

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING

(Approved by AICTE)

Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut -250 005
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108
E-mail: principal.site@gmail.com, principal.engg@gmail.com, Website: www.subharti.org



RHO: SITE | CSE / VA / 2018 / 1(C)

Department of Computer Science Engineering

NOTICE

The department is organizing a Value Added Course on 'R Programming' from 30th September '18 to 9th December'18. The students of V semester can join the course by filling the registration form and submitting it before 20th September'18.

Coordinators are Er. Garima Jain & Er. Diksha Maurya

CC: The Principal, SITE (for information)



Subharti Institute of Technology and Engineering Swami Vivekanand Subharti University, Meerut (Approved by AICTE)

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2. REGISTRATION FORM:

GISTRATION ELIGIBILITY

For all students of CSE, no registration

HOW TO REGISTER

interested participants should send their duly interested participants should send their duly impleted registration form through their respective. Head of the Department to 3r. Uddi Shankar "HoD,CSE for registering heir names as a participant in the "VALUE ADDED COURSE ON R" or g an i zed by Department Of CSE, SITE, SVSU, Meerut.

IMPORTANT DATES

Last date for receipt of application: 20th September 2018

Last date for acceptance notification: 25th September 2018 Last date for receipt of confirmation from the applicants 27th September 2018, before 4 pm

VENUE

Subharti Institue of Technology and Engineering, SVSU, Meerut

PATRONS

Dr. Bikas Prasad, Principal, SITE Dr. Udai Shnakar, HoD, CSE

CONVENER

Er. Amit Kishor, CSE

COORDINATOR (5)

Er.Garima Jain, Mab:+919971164620 Asst Prof(CSE), SITE

Er. Diksha Maurya, Mabi+917454876688

ORGANIZING COMMITTEE

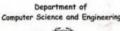
Er. Amit Kishor, Asst Prof(CSE), SITE

Er. Archita Bhatnagar, AsstProf(CSE), SITE

Er. Surabhi Agarwal, Asst Prof(CSE), SITE

Er. Ashutosh Shukla, Asst Prof(CSE), SITE

SUBHARTI INSTITUTE OF TECHNOLOGY AND ENGINEERING, SWAMI VIVEKANAND SUBHARTI UNIVERSITY VALUE ADDED COURSE ON R LANGUAGE 9" December 2018





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Department of Computer Science & Engineering/Information Technology

Value Added Course on

Program Code

"R Language-2018"

Course objective:-

- To aware and spread the knowledge about the Data Science and leverage the power of R.
- To provide hand-on experience of various statistical analysis, graphics representation, Data manipulation and reporting.

S.NO	Syllabus	Duration (hours)	L	Т	P
1	R basics: Math, Variables, and Strings-Vectors and Factors-Vector operations	3	3	0	0
2	Data structures in R: Arrays & Matrices-Lists-Dataframes	3	3	0	0
3	R programming fundamentals: Conditions and loops- Functions in R-Objects and Classes-Debugging	4	2	0	2
4	Working with data in R: Reading CSV and Excel Files- Reading text files-Writing and saving data objects to file in R,Data Visualization (ggplot2 package), Data manipulation (dplyr, reshape2 packages)	6	2	0	4
5	Strings and Dates in R: String operations in R-Regular Expressions-Dates in R	3	1	0	2

Course outcome:-

- Installation R Studio and its packages
- Explore and understand how to use the R documentation
- Read Structured Data and data typesinto R from various sources
- Import the data sets online and offline both.
- · Exploring the various packages of R
- Use of various functions across data
- Reshape data to support different analyses
- · Dealing with missing data
- Manipulate strings in R
- Understand how to link data, statistical methods, and actionable questions
- Graphical representation for the results

VALUE ADDED COURSE- "R Language"

Course Motivation:

R is a programming language and free software environment for statistical computing and graphics supported by the R Foundation for Statistical Computing. The R language is widely used among statisticians and data miners for developing statistical software and data analysis. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS

It includes machine learning algorithm, linear regression, time series, statistical inference to name a few. Most of the R libraries are written in R, but for heavy computational task, C, C++ and Fortran codes are preferred.

Prerequisites: It is a basic understanding of Computer Programming terminologies

R is not only entrusted by academic, but many large companies also use R programming language, including Uber, Google, Airbnb, Facebook and so on.

Data analysis with R is done in a series of steps; programming, transforming, discovering, modeling and communicate the results

In a nutshell, R is a great tool to explore and examine the data. Elaborate analysis like clustering, correlation, and data reduction are done with R. This is the most crucial part, without a good feature engineering and model, the deployment of the machine learning will not give meaningful results.



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VALUE ADDED COURSES

SESSION: 2018-19

COURSE NAME: R LANGUAGE COURSE CODE: ET-VA-16

LIST OF STUDENTS

S.NO	ENROLMENT NO.	NAME	
1	1601010000193	ABHISHEK SHRIVASTVA	
2	1601010000212	ANSHIKA GUPTA	
3	1601010000216	ARCHIT GUPTA	
4	1601010000240	HARSHIT RAI	
5	1601010000248	KM OMAL	
6	1601010000258	LUCKY BHAN SINGH	
7	1601010000288	MOHIT KUMAR	
8	1601010000295	NAVEEN JUGRAN	
9	1601010000321	RAHUL KUMAR	
10	1601010000356	SHAGUN TYAGI	
11	1601010002454	SHIFA NAAZ	
12	1601010000365	SHIVANI SAINI	
13	1601010000373	SIDRA BATOOL	
14	1601010000374	SUAIB ALI	
15	1601010000384	TANYA RAJPUT	

