

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,
Accredited by NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

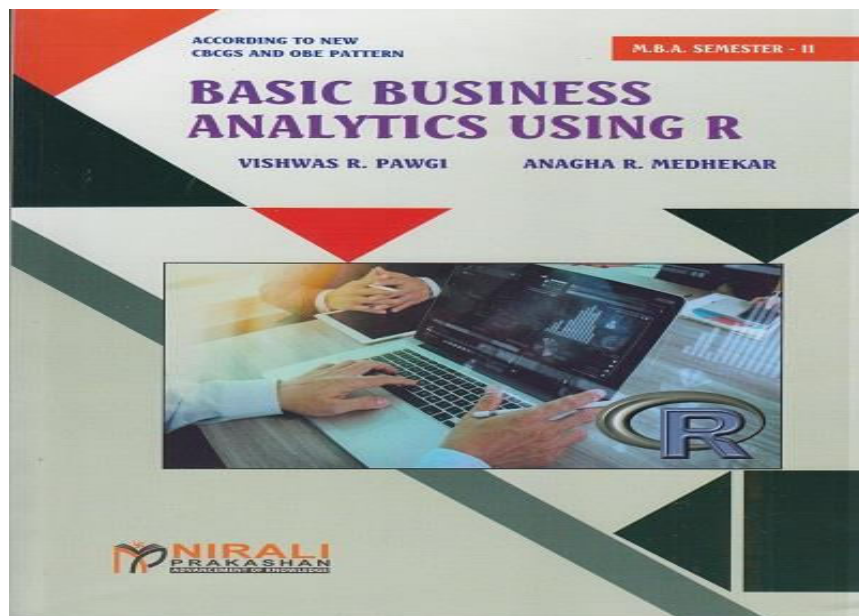


Certificate Course

on

BUSINESS ANALYTICS-INTRODUCTORY COURSES USING PROGRAMMING - R

From 14th December 2020 to 19th December 2020

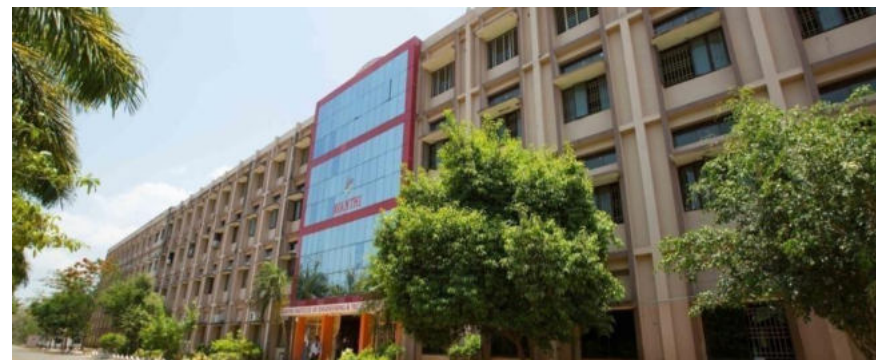


ORGANIZED BY

DEPARTMENT OF MANAGEMENT STUDIES

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,
MAKAVARAPALEM (V), VISAKHAPATNAM-531113**

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY



AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.

It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF MANAGEMENT STUDIES

The MBA Department was established in the year 2004 with an intake of 60 students and this was increased to 120 students in the 2012. The department has an eminent faculty and well supported infrastructure and laboratories. The faculty keeps abreast with the latest advances in technology and ensures that hardware equipment and related software are upgraded to ensure its students are able to keep pace with current trends in technology and the industry. The department also offers a Post – Graduate courses. The students are encouraged to participate in workshops, industrial internship, industrial visits and seminars; along with the projects assigned during the course, these activities enable them to broaden their outlook and build in professionalism that makes their transition from college to industry smoother after graduation. Recent advances of sensor technologies have been powered by high-speed and

low-cost electronic circuits, novel signal processing methods, and advanced manufacturing technologies. The synergetic interaction of new developments in these fields provides promising technical solutions increasing the quality, reliability, and economic efficiency of technical products

ABOUT THE COURSE

Nearly every aspect of business is affected by data analytics. For businesses to capitalize on data analytics, they need leaders who understand the business analytic workflow. This course addresses the human skills gap by providing. A data structure is a particular way of organizing data in a computer so that it can be used effectively. The idea is to reduce the space and time complexities of different tasks. Data structures in R programming are tools for holding multiple values. When undertaking any statistical analysis, the type of statistics calculated or statistical test undertaken depends to a large extent on the type of variable being analysed. In this section you will learn about continuous, categorical and nominal variables. How can a text corpus stored in a customer relationship management (CRM) database be used for data mining and segmentation? In order to answer this question we inherited the state of the art methods commonly used in natural language processing (NLP) literature, such as word embeddings, and deep learning literature, such as recurrent neural networks (RNN)

