VSM COLLEGE(A)
Ramachandrapuram
(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

TWO DAY NATIONAL WORKSHOP
ON
Data Science, Mathematical & Statastical Analysis Using
" Python & R-Programming "

PROGRAMME SCHEDULE

13th MARCH, 2020

Time		Session
09:30 AM - 10:00 AM	-	**Inaugural Session**
10:00 AM - 11:30 AM	-	**Session - I**
		. Overview of Data Science
		. Data Collection and Cleaning
		. Modeling methods & Delivering results
		. What is R, Why R, Overview of R
11:30 AM - 11:45 AM	-	**Tea Break**
11:45 AM - 01:15 PM	-	**Session - II**
		. Loading Data, Data Exploration
		. Summarising Data
		. Hands on With R for the above Concepts
01:15 PM - 01:45 PM	-	**Lunch Break**
01:45 PM - 03:15 PM	-	**Session - III**
		. Statistical Computing in R
		. Data Analysis in R
		. Hands on With R for the above Concepts
03:15 PM - 03:30 PM	-	**Tea Break**
03:30 PM - 05:00 PM	-	**Session-IV**
		. Machine Learning Concepts in R
		. Case Studies in R
		. Hands on With R for the above Concepts

14th MARCH, 2020

Time		Session
09:30 AM - 11:00 AM	-	**Session - V**
		. Introduction to Python,
		. Differences & Applications in R/Python
11:00 AM - 11:15 AM	-	**Tea Break**
11:15 AM - 12:45 PM	-	**Session - VI**
		. Statistical Computing in Python
		. Data Analysis in Python
		. Hands on With Python Introduction
12:45 PM - 01:15 PM	-	**Lunch Break**
01:15 PM - 02:45 PM	-	**Session - VII**
		. Data Mining Concepts in Python
		. Machine Learning Concepts in Python
		. Hands on with Python
02:45 PM - 03:00 PM	-	**Tea Break**
03:00 PM - 04:30 PM	-	**Session -VIII**
		. Case Studies in Python
		. Hands on with Python
04:30 PM - 05:00 PM	-	**Valedictory Session**

ज्ञान-विज्ञान विमुक्तये

UGC Sponsored

Estd: 1966

TWO DAY NATIONAL WORKSHOP
Under Autonomous Grants
ON
" Data Science, Mathematical & Statistical Analysis using

Python & R-Programming "
13th & 14th March, 2020

Venue : UG Seminar Hall
VSM COLLEGE (Autonomous)

Accredited by NAAC 'B' Grade(2.69 CGPA) Second Cycle

ISO Certified 9001:2015

All India 93rd Rank in NIRF(2017) by MHRD

Affiliated to Adikavi Nannaya University,Rajamahendravaram

About The College :

VSM College (A) is the first offspring of 'Ramachandrapuram Education Society' established in the year 1966 in 14 acres serene environment with the great philanthropist "Vundavalli Satyanarayana Murthy". It is one of the oldest college in East Godavari District & has a prestigious history. The College has celebrated its Golden Jubilee Celebration in 2016. Our College has been twice-accredited at 'B' grade by NAAC. Our College has been selected for the award of " College with Potential for Excellence " by UGC 2010 and achieved 93rd Rank in NIRF 2017. UGC conferred Autonomous Status of our College in 2015. The College started with 200 students and 15 faculty members with P.U.C., B.A., B.Com., and B.Sc. Programmes. Now the College is offering 9 UG Courses and 9 PG Courses. The present students strength of the college is about 2500.

About Ramachandrapuram:

Ramachandrapuram is located at East Godavari District in Andhra Pradesh. It is famous for the temple at Draksharama about Six Kilometers from here. The temple Deity is Lord Bheemeswara. Draksharama is called as Dakshina Kasi. Ramachandrapuram is 40kms from Rajamahendravaram/Kakinada & 20kms from Dwarapudi. Bus services are available frequently. The nearest railway station is Rajamahendravaram/ Dwarapudi.

Theme of the Workshop:

This course aims to provide a practical introduction to Python & R-Programming. Through this Python & R-Programming training, you will gain knowledge in Data Analysis, Machine Learning, Data Visualization, Web Scrap & Natural Language Processing. User will be comfortable operating in the R environment, including external data, manipulating data for specific needs, and runnig summary statistics and visualisations. Upon course completion you will be master the essential tools of Python & R-Programming by the end of this Workshop.

