

# Report On “Workshop on Data Analytics for Engineers”

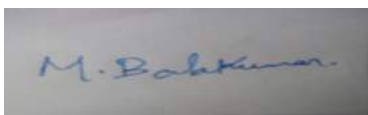
held on 21th – 22th February 2019

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING



**Dr. S. Gopinath**



**Mr. M Balakumar**

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117.  
Tamilnadu, INDIA.

**Dr. S. Ramesh Babu**  
Convenor

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**BROCHURE:**

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Pennalur, Sriperumbudur (TK) – 602 117



**DEPARTMENT OF MECHANICAL  
ENGINEERING**

Solicit your esteemed presence for the

**INAUGURAL FUNCTION**

of

*Two Day Workshop*

on

*Data Analytics for Engineers*

By

**Dr. G.Rajendran, Ph.D(IITM)**

**Professor (Retd.), Anna University, Chennai -25.**

<b>Venue</b>	<b>:</b>	<b>Video Hall, SVCE</b>
<b>Date</b>	<b>:</b>	<b>21<sup>st</sup> February 2019</b>
<b>Timings</b>	<b>:</b>	<b>9.00 A.M. to 9.30 A.M.</b>

**ALL ARE WELCOME**

**PROGRAM SCHEDULE:**

<b>Date</b>	<b>Session</b>	<b>Time</b>		<b>Speakers</b>
<b>21/02/19 Thursday</b>		9.00 A.M.- 9.30 A.M.	<b>Inauguration Function</b>	Presential Address By Dr.K.S Badrinathan, Professor & Dean (Educational Development),S.V.C.E Inaugural Address By Dr.G.Rajendran, Professor (Retd.) Anna University, Chennai
	I	9.30 A.M - 11.00 A.M.	Data Types, Mean, Mode and Median,Hypothesis Testing	Dr.G.Rajendran, Professor (Retd.) Anna University, Chennai
		11.00. A.M. - 11.15 A.M.	<b>Tea Break</b>	
	II	11.15 A.M. - 12.30 P.M.	Descriptive Statistics, Correlation Regression - Different types of Regression	Dr.B.Thilaka, Professor, S.V.C.E.
		12.30 P.M. - 1.30 P.M.	<b>Lunch Break</b>	
	III	1.30 P.M. -4.00 P.M.	Python Programming and Python Practical Lab Session	Mr.Bose .Ramar, Freelance Expert
<b>22/02/19 Friday</b>	IV	8.30 A.M. -11.00 A.M.	Linear Simple Regression Multiple Regression	Dr.B.Thilaka, Professor, S.V.C.E.
		11.00. A.M. - 11.15 A.M.	<b>Tea Break</b>	
	V	11.15 A.M. - 12.30 P.M.	Introduction of "R" Programming and Simple Program for Statistical Analysis	Mr. Bose Ramar, Freelance Expert
		12.30 P.M. - 1.30 P.M.	<b>Lunch Break</b>	
	VI	1.30 P.M. -4.00 P.M.	"R" Programming Practical Lab Session	Mr. Bose Ramar, Freelance Expert
		4.00 P.M -4.15 P.M.	<b>Valedictory Function</b>	

collected and analyzed that error in Industries does not arise again and pinpoint the source of error due to Man, Machine, Material Tools and any other factors. Dr.S. Gopinath, Coordinator of the introduced the Chief Guest Dr.G.Rajendran, and said the about the Course content and practical application of Data analytics by attending this workshop. The workshop inaugurated by Dr.G.Rajendran, Professor (Retd.) Anna University, Chennai and gave the Inaugural address and share his experience and knowledge with the audience.

Star Performer Faculty Name: **Dr.G.Rajendran, Professor (Retd.)**

**Anna University, Chennai**

Star performer Student Name: **Adarsh Krishnaa .V**, [adarshkrishnaav1999@gmail.com](mailto:adarshkrishnaav1999@gmail.com),  
**9585556869**

#### **PARTICIPATION DETAILS:**

No.of Internal/external Students participated: 72/NIL

No.of Internal/external Faculties participated: Total : Nil , Internal : 0, External : 0

**Total No of Participants: 72**

#### **REMARKS OF THE PROGRAM:**

The workshop was conducted for the student knowledge up-dation to give foundation in Statistics, Data analytics, Hand on Practice in Python and "R" Programming for Statistical Analysis which is growing domain in the Engineering Industries. Self-Assessment of ourself where we are and how to go higher in learning Data Analysis.