TOPICS TO BE COVERED

- Day-1:** Introduction – installation and setting up Programming R
- Day-2:** Datatypes and data structures in Programming R, control structures
- Day-3:** Data economics- cross section, time series, panel data and big data
- Day-4:** Exploratory analysis with base graphics tools in Programming R
- Day-5:** Descriptive statistics, analysis of variance and correlation
- Day-6:** Natural language processing, clustering, case study

For Registration please contact Mr.P.Ganesh, Assistant Professor,

MBA

CHIEF PATRON

Smt.M.Gnaneswari
President
Avanthi Institute Of Engineering And Technology

PATRON

Dr. C P V N J Mohan Rao
Principal,
Avanthi Institute Of Engineering And
Technology

CHAIRMAN

Dr.B.Lova
Head of The Department
Management Studies



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DEPARTMENT OF MANAGEMENT STUDIES

CIRCULAR

Date: 11/12/2020

We are happy to inform you that, Department of Management Studies, AIET is organizing six-day certificate course on "Business Analytics-Introductory Course on "Programming-R" during 14th December, 2020 to 19th December, 2020 in virtual mode for all MBA III Semester students. Interested candidates are directed to enrol above course on or before 10/07/2020. For further details contact Course Coordinator Mr. P. Ganesh, Assistant Professor, Department of Management studies.

Resource Person Details:

1. Prof. P. Venkateswarlu
Department of Commerce & Management Studies
Andhra University
Visakhapatnam.
2. Prof. U. V. Adinarayana Rao
Department of Management Studies
GITAM Deemed to be University
Visakhapatnam.

Dr. Lovi Baliji

Head of the Department

Copy to: Principal AIET

Avanathi Institute of Engg & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113



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DEPARTMENT OF MANAGEMENT STUDIES

BUSINESS ANALYTICS- INTRODUCTORY COURSE USING PROGRAMMING - R

Duration: 14-12-2020 to 19-12-2020

SYLLABUS

Day-1: INTRODUCTION-INSTALLATION AND SETTING UP PROGRAMMING-R

Day-2: BASICS OF R - DATA TYPES AND DATA STRUCTURES IN PROGRAMMING- R

-CONTROL STRUCTURES IN PROGRAMMING- R

**Day-3 : DATA IN ECONOMICS-CROSS SECTION, TIME SERIES, PANEL DATA AND BIG
DATA**

**Day-4: DATA VISUALISATION-EXPLORATORY ANALYSIS WITH BASE GRAPHICS
TOOLS IN R**

**Day-5: DATA ANALYSIS-DESCRIPTIVE STATISTICS, ANALYSIS OF VARIANCE AND
CORRELATION**

Day-6: NATURAL LANGUAGE PROCESSING

1. BASICS

2. CLUSTERING

3. TEXT CLASSIFICATION

4. STATEMENT ANALYSIS

-CASE STUDY

-READING


COORDINATOR


HOD

**Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113**



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DEPARTMENT OF MANAGEMENT STUDIES

BUSINESS ANALYTICS-INTRODUCTORY COURSES USING PROGRAMMING R

Duration: 14-12-2020 to 19-12-2020

Schedule

Day-1 (14/12/2020)

09:00 to 10:00	INTRODUCTION TO PROGRAMMING- R
10:00 to 12:00	INSTALLATION OF PROGRAMMING- R
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	SETTING UP PROGRAMMING-R

Day-2 (15/12/2020)

09:00 to 12:00	DATA TYPES AND DATA STRUCTURES
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	CONTROL STRUCTURES IN PROGRAMMING-R

Day-3(16/12/2020)

09:00 to 12:00	CROSS SECTION, TIME SERIES
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	PANEL DATA, BIG DATA

Day-4(17/12/2020)

09:00 to 12:00	EXPLORATORY ANALYSIS WITH GRAPHICS TOOLS IN PROGRAMMING- R
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	EXPLORATORY ANALYSIS WITH BASE GRAPHICS TOOLS IN PROGRAMMING- R

Day-5(18/12/2020)

09:00 to 12:00	DESCRIPTIVE STATISTICS
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	ANALYSIS OF VARIANCE AND CORRELATION

Day-6(19/12/2020)

