to create an R script
	29. Working directories in RStudio Outline: What is working directory in R How to know the current working directory How to use getwd function How to set a working directory from the user interface of RStudio
	30. Indexing and Slicing Data Frames

	Outline: Shortcut key for assignment operator (<-) How to perform numeric indexing How to extract a row or column from a data frame How to retrieve multiple rows from a data frame
	31. Creating Matrices using Data Frames Outline: Data required in a matrix format Convert a data frame into a matrix Create a matrix with known data Add two matrices Subtract two matrices Multiply two matrices element wise
	32. Operations on Matrices and Data Frames Outline: How to find the inverse of a matrix How to calculate the sum of elements in a matrix using for loop How to calculate the sum of elements in a matrix using the sum function.
DAY 3: 01 May 2020	33. Merging and Importing Data Outline: Use of built-in functions in R for exploring a data frame Access help in RStudio Advantages of merging data frames Merge two data frames Import data from command line
	34. Data types and Factors Outline: What is an object in R Types of R - objects What is an atomic vector in R Types of atomic vectors How to find types of vectors Factors in R
	35. Lists and its Operations Outline: Lists in R Atomic vectors in R Difference between atomic vectors and lists in R How to create a list How to assign names to the elements of a list Named list in R
	36. Plotting Histograms and Pie Chart Outline: How to find the dimensions of a data frame Define a histogram Plot a histogram in R Add labels to the histogram Add color to the bins of a histogram
DAY 4: 01 May 2020	37. Plotting Bar Charts and Scatter Plot Outline: What is a bar chart Draw a bar chart Use the barplot function Add labels to the bar chart Adjust the labels of the bar chart. What is a scatter plot Draw a scatter plot
	38. Introduction to ggplot2 Outline: Define visualization About grammar of graphics- ggplot2 Use of the plot function Add labels to a plot Change the color and type of plot Plot two

	graphs in the same plot
	39. Aesthetic Mapping in ggplot2 Outline: Define aesthetic Need for aesthetic in plotting Draw a scatter plot Customize a scatter plot View the structure of an object View the levels of a categorical variable
	40. Data Manipulation using dplyr Package Outline: What is data visualization Need for data manipulation What is dplyr package Functions in dplyr package Install dplyr package Use filter function Use filter function
	41. More Functions in dplyr Package Outline: Functions in the dplyr package Select multiple variables in a data frame Remove variables from a data frame Use of select function Use of starts_with function Change
DAY 5: 02 May 2020	42. Pipe Operator Outline: About summarise function in dplyr About group_by function in dplyr Difference between summarise and group_by functions Use summarise and group_by functions together About pipe
	43. Conditional Statements Outline: About conditional statements Syntax of if, else and else if statements Use if, else and else if statements Use if else function Arguments of if else function Add a new column
	44. Functions in R Outline: Define a function about built-in functions and user-defined functions Need for a user-defined function Syntax of a function Parts of a function Create a user-defined function.

NOTE:

The FDP Exam date (Online) : 04 -05-2020 , Duration of exam: 1 hour .The participants received the login credentials for Spoken Tutorials Online Test for R Programming from administrator@spoken-tutorial.org, two days in advance. Participants attended the examination through https://spoken-tutorial.org/participant/login/ link.