Targetted Audience:

Teachers, Research Scholars & Students from Computer Science & Mathematics Departments.

Overview of Topics:

* Why Data Science
* Delivering Results
* Data Science - An Overview
* Modeling Methods
* Data Collection and Cleaning

Topics Both in Python & R:

* Why Python / R
* Differences and Usages - Python / R
* Loading Data
* Summarizing and Visualizing Data Set
* Data Analysis in Python / R
* R Objects and Classes
* Data Mining Concepts
* Machine Learning
* Case Study related
* Statistical Computing

Program Outcomes:

* The workshop covers all Industry -Relevant Business Analytics Techniques with right mix of theory and hands on sessions.
* There is good blend of theoretical, hands-on and Do-It-Yourself sessions to make the learning experience.

Chief Patron	: Sri M.Narayana Murthy, President & Correspondent
Patrons	: Sri M.S.N Murthy, Academic Director,VSM Group of Institutions Smt K. Madhura Meenakshi, Director,VSM Group of Institutions
Director	: Sri N.S.V. Kiran Kumar Principal, VSM College(A)
Resource Persons	: Dr. K.B.V. Brahma Rao Assoc. Professor, BV Raju College, Bheemavaram Sri Venkata Naga Manoj Oleti Principal Data Scientist ADP Pvt Limited,Hyderabad
Organising Secretaries	: Smt. DBV Lakshmi Lecturer in Computer Science Sri M Phani Kumar Lecturer in Computer Science Kum.G.Sri Ratna Kumari Lecturer in Computer Science Kum. Sharmila.Shaik Lecturer in Computer Science
Conveners	: Sri S.N.Ali Ansari Head, Department of MCA. Major MVV Chowdary Head, Department of Computer Science .

Organising Committee:

Dept of Computer Science	Dept of Mathematics
Sri K Hari Prasad	Smt.N.L.N.Mallika
Kum. P.N.Malleswari	Sri S.Manikanta
Kum. V. Lalitha	Kum.GT Swarna Latha
Kum.B Satya Devi	Smt.Ch.Tanuja
Kum.Ch AnuRadha	Kum.KVDS Prasanna
Smt. M.N.Jyothi	Kum.B.Sai Sindhu
Kum.G Naga Lakshmi	Sri BVVSN Murthy

REGISTRATION

Registration starts at 8:00 AM on the day of the workshop .The fee includes Registration Kit, Study material, Working lunch,Tea, Snacks and Participation Certificate.

For further details Contact :

Sri M Phani Kumar 9550435043

Sri S.N.Ali Ansari 7729972285

UGC SPONSURED NATIONAL WORKSHOP REPORT
ON
" DATA SCIENCE ,MATHEMATICAL AND STATISTICAL ANALYSIS USING PYTHON AND R PROGRAMMING"

INTERDICTION: A National workshop on " Data science ,Mathematical and statistical Analysis using Python and R Programming" held on 13th and 14th march 2020 at VSM College(A), Ramachandrapuram 53325,East Godavari District, Andhra Pradesh It was organized by the Department of Computer Science with the Sponsorship of UGC. Director for this work shop is Sri N KirankumarPrincipal .The Conveners are S N Ali Ansariand Mr. M V VChowdary. Audience come from Different states of India. Most of them are from Teaching Faculty, Research scholars and students of computer science

BACK GROUND: Data Science basically is an combination of mathematics, statistics, programming and design which are manage successfully data collection. Data science has evolved as one of the most promising and in-demand career paths for skilled professionals. It is the best job to go for in this time. Big data" and "data science" may be some of the bigger buzzwords this decade, but they aren't necessarily new concepts. The idea of data science spans many different fields, and has been slowly making its way into the mainstream for over fifty years. In fact, many considered last year the fiftieth anniversary of its official introduction. While many proponents have taken up the stick, made new assertions and challenges.

OBJECTIVIES OF THE WORKSHOP

Participants will develop relevant programming abilities on R and Python

Participants will demonstrate proficiency with statistical analysis of data.

Participants will develop the ability to build and assess data-based models.

Participants will execute statistical analyses with professional statistical software.

Participants will demonstrate skill in data management.