## TITLE AND DATE OF THE EVENT:

Workshop on Data Analytics for Engineers on 21<sup>st</sup> & 22<sup>nd</sup> Feb 2019

## COORDINATORS DETAILS:

- 1) Dr.S.Gopinath, Associate Professor / MEC
- 2) Mr.M.Balakumar, Assistant Professor / MEC

## PHOTOS OF THE EVENT



Program Banner of Data Analytics for Engineers on 21 & 22 Feb 2019 at SVCE



Dr.G.Rajendran ,Chief Guest & speaker on 21/02/19



Dr.B.Thilaka,Speaker on 21 & 22 Feb 2019.



Mr Bose Ramar,Speaker on 21 & 22 Feb 2019.

## PROGRAM OBJECTIVES & BENEFITS:

The workshop titled “**Two days’ Workshop on Data Analytics for Engineers**” was conducted for the student to give foundation in Statistics, Data analytics, Hand on Practice in Python and “R” Programming for Statistical Analysis. The Workshop began with a Prayer Song, Mr.M. Balakumar, Coordinator welcomed the Chief Guest, other Dignitaries and the Participants of the Workshop. The Presidential Address was given by Dr. S Badrinathan, Professor & Dean (Educational Development), S.V.C.E., who gave valuable information about the use of Data’s

**ATTENDANCE SHEET – SCANNED COPY:**

SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING  
Workshop on Data Analytics for Engineers on 21<sup>st</sup> & 22<sup>nd</sup> Feb 2019

S.No.	Register Number	Name of the Student	Year /Sem	Section	Signature of the Student			
					21/02/2018		22/02/2018	
					FN	AN	FN	AN
1.	1038	Hari Kumar .P ✓	II /IV	A	P.Hari Kumar	P.Hari Kumar	P.Hari Kumar	P.Hari Kumar
2.	1073	Nithin kumar.T.V. ✓	III /VI	B	Nithin Kumar	Nithin Kumar	Nithin Kumar	Nithin Kumar
3.	1090	Sarvesh kumar ✓	III /VI	B	Sarvesh Kumar	Sarvesh Kumar	Sarvesh Kumar	Sarvesh Kumar
4.	1009	Akshay Mohan ✓	II /IV	A	Akshay Mohan	Akshay Mohan	Akshay Mohan	Akshay Mohan
5.	1023	Aswin Anil ✓	II /IV	A	Aswin Anil	Aswin Anil	Aswin Anil	Aswin Anil
6.	1024	Balachandar .P ✓	II /IV	A	B.P. Balachandar	B.P. Balachandar	B.P. Balachandar	B.P. Balachandar
7.	1004	Adarsh Krishna <sup>aa.v</sup> ✓	II /IV	A	V. Adarsh	V. Adarsh	V. Adarsh	V. Adarsh
8.	1081	Rishi .P ✓	II /IV	B	Rishi P.	Rishi P.	Rishi P.	Rishi P.
9.	1084	Rohan Adikari ✓	II /IV	B	Rohan Adikari	Rohan Adikari	Rohan Adikari	Rohan Adikari
10.	1115	Vignesh.R ✓	II /IV	B	R. Vignesh	R. Vignesh	R. Vignesh	R. Vignesh
11.	1075	Rahul.C ✓	II /IV	B	C. Rahul	C. Rahul	C. Rahul	C. Rahul
12.	1042	Gowtham.D	IV /VIII	A	—	—	—	—

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Workshop on Data Analytics for Engineers on 21<sup>st</sup> & 22<sup>nd</sup> Feb 2019

