

**SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY,
MANAGEMENT & GRAMOTHAN, JAIPUR**



**Department of Computer Science & Engineering and Department
Information Technology**

REPORT

One Week FDP (Online)

On

Introduction to R

21st - 25th August, 2023

Jointly Organized By:

Spoken Tutorial, IIT Bombay



Spoken Tutorials



&

Department of Computer science & Engineering (NBA Accredited) &

Department of Information Technology (NBA Accredited)

Swami Keshvanand Institute of Technology, Management & Gramothan,
Jaipur-302017

Submitted By:

Dr. Sunita Gupta (IT)

Ms. Nidhi Srivastav (CSE)



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About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last three years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, state of the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.

Institute would pursue quality in

- All its Endeavour's like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.

Department of Computer Science & Engineering and Department of Information Technology

The Department is dedicated towards providing its students with a motivating environment and facilitating their academic requirements with committed and expert supervision of faculty and experts from various fields from time to time. The department offers B.Tech (CS) & B.Tech (IT), M.Tech. (CS) and PhD. (CS). The B.Tech degree programme has been accredited by NBA in both CSE and IT. The department Computer Science & Engineering is a recognized Research Centre of Rajasthan Technical University. Organises Spoken Tutorial and NPTEL Certification by IIT Bombay and has Virtual Lab setup by IIT Madras.



Organizing Committee of FDP

FDP is organized by Department of Computer Science & Engineering and Department of Information Technology, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Under the guidance of Dr. Prof. Mukesh Gupta, HOD (CSE) SKIT and Dr. Prof. Anil Chaudhary, HOD (IT).

Coordinators of the FDP are:

1. Dr. Sunita Gupta, Associate Professor (IT), SKIT
2. Ms. Nidhi Srivastav, Associate Professor (CSE), SKIT

Objectives of the FDP

- Participant can build awesome projects by using R.
- R is dynamically used in wide variety of application domains.
- Participants can explore the opportunities and challenges in the use of R.
- To provide an opportunity for the participants to learn from expert in Specialized areas

Contents of the FDP

- Introduction to basics of R
- Introduction to data frames in R
- Introduction to RStudio
- Introduction to R script
- Working Directories in RStudio
- Indexing and Slicing Data Frames
- Creating Matrices using Data Frames
- Operations on Matrices and Data Frames
- Merging and Importing Data
- Data Types and Factors
- Lists and its Operations

Outcomes of the FDP

By the end of the program, the participants should:

- Understand the concepts of R and its applications.
- Explore the research opportunities and challenges of using R.
- Understand the current state of research and practice using R.
- Get acquainted with wide variety of application domains in R.

FDP Brochure

PATRON

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Shri Surja Ram Meel, Chairman, SKIT

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Ms. Nidhi Srivastav, Spoken Tutorial Coordinator (CSE)

ORGANIZING COMMITTEE

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India-302017

REGISTRATION FORM

To join this FDP, you are requested to register your name by clicking the following registration link:
For SKIT Faculties:

<https://forms.gle/CmA8UQvi3pebQk2A>

Note:

- ✓ FDP will be conducted online through Spoken Tutorial portal.
- ✓ The registration for the FDP is on first come first serve basis.
- ✓ Participation Certificate will be provided by the Spoken Tutorial after completion of FDP. Course Completion Certificate will also be provided to the faculties who will score more than 40% in certification exam.
- ✓ For any queries regarding FDP, please contact: spoken_csit@skit.ac.in

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&

Department of CSE & IT



**Swami Keshvanand Institute of Technology,
Management & Gramothan, Ramnagar,
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Website: www.skit.ac.in

ABOUT PROGRAM

Program is intended to introduce with basics of R with its applications. R is an integrated suite of software facilities for data manipulation, calculation and graphical display. It is Widely used in Educational Institutions like universities, colleges and schools, data Science and Market Analysis. Statisticians and data miners use it for developing statistical software and data analysis, polls, data mining surveys etc. So this course will help learners in getting practical exposure in R.

OBJECTIVES OF THE FDP

- Participant can build awesome projects by using R.
- R is dynamically used in wide variety of application domains.
- Participants can explore the opportunities and challenges in the use of R.
- To provide an opportunity for the participants to learn from expert in Specialized areas

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- Data Types and Factors
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ABOUT SPOKEN TUTORIAL, IIT BOMBAY

A project of the National Mission on Education through ICT funded by the Ministry of Education (MHRD),

Govt. of India. Spoken Tutorial is a multi-award-winning educational content portal. Here one can learn various Free and Open-Source Software all by oneself. It has self-paced, multi-lingual courses that anybody with a computer and a desire for learning, can learn from any place, at any time and in a language of their choice. All the content published on their website are shared under the CC BY SA license.