Participants will apply data science concepts and methods to solveproblems in real-world contexts and will communicate these solutions effectively

PROGRAMME: The Programme was started with the lighting of lamp by Chief Guest of Workshop Dr K B V Brahma Rao followed by prayer" Vandematharam"

INAUGURAL SESSION: At the Inaugural session, the Principal Sri N KIran Kumar has given his presidential speech. The Conveners of the workshop Mr S N Ali Ansari and Mr M V VChowdary introduced the theme of the workshop

The Chief Guest of the workshop Dr KBV Brahmarao in his speech explained the need and importance of Data Science Why is it such a demanded position these days ,What skills does a data scientist need

MrVenkata Naga ManojOleti ,Principal Data Scientist,ADP Private Limited,Hyderabad,in his speech Explained as data science work will likely be automated within the next 10 years, there is a clear need for professionals who understand a business need, can devise a data-oriented solution, and then implement that solution."

Data science experts are needed in almost every field, from government security to dating apps. Millions of businesses and government departments rely on big data to succeed and better serve their customers. Data science careers are in high demand and this trend will not be slowing down any time soon, if ever.

Smt K MadhuraMeenakshi, Director ,VSM Group of Institutions Said that Data science is a popular career path throughout the world because specialists can work on exciting projects, implement the most incredible ideas, solve problems, and get paid well. Still, even the most developed countries worldwide have a significant shortage of employees specialized in data science.

TECHNICAL SESSION 1: Dr KBV Brahmarao Started the technical session 1 With the What is Data Science in simple words, Why Data Science, Who is a Data Scientist,What does a Data Scientist do,How is it different from Business Intelligence (BI) and Data Science, The lifecycle of Data Science .and then Data collection and data cleaning and then he explain Modeling methods and delivering results Finally in this session he explain History and Overview of RWhat is R, What is S, The S Philosophy Back to R, Basic Features of R, Free Software Design of the R System, Limitations of R ,R Resources

TECHNICAL SESSION 2 : Dr KBV Brahmarao, technical session 2 starts with some background on R. R is a language and environment that is easy to learn, very flexible in nature, and very focused on statistical computing, making it a great choice for manipulating, cleaning, summarizing, producing probability statistics, and so on.

TECHNICAL SESSION 3: Dr KBV Brahmarao, technical session 3 starts with Statistical computing in R and Data Analysis in R and finally this Session closed with hands on training by using above concepts

TECHNICAL SESSION 4: : MrVenkata Naga ManojOleti ,Principal Data Scientist,ADP Private Limited,Hyderabadget started with how to program in Python one of the most popular language for quick scripts , production software and doing Data Science

TECHNICAL SESSION 5 : Through realistic examples, he explain various fundamental programming concepts, like variables, functions, and control flow. The workshop will be hands-on, with challenging exercises to complete. Unique about this workshop is that we'll a popular environment to run code interactively and do data science

TECHNICAL SESSION 6: In This session he Explained How loading the data, cleaning the data, Python libraries of data science, Explore the data, and finally he explain Visualization concepts

TECHNICAL SESSION 7: Dr Kamala Kumari, Professor and Dean of CDC AdikaviNannaya University, Rajamahendravarm Conducting Hands on Session on R and Python programming in this session she explained different case studies in R and Python

VALEDICTORY FUNCTION: Dr Kamala Kumari Professor and Dean CDC, AdkaviNannayaUniversty, Rajamahendravarm and MrVenkata Naga ManojOleti ,Principal Data Scientist,ADP Private Limited,Hyderabad was the the chief guests of this function. Participants express their views regarding these two days national workshop .Certificates of completion were distributed among the participants at the end. The valedictory function closed with vote of Thanks given by M V VChowdary

At the end of workshop, feedback form provided by organizing committee which was aimed atknowing about the participants' views about the workshop proceedings, what they learnt and whatthey would like to share with committee for improvement of the feature workshops

                                                                    PRINCIPAL

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VSM COLLEGE(A):RAMACHANDRPURAM

UGC SPONSURED NATIONAL WORKSHOP ON

" DATA SCIENCE ,MATHEMATICAL AND STATISTICAL ANALYSIS USING PYTHON AND R PROGRAMMING"