13.	1021	Aswath.R ✓	II /IV	A	Aswath R.	Aswath R.	Aswath R.	Aswath R.
14.	1306	Krishnan.K.V. ✓	II /IV	A	K.V. Krishnan	K.V. Krishnan	K.V. Krishnan	K.V. Krishnan
15.	1302	Balaji.R ✓	II /IV	A	Balaji R.	Balaji R.	Balaji R.	Balaji R.
16.	1011	AnuSriraman.R ✓	II /IV	A	Anu Sriraman	Anu Sriraman	Anu Sriraman	Anu Sriraman
17.	1305	Karthick raja.V ✓	II /IV	A	Karthick Raja	Karthick Raja	Karthick Raja	Karthick Raja
18.	1040	Kaviyarsan.R ✓	I /II	A	Kaviyarsan R.	Kaviyarsan R.	Kaviyarsan R.	Kaviyarsan R.
19.	1022	Gokulakrishnan.K ✓	I /II	A	Gokulakrishnan K.	Gokulakrishnan K.	Gokulakrishnan K.	Gokulakrishnan K.
20.	1048	Manoj kumar.R ✓	I /II	A	R. Manoj Kumar	R. Manoj Kumar	R. Manoj Kumar	R. Manoj Kumar
21.	1014	Barath.M ✓	I /II	A	M. Barath	M. Barath	M. Barath	M. Barath
22.	1003	Akash.K	I /II	A	—	—	—	—
23.	1301	Abishek raja ✓	II /IV	A	Abishek Raja	Abishek Raja	Abishek Raja	Abishek Raja
24.	1008	Akash .D	II /IV	A	—	—	—	—
25.	1047	Kaniyaamadhan V.P. ✓	II /IV	A	V.P. Kaniyaamadhan	V.P. Kaniyaamadhan	V.P. Kaniyaamadhan	V.P. Kaniyaamadhan
26.	1045	Joel.A ✓	II /IV	A	Joel A.	Joel A.	Joel A.	Joel A.

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Workshop on Data Analytics for Engineers on 21<sup>st</sup> & 22<sup>nd</sup> Feb 2019

22/2/19  
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27.	1072	Manish G D	IV/VIII	B	<del>G.D. Manish</del>	<del>G.D. Manish</del>	G.D. Manish	G.D. Manish
28.	1074	Manoj kumar M	IV/VIII	B	<del>M. Manoj</del>	<del>M. Manoj</del>	M. Manoj	M. Manoj
29.	1119	N. YUGENDHAR Yugedhar-N	III/VI	B	<del>N. Y. Yugedhar</del>	<del>N. Y. Yugedhar</del>	N. Y. Yugedhar	N. Y. Yugedhar
30.	1084	N. Rajapandian Rajpandian-N	III/VI	B	<del>N. Rajapandian</del>	<del>N. Rajapandian</del>	N. Rajapandian	N. Rajapandian
31.	1068	Naveen K	III/VI	B	<del>N. Naveen</del>	<del>N. Naveen</del>	N. Naveen	N. Naveen
32.	1047	Manobalan.S ✓	I/II	A	S. Manobalan	S. Manobalan	S. Manobalan	S. Manobalan
33.	1117	Yaswanth K R	III/VI	B	<del>Y. K. R.</del>	<del>Y. K. R.</del>	Y. K. R.	Y. K. R.
34.	1107	Surya C S ✓	II/IV	B	<del>S. C. S.</del>	<del>S. C. S.</del>	S. C. S.	S. C. S.
35.	1085	Rohit Antony	II/IV	B	<del>R. Antony</del>	<del>R. Antony</del>	R. Antony	R. Antony
36.	1072	Pravin raj. S ✓	II/IV	B	<del>P. Raj. S.</del>	<del>P. Raj. S.</del>	P. Raj. S.	P. Raj. S.
37.	1073	Punith Krishnan G ✓	II/IV	B	<del>P. Krishnan</del>	<del>P. Krishnan</del>	P. Krishnan	P. Krishnan
38.	1097	Sathish kumar M ✓	II/IV	B	<del>S. M.</del>	<del>S. M.</del>	S. M.	S. M.
39.	1089	Saisree Chandra S ✓	II/IV	B	<del>S. Chandra</del>	<del>S. Chandra</del>	S. Chandra	S. Chandra
40.	1076	Rahul, S ✓	II/IV	B	<del>R. S.</del>	<del>R. S.</del>	R. S.	R. S.