ABOUT SKIT JAIPUR

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No. 1 Engineering Institute in Rajasthan by RTU, Kota consecutively for the last five years. SKIT is the only affiliated technical institute in Rajasthan to have earned an A++ grade by NAAC. SKIT is a selective comprehensive institution offering Undergraduate, Postgraduate & Doctorate Programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed Professionals and Academicians. During all the past years SKIT has emerged as a Premier Center of Technical Education not only in Rajasthan but also in Northern India which has been realized through efficient and dedicated Faculty Members, Innovative Teaching Learning Methods, State of the art infrastructures and Core Value of Discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA). Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry – Institute Interface. Apart from University curriculum SKIT also pursues activities for Research and Development in various fields.

DEPARTMENT OF CSE & IT

The departments are NBA accredited and offers undergraduate programs in CSE & IT, postgraduate

program in CSE and Ph.D. in CSE. The major areas of research are Big Data Analytics, Cloud Computing & Virtualization, Artificial Intelligence, Security, Compilers & Programming Languages, Computer Architecture, Bioinformatics and Theoretical Computer Science. Both departments have various research laboratories with the state-of-the-art computing facilities. The department is also recognized as a “Center of Excellence in IoT” by Rajasthan Technical University, Kota

TARGETED AUDIENCE

This FDP will be very helpful for faculties as it gives knowledge about R that is base of recent trends and technology. The targeted audiences are faculty members.

REGISTRATION FEE

Faculties of SKIT- No Registration fee.

IMPORTANT DATES

Last Date for Online Registration: 14.8.2023

FDP Dates: 21.8.2023-25.08.2023





Sample Feedback

30/10/2023, 12:23

One Week FDP (Online) on " " Introduction to R " from 21-25 August 2023 - Feedback

One Week FDP (Online) on " " Introduction to R " from 21-25 August 2023 - Feedback

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Full Name of the Participant *

SUMIT KUMAR

Designation *

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Organization *

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920

https://docs.google.com/forms/d/18BiVpqxjgShK-D3LQOCiCTvG9dhUHQglP5KXd6VLkM/edit#response=ACYDBNioF1ret_a7L8o1BJNYACynTfusXL... 1/3



30/10/2023, 12:23

One Week FDP (Online) on " " Introduction to R " from 21-25 August 2023 - Feedback

Contact Number *

9772110536

Quality of the e-content available on Spoken Tutorial, IIT Bombay *

1 2 3
FAIR EXCELLENT

How helpful was the content? *

1 2 3
Slightly Helpful Extremely Helpful

Relevance of the content *

1 2 3
FAIR EXCELLENT

Knowledge gained by the FDP *

About Basic of R

https://docs.google.com/forms/d/18BIVpqxjgShK-D3LQQCICTvG9dhUHQgIP5KXd6VLkM/edit#response=ACYDBNioFret_a7L8o1BJNYACynTfusXL... 2/3



30/10/2023, 12:23

One Week FDP (Online) on " " Introduction to R " from 21-25 August 2023 - Feedback

Your overall experience *

	1	2	3	
FAIR	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	EXCELLENT

Any additional comments or suggestions?

This form was created inside of Swami Keshvanand Institute of Technology.

Google Forms

https://docs.google.com/forms/d/18BiVpqxjgShK-D3LOQCICTvG9dhUHQglP5KXd6VLkM/edit#response=ACYDBNioFire_a7L8o1BJNYACynTfusXL... 3/3

Sample Copy of Participant's Certificate



Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation



ADAN
OHAN
ALAWIYA
NATIONAL MISSION ON
TEACHERS AND TEACHING

This is to certify that **RAJNI IDIWAL** has participated in **Faculty Development Programme** from **2023-08-21** to **2023-08-25** on **R** organized by **SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN** with course material provided by Spoken Tutorial Project, IIT Bombay.



Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India



Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation



ADAN
OHAN
ALAWIYA
NATIONAL MISSION ON
TEACHERS AND TEACHING

This is to certify that **ACHIN SRIVASTAV** has participated in **Faculty Development Programme** from **2023-08-21** to **2023-08-25** on **R** organized by **SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN** with course material provided by Spoken Tutorial Project, IIT Bombay.



Prof. Kannan M Moudgalya
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Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

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