S.No.	Participant Name	Address
1	Sri N.S.V. Kiran Kumar	V.S.M. College(A) Ramachandrapuram
2	Sri S.N. Ali Ansari	V.S.M. College(A) Ramachandrapuram
3	Major MVV Chowdary	V.S.M. College(A) Ramachandrapuram
4	Sri K. Hari Prasad	V.S.M. College(A) Ramachandrapuram
5	Sri M. Phani Kumar	V.S.M. College(A) Ramachandrapuram
6	Smt. D.V.B. Lakshmi	V.S.M. College(A) Ramachandrapuram
7	Kum. P.N. Malleswari	V.S.M. College(A) Ramachandrapuram
8	Kum. G. Sri Ratna Kumari	V.S.M. College(A) Ramachandrapuram
9	Kum. Sharmila Shaik	V.S.M. College(A) Ramachandrapuram
10	Kum. V. Lalitha	V.S.M. College(A) Ramachandrapuram
11	Kum. B. Satya Devi	V.S.M. College(A) Ramachandrapuram
12	Kum. Ch. Anuradha	V.S.M. College(A) Ramachandrapuram
13	Smt. M.N. Jyothi	V.S.M. College(A) Ramachandrapuram
14	Kum. G. Naga Lakshmi	V.S.M. College(A) Ramachandrapuram
15	Smt. N.L.N. Mallika	V.S.M. College(A) Ramachandrapuram
16	Sri S. Manikanta	V.S.M. College(A) Ramachandrapuram
17	Kum. G.T. Swarnalatha	V.S.M. College(A) Ramachandrapuram
18	Smt. Ch. Tanuja	V.S.M. College(A) Ramachandrapuram
19	Kum. KVDS Prasanna	V.S.M. College(A) Ramachandrapuram
20	Kum. B. Sai Sindhu	V.S.M. College(A) Ramachandrapuram
21	Sri BVVSN Murthy	V.S.M. College(A) Ramachandrapuram
22	S. Mohan Kumar	V.S.M. College(A) Ramachandrapuram
23	D. Lakshmi Manikyamba	D.L.R. College, G.Mamidada
24	K. Manisha	D.L.R. College, G.Mamidada
25	Md. R. Nadeem	Adikavi Nannaya University, MSN Campus, Kakinada
26	K.N.S.S.V. Prasad	Adikavi Nannaya University, MSN Campus, Kakinada
27	M.A. Sayeed	Adikavi Nannaya University, MSN Campus, Kakinada
28	K.V.V. Ramana	Adikavi Nannaya University, MSN Campus, Kakinada
29	D. Meenakshi	Government Degree College, Tiruvuru
	STUDENTS	
1	B. Bhuvana	V.S.M. College(A) Ramachandrapuram
2	P.V.V. Sita Rama Pandu	V.S.M. College(A) Ramachandrapuram
3	K. Durga Bhavani	V.S.M. College(A) Ramachandrapuram

4	N. Sai Jyothika	V.S.M. College(A) Ramachandrapuram
5	V. Amrutha Valli	V.S.M. College(A) Ramachandrapuram
6	D. Vijay Kumar	V.S.M. College(A) Ramachandrapuram
7	Ch. Priyanka	V.S.M. College(A) Ramachandrapuram
8	V. Sherely	V.S.M. College(A) Ramachandrapuram
9	V.N.S. Kumari	V.S.M. College(A) Ramachandrapuram
10	T. Santhoshi	V.S.M. College(A) Ramachandrapuram
11	K. Durga Prasad	V.S.M. College(A) Ramachandrapuram
12	V. Sandhya	V.S.M. College(A) Ramachandrapuram
13	K. Deepthi	V.S.M. College(A) Ramachandrapuram
14	Ch. Tejaswini	V.S.M. College(A) Ramachandrapuram
15	Ch. Vijay Sai Kumar	V.S.M. College(A) Ramachandrapuram
16	K. Sri Lakshmi	V.S.M. College(A) Ramachandrapuram
17	M. Krishna Tulasi	V.S.M. College(A) Ramachandrapuram
18	S. Habiba Khatun	V.S.M. College(A) Ramachandrapuram
19	T. Teja Gandhi	V.S.M. College(A) Ramachandrapuram
20	V.S.S.K. Veera Lakshmi	V.S.M. College(A) Ramachandrapuram
21	P. Padmavathi Devi	BVC College, Amalapuram
22	S. Madhuri	BVC College, Amalapuram
23	Y. Divya Lakshmi	BVC College, Amalapuram
24	A.S.M. Puspa Tayaru	BVC College, Amalapuram
25	D. Ramya	BVC College, Amalapuram
26	B. Charishma	BVC College, Amalapuram
27	T.V.V. Jyothi	BVC College, Amalapuram
28	D. Jaya Sri	BVC College, Amalapuram
29	N. Priyanka	BVC College, Amalapuram
30	G. Satya	BVC College, Amalapuram
31	M. Krupa Satya Jyothi	BVC College, Amalapuram
32	D. Sri Surya Swathi	BVC College, Amalapuram
33	B. Annapurna	BVC College, Amalapuram
34	A. Pusparaju	BVC College, Amalapuram
35	Ch. Chinmai Ganesh	Pragathi Engineering College, Surampalem
36	R. Manikanta	Pragathi Engineering College, Surampalem
37	V.S.T. Aruna Jyothi	Adikavi Nannaya University, MSN Campus, Kakinada
38	D. Keerthi Sagar	Adikavi Nannaya University, MSN Campus, Kakinada
39	D. Venkatesh	Adikavi Nannaya University, MSN Campus, Kakinada
40	A. Vijay Kumar	Adikavi Nannaya University, MSN Campus, Kakinada
41	M. Sarada	Adikavi Nannaya University, MSN Campus, Kakinada
42	Sk. Masheera	Adikavi Nannaya University, MSN Campus, Kakinada