09:00 to 12:00	CLUSTERING, TEXT CLASSIFICATION
12:00 to 01:00	LUNCH BREAK
01:00 to 04:00	SENTIMENT ANALYSIS, CASE STUDY, READING


COORDINATOR


HOD

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 Visakhapatnam-531113

BUSINESS ANALYTICS-INTRODUCTORY COURSES USING R
From 14th December 2020 to 19th December 2020

Students Attendance

S.NO	Regd No	Name of the Student	14/12	15/12	16/12	17/12	18/12	19/12
1	19811E0001	ADIGARLA UDAY	✓	✓	✓	✓	✓	✓
2	19811E0002	ADLABOYINA RAMU	✓	✓	✓	✓	✓	✗
3	19811E0003	ARAVELLI CHARAN KUMAR	✓	✓	✓	✓	✓	✓
4	19811E0004	AVURUGOTTU TATAJI	✓	✓	✓	✓	✓	✓
5	19811E0005	BANDARU KRATHIK	✓	✓	✓	✓	✓	✓
6	19811E0006	BODDAPU SIREESHA	✓	✓	✓	✓	✓	✓
7	19811E0007	BODDU LIKITHA	✓	✓	✓	✓	✓	✓
8	19811E0008	BUKKA GANGA VENKATA LAKSHMI	✓	✓	✓	✓	✓	✓
9	19811E0009	CHARAKANA SAI KIRAN	✓	✓	✓	✓	✓	✓
10	19811E0010	CHIPURIPALLI JAGADEESH	✓	✓	✓	✓	✓	✓
11	19811E0011	DADI PRAKASH	✓	✓	✓	✓	✓	✓
12	19811E0012	DEVARAPU MANIKANTA	✓	✓	✓	✓	✓	✓
13	19811E0013	GORLE HARIKA	✓	✓	✗	✓	✓	✓
14	19811E0014	GURRALA ADITHYA	✓	✓	✓	✓	✓	✓
15	19811E0016	KALANADAM NOOKARAJU	✓	✓	✓	✓	✓	✓
16	19811E0017	KUSIREDDY RAJESH	✓	✓	✓	✓	✓	✓
17	19811E0018	LANKA HIMAJA	✓	✓	✓	✓	✓	✓
18	19811E0020	M V R CHANDRAMOULI	✓	✓	✓	✓	✓	✓
19	19811E0021	MANEPALLI CHINNARI	✓	✓	✓	✓	✓	✓
20	19811E0023	MINDI LOVA RAJU	✓	✓	✓	✓	✓	✓
21	19811E0024	MONDEM SANYASIRAO	✓	✓	✓	✓	✓	✓
22	19811E0025	MUPPANDMAM MOUNIKA	✓	✓	✓	✓	✓	✓
23	19811E0026	MURAKADA LEELAVATHI	✓	✓	✓	✓	✓	✓
24	19811E0027	MUTTA SRIRAM SANTHOSH	✓	✓	✓	✓	✓	✓
25	19811E0029	OMMI SRINU	✓	✓	✓	✗	✓	✓
26	19811E0030	PENUMETHSA RAVICHANDRA VARMA	✓	✓	✓	✓	✓	✓
27	19811E0031	PETLA MADHAVI	✓	✓	✓	✓	✓	✓
28	19811E0032	PILLA HIMA BINDU	✓	✓	✓	✓	✓	✓
29	19811E0033	POLIPALLI GANESH	✓	✓	✓	✓	✓	✓
30	19811E0034	PIILA GANESH	✓	✓	✓	✓	✓	✓
31	19811E0035	REDDY SOMUNAIDU	✓	✓	✓	✓	✓	✓
32	19811E0036	SAKIREDDI CHITTIBABU	✓	✓	✓	✓	✓	✓
33	19811E0037	SALAPU LAKSHMI	✓	✗	✓	✓	✓	✓
34	19811E0038	SALAPU RAMA	✓	✓	✓	✓	✓	✓