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41.	1100	M. Su Hanish	III/VI	B	M. Su Hanish	M. Su Hanish	M. Su Hanish	M. Su Hanish
42.	1097	Sibi Pugalanthi	III/VI	B	<del>S. Pugalanthi</del>	<del>S. Pugalanthi</del>	S. Pugalanthi	S. Pugalanthi
43.	1007	AKSHAY G	III/VI	A	<del>A. G.</del>	<del>A. G.</del>	A. G.	A. G.
44.	1001	AADITHYA M	III/VI	A	<del>A. M.</del>	<del>A. M.</del>	A. M.	A. M.
45.	1117	K. R. Yaswanth	III/VI	B	<del>K. R. Y.</del>	<del>K. R. Y.</del>	K. R. Y.	K. R. Y.
46.	1084	N. Rajapandian	III/VI	B	<del>N. Rajapandian</del>	<del>N. Rajapandian</del>	N. Rajapandian	N. Rajapandian
47.	1068	K. Naveen	III/VI	B	<del>K. Naveen</del>	<del>K. Naveen</del>	K. Naveen	K. Naveen
48.	1013	Arumugam Adithian	III/VI	A	<del>A. Adithian</del>	<del>A. Adithian</del>	A. Adithian	A. Adithian
49.	1002	Aakash T	III/VI	A	<del>A. T.</del>	<del>A. T.</del>	A. T.	A. T.
50.	1018	AUSHWIN S	III/VI	A	<del>A. S.</del>	<del>A. S.</del>	A. S.	A. S.
51.	1005	G. AJAY KUMAR	III/VI	A	<del>G. K.</del>	<del>G. K.</del>	G. K.	G. K.
52.	1008	S. AMUDHAN.	III/VI	A	<del>S. Amudhan</del>	<del>S. Amudhan</del>	S. Amudhan	S. Amudhan
53.	1016	V. Athriban	III/VI	A	<del>V. Athriban</del>	<del>V. Athriban</del>	V. Athriban	V. Athriban



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54.	1019	A. Balasubramanian	III/VI	A	A. Balasubramanian	A. Balasubramanian	A. Balasubramanian	A. Balasubramanian
55.	1017	Sokul S	III/Auto	-	gff	gff	gff	gff
56.	1033	D. Hari Varshan	III/VI	A	D. Hari	D. Hari	D. Hari	D. Hari
57.	1060	R. Mahesh Krishna	III/VI	A	R. Mahesh Krishna	R. Mahesh Krishna	R. Mahesh Krishna	R. Mahesh Krishna
58.	1011	K. ARAVIND	III/VI	A	K. Aravind	K. Aravind	K. Aravind	K. Aravind
59.	1014	K.S. ARUNRAJ	III/VI	A	<del>K.S. Arunraj</del>	<del>K.S. Arunraj</del>	<del>K.S. Arunraj</del>	<del>K.S. Arunraj</del>
60.	1044	A. Karthikeyan	III/VI	A	A. Karthikeyan	A. Karthikeyan	A. Karthikeyan	A. Karthikeyan
61.	1055	C. Madhankumar	III/6 <sup>th</sup>	A	C. Madhankumar	C. Madhankumar	C. Madhankumar	C. Madhankumar
62.	1051	D. KISHORE KUMAR	III/6 <sup>th</sup>	A	D. Kishore Kumar	D. Kishore Kumar	D. Kishore Kumar	D. Kishore Kumar
63.	-	-	-	-	-	-	-	-
64.	1311	U. PRASANNA VENKATESH	III/VI	A	U. Prasanna Venkatesh	U. Prasanna Venkatesh	U. Prasanna Venkatesh	U. Prasanna Venkatesh
65.	1303	DINESH S.	III/VI	A	D. Dinesh S.	D. Dinesh S.	D. Dinesh S.	D. Dinesh S.
66.	1304	GUHA V.	III/VI	A	G. Guha V.	G. Guha V.	G. Guha V.	G. Guha V.
67.	1040	S. Jayasrinivasan	III/VI	A	S. Jayasrinivasan	S. Jayasrinivasan	S. Jayasrinivasan	S. Jayasrinivasan