43	K. Vara Lakshmi	Adikavi Nannaya University, MSN Campus, Kakinada
44	N. Venkata Sai Kumar	Adikavi Nannaya University, MSN Campus, Kakinada
45	M. Varalakshmi	Adikavi Nannaya University, MSN Campus, Kakinada
46	Y.L. Hemalatha	Adikavi Nannaya University, MSN Campus, Kakinada
47	V. Santhosh Kumari	Adikavi Nannaya University, MSN Campus, Kakinada
48	M. Siva Sankar	Adikavi Nannaya University, MSN Campus, Kakinada
49	B. Sri Harshini	Adikavi Nannaya University, MSN Campus, Kakinada
50	D. Swamy	Adikavi Nannaya University, MSN Campus, Kakinada
51	N. Sasi Priya	Adikavi Nannaya University, MSN Campus, Kakinada
52	P.N.L. Ramadevi	Srinivasa Institute of Engineering and Technology
53	Y. Shanmokesh	Sri Samhitha Degree College
54	S.K. Babji Rahmen	Sri Samhitha Degree College
55	S. Varun	Adikavi Nannaya University, MSN Campus, Kakinada

V.S.M.COLLEGE(A)::RAMACHANDRAPURAM
TWO-DAY NATIONAL WORKSHOP ON
"DATASCIENCE,MATHEMATICAL & STATASTICAL ANALYSIS USING PYTHON & R-PROGRAMMING"

14th MARCH, 2020

ATTENDENCE SHEET

S.NO	PARTICIPANT NAME	COLLEGE/UNIVERSITY NAME	SESSION-1	SESSION-2	SESSION-3	SESSION-4
1	Sri N.S.V.Kiran Kumar	VSM COLLEGE(A), RAMACHANDRAPURAM				
2	Sri S.N.Ali Ansari	VSM COLLEGE(A), RAMACHANDRAPURAM				
3	Major MVV Chowdary	VSM COLLEGE(A), RAMACHANDRAPURAM	M.v.v. Raul	M.v.v. Raul		
4	Sri K.Hari Prasad	VSM COLLEGE(A), RAMACHANDRAPURAM				
5	Sri M.Phani Kumar	VSM COLLEGE(A), RAMACHANDRAPURAM				
6	Smt.DVB Lakshmi	VSM COLLEGE(A), RAMACHANDRAPURAM	DBVlakshmi	DBVlakshmi	DBVlakshmi	
7	Kum.P.N.Malleswari	VSM COLLEGE(A), RAMACHANDRAPURAM	P.N.Mallesari	P.N.Malleswari		
8	Kum. G.Sri Ratna Kumari	VSM COLLEGE(A), RAMACHANDRAPURAM	G.S.R	G.S.R	G.S.R	
9	Kum. Sharmila.Shaik	VSM COLLEGE(A), RAMACHANDRAPURAM	Shaik	Shaik	Shaik	
10	Kum. V.Lalitha	VSM COLLEGE(A), RAMACHANDRAPURAM	V.lalita.	V.lalita.	V.lalita.	V.lalita.
11	Kum. B.Satya Devi	VSM COLLEGE(A), RAMACHANDRAPURAM	B.Satyadevi	B.Satyadevi	B.satyadevi	
12	Kum. Ch.AnuRadha	VSM COLLEGE(A), RAMACHANDRAPURAM	Ch.Anuradha.	Ch.Anuradha.	Ch.Anuradha.	Ch.Anuradha.
13	Smt.M.N.Jyothi	VSM COLLEGE(A), RAMACHANDRAPURAM	M.Naga Jyothi	M.Naga Jyothi	M.Naga Jyothi	M.Naga Jyothi