35	19811E0039	SANAPATHI KUSUMA KAVYA	✓	✓	✓	✓	✓	✓
36	19811E0041	SUNKARA NIRMALA KUMARI	✓	✓	X	✓	✓	✓
37	19811E0043	UPPU NAVA BHASANTHI	✓	✓	✓	✓	✓	✓
38	19811E0046	YADAGIRI VENKATA GANESH	✓	✓	✓	✓	✓	✓
39	19811E0047	YARRA BHAGYASRI	✓	✓	✓	✓	✓	✓
40	19811E0048	YEDLA GANGARAJU	✓	✓	✓	✓	✓	✓
41	19811E0049	VADAPALLI VENKATA SRICHARAN	✓	✓	✓	✓	✓	✓
42	19811E0050	MOTAMARRI GANGA BHAVANI	✓	✓	✓	✓	✓	✓
43	18811E0001	ADABALA SAIKUMAR	✓	✓	✓	✓	✓	✓
44	18811E0002	AKKUNAYUDU CHEEPURUPALLI	✓	✓	✓	✓	✓	✓
45	18811E0003	ALUGU CHANDRA PRIYANKA	✓	✓	✓	✓	✓	✓
46	18811E0005	BADIREDDY MANOJ SIVA SURYA SAI SRINU	✓	✓	✓	X	✓	✓
47	18811E0006	BODDU LOHITHA	✓	✓	✓	✓	✓	✓
48	18811E0007	BOLEM RAMAKRISHNA	✓	✓	✓	✓	✓	✓
49	18811E0008	CHINTHI APPALANAIDU	✓	✓	✓	✓	✓	✓
50	18811E0009	CHIRUKOOTI VENKATA RAMAKRISHNA	✓	✓	✓	✓	✓	✓
51	18811E0010	DANTULURI ANITHA	✓	✓	✓	✓	✓	✓
52	18811E0011	ETAMSETTI APPALANAIDU	✓	✓	✓	✓	✓	✓
53	18811E0013	GANAPATHIRAJU SANDEEP VARMA	✓	✓	✓	✓	✓	✓
54	18811E0014	GANDI KISHOR	✓	✓	✓	✓	✓	✓
55	18811E0016	GANISETTI DINESH	✓	✓	✓	✓	✓	✓
56	18811E0017	GORLI SATISH	✓	✓	✓	✓	✓	✓
57	18811E0018	GUDIVADA VENKATA CHINA JYOTHI	✓	X	✓	✓	✓	✓
58	18811E0019	GURALA VENKATALAKSHMI	✓	✓	✓	✓	✓	✓
59	18811E0020	ITTHAMSETTI SURESH	✓	✓	✓	✓	✓	✓
60	18811E0021	JAVVADI INDRANI	✓	✓	✓	✓	✓	✓
61	18811E0022	KALLEMPUDI GANGADHAR	✓	✓	✓	✓	✓	✓
62	18811E0024	KANNAMREDDI SURYA PRAKASHA RAO	✓	✓	✓	✓	✓	✓
63	18811E0025	KARRI ANITHA	✓	✓	✓	✓	✓	✓
64	18811E0027	KEDARISETTI ROJA	✓	✓	✓	✓	✓	✓
65	18811E0028	KODURU GANGADHAR	✓	✓	✓	✓	✓	✓
66	18811E0029	KOLLANA MANASA SOWJANYA	✓	✓	✓	✓	✓	✓
67	18811E0030	KOLLI HEMNATH	✓	✓	✓	✓	✓	✓
68	18811E0033	KOTRA DIVYASRI	✓	✓	✓	X	✓	✓
69	18811E0035	KUNDRAPU SIVA	✓	✓	✓	✓	✓	✓
70	18811E0037	LAKKOJU VENKATA SATYA BHARGAV	✓	✓	✓	✓	✓	✓



AVANTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram (V), Makavarapalem (M), Visakhapatnam Dist. 531113.

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Certificate of Participation

This is to certify that Mr./Ms. _____ of has participated in the Certificate Course entitled on **BUSINESS ANALYTICS-INTRODUCTORY COURSE USING PROGRAMMING-R** during 14th December 2020 to 19th December 2020 was organised by the Department of Management Studies at Avanathi Institute of Engineering and Technology.

Coordinator

HOD

Principal



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DEPARTMENT OF MANAGEMENT STUDIES

Dt: 22-12-2020

BRIEF REPORT

Department of Management Studies, Avanthi Institute of Engineering and Technology had organized a certificate course on “Business Analytics -Introductory course programming-R For beginners” during 14-12-2020 to 19-12-2020.

We had Prof P. Venkateswarlu, Department of Commerce & Management, Andhra University, the speakers explained the Introduction to Business analytics-introductory course using programming-R: Taking in and processing historical business data. Analyzing the data to identify trends patterns, and root causes. Making data-driven business decisions based on those insights. The Participants have benefitted from the course.

We had Prof U.V Adinarayana Rao, GITAM Institute of Management, GITAM Deemed to be University. The speakers explained the Descriptive Statistics using programming-R: Taking in and processing historical business data. Analyzing the Clustering, text Classification, and root causes. Making data-driven business decisions based on those insights. The Participants have benefitted from the course.


Coordinator


Head of the Department

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