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В	Male	Deputy Librarian	MLISc, MPhil, PGDLAN
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Male	Teacher	M.sc. Math's
Female	Art & craft teacher	M.A. Psychology, N.T.T.
Female	Teacher PGT	Msc chemistry B.ed
Male	PGT	MA Bed
Female	Pgt hindi	M.A.sanskrit and M.A.
Female	Assistant Professor	PhD
Female	Teacher	MCA
Female	Teacher	B.A.
Male	PGT	MA Bed
Female	PGT	Msc Bed.
Male	Guest Assistant Professo	Master of Visual Arts, I
Male	Teacher	Mped
Male	Teacher	PGT (maths),P.hd
Female	Post Graduate Teacher	Ph. D.
Female	TGT	Post Graduate
Female	PRT	M.sc. B.ed
Male	Guest Assistant Professo	DM.F.A.
Male	Assistant professor	M Tech
Male	Teacher	M.sc.Bed
Female	PGT	Doctorate
Female	P.G.T.	M.A.Hindi & Political se
Female	P.G.T	MA. B.ED
Male	Assistant Professor	PhD
Female	Teacher	MSC (math)bsc compu
Female	Faculty	M Com. B Ed.
Female	TEACHER	Вре
Male	Assistant professor	M.Tech
Female	Pgt	Msc
Male	Assistant Professor	M.Sc. Ph.D. SET
Female	Principal	M.A.Bed
Female	Assistant Professor	PhD
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ANNEXURE 2: PHOTOGRAPHS



ANNEXURE 3: MEDIA COVERAGE

Media coverage about the FDP program is published on 04 MAY 2020 edition of Arunachal Front.

ANNEXURE 4: EXAMINATION AND RESULT

(Result of examination conducted on 04 MAY 2020)

		(nesale of examina		
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142 MD. S. MUJAHEED	KHAN	ersmkhan@gmail.com	25.0 (Fail)
143 DNYANESHWAR	CHAVAN	dnyaneshchavan025@gmail.com	27.5 (Fail)
144 MUKESH	KUMAR	mukeshkr.rs.cse19@itbhu.ac.in	50.0% - Certificate
145 JAYSHREE	JADHAV	jdjatal@gmail.com	
146 LAKSHMI NARAYANA	JAMMULA	lakshmi1516@gmail.com	15.0 (Fail)
147 DHARMENDRA	KUMAR	dharmendrakumar.rs.ece19@itbhu.ac.in	30.0 (Fail)
148 RAHUL	SHAH	rahul.shah@iusikkim.edu.in	32.5 (Fail)
149 BHIMRAJ	BASUMATARY	brbasumatary14@gmail.com	35.0 (Fail)
150 DR KARANAM	RAMESH RAO	ramskaranamphd@gmail.com	20.0 (Fail)
151 DR. RITIKA	MEHRA	hod.mca@dituniversity.edu.in	67.5% - Certificate
152 B USHA	PRIYA	ushapriya512@gmail.com	32.5 (Fail)
153 VINOD	GOUR	vinodsingh2010@gmail.com	47.5% - Certificate
154 VISHAL	BHARTI	vishal.bharti@dituniversity.edu.in	27.5 (Fail)
155 GOLLA BALA	RENUKA	renukagollabala@gmail.com	15.0 (Fail)
156 NALAM SOWJANYA	KUMARI	sowjanyanalam5@gmail.com	50.0% - Certificate
157 YUGANDHAR	MANCHALA	yugandhar1230@gmail.com	62.5% - Certificate
158 SAIFUR	RAHMAN	saifur.ms@gmail.com	47.5% - Certificate
159 SINDHANAISELVAN	К	sindhanaiselvan@mvjce.edu.in	15.0 (Fail)
160 ANKOSH	RAMTEKE	ankosh12891@gmail.com	55.0% - Certificate
161 PARTHA PROTIM	SAIKIA	pprotim70@gmail.com	57.5% - Certificate
162 ANUSHRI	KINI	anushri.kini@vivacollege.org	45.0% - Certificate
163 VAIBHAV	SATVI	vaibhavsatvi@vivacollege.org	42.5% - Certificate
164 DR.G. STEPHEN	STEPHEN	sterose_lion@yahoo.co.in	57.5% - Certificate
165 REVATHI	S	jayanthan.n1@gmail.com	45.0% - Certificate
166 NAGARAJU	REGONDA	nagarajuit@smec.ac.in	32.5 (Fail)
167 DR.RATUL	DEKA	ratuldeka760@gmail.com	45.0% - Certificate