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22/2/19  
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68	1049	Kishore Kumar	III/VI	A	Kishore Kumar	Kishore Kumar	Kishore Kumar	Kishore Kumar
69	1052	Lakshmi Narayanan	III/VI	A	Lakshmi Narayanan	Lakshmi Narayanan	Lakshmi Narayanan	Lakshmi Narayanan
70	1025	M. DINESH KUMAR	III/VI	A	M. Dinesh Kumar	M. Dinesh Kumar	M. Dinesh Kumar	M. Dinesh Kumar
71	1031	M. Govardhan	III/6 <sup>th</sup>	A	M. Govardhan	M. Govardhan	M. Govardhan	M. Govardhan
72	1026	DHINESH Rm. R	III/6 <sup>th</sup>	A	D. Dhinesh Rm. R	D. Dhinesh Rm. R	D. Dhinesh Rm. R	D. Dhinesh Rm. R
73	1056	M. Madhulalan	III/6 <sup>th</sup>	A	M. Madhulalan	M. Madhulalan	M. Madhulalan	M. Madhulalan
74	4076	P. Kiyamban	IV/6 <sup>th</sup>	B	P. Kiyamban	P. Kiyamban	P. Kiyamban	P. Kiyamban
75	4069	A. Mahesh	III/6 <sup>th</sup>	B	A. Mahesh	A. Mahesh	A. Mahesh	A. Mahesh
76	1037	S. R. Harish Kumar	III/6 <sup>th</sup>	A	S. R. Harish Kumar	S. R. Harish Kumar	S. R. Harish Kumar	S. R. Harish Kumar

Out of Total 76 nos, 3 Students have repetitive entry which has been strike-off and Serial no 63 is blank without entry. So Total 72 students Attended the workshop.

M. Balasubramanian

Feedback from the Students about the Program

SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING  
on Data Analytics for Engineers on 21<sup>st</sup>& 22<sup>nd</sup> Feb 2019

Name of the Department : *Mechanical*      Name of the Students : *S. Jayasrinivasan.*      Year/Semester/Section : *3<sup>rd</sup> yr - VI*

Date - 21/02/2019	Session - I Topic - Data Types	Session - II Topic Descriptive Statistics, Correlation	Session - III Topic - Python Programming
Course Content	4	5	4
Knowledge and Information from workshop	4	5	4
Instructor was a good communicator	5	5	4
Which topics (or) Aspects of the workshop you find most interesting or useful	<i>Classification of variables</i>	<i>All</i>	<i>Program samples</i>
Presentation	4	5	5
Interaction With Participants	5	4	4
Remarks If any	-	-	-
Date - 22/02/2019	Session - IV Topics - Linear Simple & Multiple Regression	Session - V Topics - "R" Programming Theory	Session - VI Topics - "R" Programming Practice
Course Content	5	5	5
Knowledge and Information from workshop	5	4	5
Instructor was a good communicator	5	4	4
Which topics of the workshop you find most interesting or useful	<i>Regression &amp; correlation</i>		
Presentation	5	5	4
Interaction with Participant	4	4	4
Remarks If any	-	-	-

Rating: Excellent -5 Very Good -4 Good -3 Fair -2 Poor-1

*M. Balakumar*  
23/02/19  
COORDINATOR.

*S. Jayasrinivasan*  
Signature of the Participant

SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING  
on Data Analytics for Engineers on 21<sup>st</sup>& 22<sup>nd</sup> Feb 2019

Name of the Department : *M.E. Mechanical Engineering*      Name of the Students : *S. Ramesh Babu*      Year/Semester/Section : *3<sup>rd</sup> yr - B*

Date - 21/02/2019	Session - I Topic - Data Types	Session - II Topic Descriptive Statistics, Correlation	Session - III Topic - Python Programming
Course Content	5	5	5
Knowledge and Information from workshop	5	5	5
Instructor was a good communicator	5	5	5
Which topics (or) Aspects of the workshop you find most interesting or useful	<i>using and application of data types</i>	<i>descriptive statistics</i>	<i>Bar plot</i>
Presentation	5	5	5
Interaction With Participants	5	5	5
Remarks If any			
Date - 22/02/2019	Session - IV Topics - Linear Simple & Multiple Regression	Session - V Topics - "R" Programming Theory	Session - VI Topics - "R" Programming Practice
Course Content	5	5	5
Knowledge and Information from workshop	4	5	5
Instructor was a good communicator	4	5	5
Which topics of the workshop you find most interesting or useful		<i>Histogram, pie, Bar chart Explanation</i>	<i>Histogram, pie, Bar chart</i>
Presentation	5	5	5
Interaction with Participant	5	5	5
Remarks If any	<i>difficult topics can be taught with application</i>		

Rating: Excellent -5 Very Good -4 Good -3 Fair -2 Poor-1

*M. Balakumar*  
COORDINATOR.

*G.R. Varad*  
Signature of the P

Date - 21/02/2019	Session - I Topic - Data Types	Session - II Topic Descriptive Statistics, Correlation	Session - III Topic - Python Programming
Course Content	5	5	5
Knowledge and Information from workshop	5	5	5
Instructor was a good communicator	5	5	5
Which topics (or) Aspects of the workshop you find most interesting or useful	using and application of data types	descriptive statistics	Bar plot
Presentation	5	5	5
Interaction With Participants	5	5	5
Remarks If any			
Date - 22/02/2019	Session - IV Topics - Linear Simple & Multiple Regression	Session - V Topics - "R" Programming Theory	Session - VI Topics - "R" Programming Practice
Course Content	5	5	5
Knowledge and Information from workshop	4	5	5
Instructor was a good communicator	4	5	5
Which topics of the workshop you find most interesting or useful	-	Histogram, pie, Bar chart Explanation	Histogram, pie, Bar chart
Presentation	5	5	5
Interaction with Participant	5	5	5
Remarks If any	difficult topics can be taught with application		

Rating: Excellent -5 Very Good -4 Good -3 Fair -2 Poor-1

M. Balakumar  
 COORDINATOR

G.P. Varad  
 Signature of the Pa

Date - 21/02/2019	Session - I Topic - Data Types	Session - II Topic Descriptive Statistics, Correlation	Session - III Topic - Python Programming
Course Content	4	5	4
Knowledge and Information from workshop	4	5	4
Instructor was a good communicator	5	5	4
Which topics (or) Aspects of the workshop you find most interesting or useful	Classification of variables	All	Program samples
Presentation	4	5	4
Interaction With Participants	5	4	4
Remarks If any			
Date - 22/02/2019	Session - IV Topics - Linear Simple & Multiple Regression	Session - V Topics - "R" Programming Theory	Session - VI Topics - "R" Programming Practice
Course Content	5	5	5
Knowledge and Information from workshop	5	4	5
Instructor was a good communicator	5	4	4
Which topics of the workshop you find most interesting or useful	Regression & correlation		
Presentation	5	5	4
Interaction with Participant	4	4	4
Remarks If any			

Rating: Excellent -5 Very Good -4 Good -3 Fair -2 Poor-1

M. Balakumar  
 23/02/19  
 COORDINATOR

S. Jayaram  
 Signature of the Participant

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
 on Data Analytics for Engineers on 21& 22 Feb 2019

Name of the Department : Mechanical

Name of the Students :

K.R. Yaswanth

Year/Semester/Section :

III-~~II~~ / VI / B

Date - 21/02/2019	Session - I Topic - Data Types	Session - II Topic Descriptive Statistics, Correlation	Session - III Topic - Python Programming
Course Content	3	3	3
Knowledge and Information from workshop	4	4	4
Instructor was a good communicator	3	4	3
Which topics (or) Aspects of the workshop you find most interesting or useful		<i>regression and applications</i>	<i>Libraries</i>
Presentation	3	4	3
Interaction With Participants	2	4	4
Remarks If any			
Date - 22/02/2019	Session - IV Topics - Linear Simple & Multiple Regression	Session - V Topics - "R" Programming Theory	Session - VI Topics - "R" Programming Practice
Course Content	4	4	
Knowledge and Information from workshop	4	4	
Instructor was a good communicator	4	3	
Which topics of the workshop you find most interesting or useful	<i>Applications</i>	<i>Syntax and program execution</i>	<i>Plotting of graphs</i>
Presentation	4	2	3
Interaction with Participant	4	3	3
Remarks If any			

Rating: Excellent -5 Very Good -4 Good -3 Fair - 2 Poor-1

*M. Balakumar*  
28/02/19

*COORDINATOR*

*[Signature]*  
Signature of the Participant

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**WORKSHOP ON DATA ANALYTICS FOR ENGINEERS USING PYTHON AND R-PROGRAMMING**

*Certificate of Participation*

This is to certify that Mr. /Ms. \_\_\_\_\_ has participated in two days workshop on "DATA ANALYTICS FOR ENGINEERS USING PYTHON AND R-PROGRAMMING" Organised by the Department of Mechanical Engineering, Sri Venkateswara college of Engineering, Sriperumbudur on 21-22 February 2019.

Mr.M.Balakumar  
Asst.Professor/ME

Dr.S.Gopinath,  
Asso.Professor/ME

Dr.S.Ramesh Babu,  
HOD/ME