168 RANI	SONAWANE	maths.dept.parner@gmail.com	42.5% - Certificate
169 SAMIR	BHARGAVA	samirbhargava@outlook.com	47.5% - Certificate
170 ATUL	AKOTKAR	akotkar.priya@gmail.com	32.5 (Fail)
171 ASLAM	SURIYA	aslamsuriya.phd@gmail.com	42.5% - Certificate
172 N NARENDRA	REDDY	narendra.reddy.529@gmail.com	45.0% - Certificate
173 NAVEEN	KARAMALA	naveenpavani634@gmail.com	50.0% - Certificate
174 SANTHI	KURAGANTI	mk.help2010@gmail.com	50.0% - Certificate
175 VENU GOPAL	GADDAM	gvenugopal@pvpsiddhartha.ac.in	67.5% - Certificate
176 MINTU	DAS	12mintudas@gmail.com	35.0 (Fail)
177 PRADOSH CHANDRA	PATNAIK	pradoshpatnaik1974@gmail.com	42.5% - Certificate
178 Dr DILEEP KUMAR REDDY	Р	dileepreddy503@gmail.com	15.0 (Fail)
179 KANAK	MODI	mangalkanak@gmail.com	62.5% - Certificate
180 ASHIM KUMAR	PAUL	librarian.skc@gmail.com	42.5% - Certificate
181 MOHEMMED	YOUSUF R	yousufmohemmed90@gmail.com	22.5 (Fail)
182 SHANKAR	R	shankar098@gmail.com	37.5 (Fail)
183 DEEPIKA	YADAV	deepikayadav603@gmail.com	30.0 (Fail)
184 PARTHA PROTIM	SAIKIA	pprotim279@gmail.com	Never submitted
185 SIMANTA	SAIKIA	simantasaikia47022@gmail.com	37.5 (Fail)
186 SREELAHARI	VALLAMSETLA	vallamsetla.sree@gmail.com	55.0% - Certificate
187 DR. PANKAJ	KUMAR	pankaj.kumar@dituniversity.edu.in	17.5 (Fail)
188 PRASENJIT	PAUL	paulprasenjit1988@gmail.com	32.5 (Fail)
189 RINKU	BASUMATARY	rinkubasumatary@gmail.com	52.5% - Certificate
190 IHSANA	SHERIN	ihsanasherin@gmail.com	35.0 (Fail)
191 CHANDRAPRABHA	KULKARNI	cvkulkarnijape26@gmail.com	32.5 (Fail)
192 DIPANKA	BORAH	dipankaborah@gmail.com	55.0% - Certificate
193 MUKESH	KUMAR	mukeshkr.rs.cse19@itbhu.ac.in	50.0% - Certificate
194 DHARMENDRA	KUMAR	dharmendrakumar.rs.ece19@itbhu.ac.in	30.0 (Fail)
195 RAHUL	SHAH	rahul.shah@iusikkim.edu.in	32.5 (Fail)
196 ARVIND KUMAR	MAURYA	arvindmaurya315@gmail.com	52.5% - Certificate
197 chokkakula	devi	chokkakula.devi@gmail.com	42.5% - Certificate
198 CHANDANA	SWATHI	swati.chandana@gmail.com	70.0% - Certificate
199 DR. DHEERAJ	KUMAR JOSHI	dheeraj.joshi@dituniversity.edu.in	47.5% - Certificate
200 NALAM SOWJANYA	KUMARI	sowjanyanalam5@gmail.com	50.0% - Certificate
201 YUGANDHAR	MANCHALA	yugandhar1230@gmail.com	62.5% - Certificate

202 PARTHA PROTIM	SAIKIA	pprotim70@gmail.com	57.5% - Certificate
203 Dr DILEEP KUMAR REDDY	Р	dileepreddy503@gmail.com	15.0 (Fail)
204 MOHEMMED	YOUSUF R	yousufmohemmed90@gmail.com	22.5 (Fail)