14	Kum. G.Naga Lakshmi	VSM COLLEGE(A), RAMACHANDRAPURAM	G.Naga lat shmi	G.Naga lakshmi	G.Naga lakshmi	G.Naga lakshm
15	Smt. N.L.N.Mallika	VSM COLLEGE(A), RAMACHANDRAPURAM	N.L.N.Mallika	N.L.N.Mallika	N.L.N.Mallika	N.L.N.Mallika
16	Sri S.Mankanta	VSM COLLEGE(A), RAMACHANDRAPURAM				
17	Kum. GT Swarna Latha	VSM COLLEGE(A), RAMACHANDRAPURAM	G.T.S.LR	G.T.S.LR	G.T.S.LR	G.T.S.LR
18	Smt.Ch.Tanuja	VSM COLLEGE(A), RAMACHANDRAPURAM	ch. Tanuja	ch.Tanuja	ch.Tanuja	ch.Tanuja
19	Kum. KVDS Prasanna	VSM COLLEGE(A), RAMACHANDRAPURAM	K.Prasanna	K.Prasanna	K.Prasanna	K.Prasanna
20	Kum. B.Sai Sindhu	VSM COLLEGE(A), RAMACHANDRAPURAM	B. Sindhu	B. Sindhu	B. Sindhu	B. Sindhu
21	Sri BVVSN Murthy	VSM COLLEGE(A), RAMACHANDRAPURAM	B.v.v.s.o.m	B.vvsam	B.v.vs.o.m	B.v.USam
22	S.Mohan kumar	VSM COLLEGE(A), RAMACHANDRAPURAM	S.mohan kumar	S.mohan	S.mohan	S.mohan
23	D.Lakshmi Manikyamba	D.L.RCOLLEGE,G.MAMIDADA	D. Lakshmi Manikyamba	D. Lakshmi Manikyamba	D. Lakshmi Manikyamba	D.Laksh Manikya
24	Manisha . K	D.L.RCOLLEGE,G.MAMIDADA	k.chishe	k.chishe	k.chishe	k.chishe
25.	Md.R.Nadeem	Adikavi Nannaya University MsN campus, Kakinada.				
26.	K.N.S.S.V.Prasad	''	K.prasad	K.prasad	K.prasad	K.prasad
27.	M.A.sayeed	Ideal college of Arts and Science, KKD.				
28.	K.V.V.Ramana	Adikavi Nannaya University MsN campus, KKD				
29.	D.Meenakshi	Government Degree college, Tiruvuru	D.M.k.l.	D.M.k.l.	D.M.k.l.	
30.	Dr.G.S.N.Murthy	Aditya Eng College, surmpt				
31	N S P S R prasad	VSM C (A)				

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15	Smt. N.L.N.Mallika	VSM COLLEGE(A),RAMACHANDRAPURAM	N.L.N.Mallika	Email.ID
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17	Kum. GT Swarna Latha	VSM COLLEGE(A),RAMACHANDRAPURAM	G.T.S.Leela	tanushaswarna@gmail.com.
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19	Kum. KVDS Prasanna	VSM COLLEGE(A),RAMACHANDRAPURAM	K.Prasanna.	Psapnra32062@gmail.com.
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Latitude: 16.842622
Longitude: 82.017786
Elevation: 0.83m
Accuracy: 13.9m
Time: 03-13-2020 10:17
Note: python&R programming workshop

Latitude: 16.834983
Longitude: 82.026239
Accuracy: 3200.0m
Time: 14-03-2020 17:10
Note: python & R programming

Latitude: 16.842563
Longitude: 82.01784
Elevation: 17.62m
Accuracy: 13.9m
Time: 03-13-2020 10:42
Note: python&R programming workshop
Powered by NoteCam

Latitude: 16.842594
Longitude: 82.017862
Elevation: 4.97m
Accuracy: 21.4m
Time: 03-13-2020 10:30
Note: python&R programming workshop
Powered by NoteCam
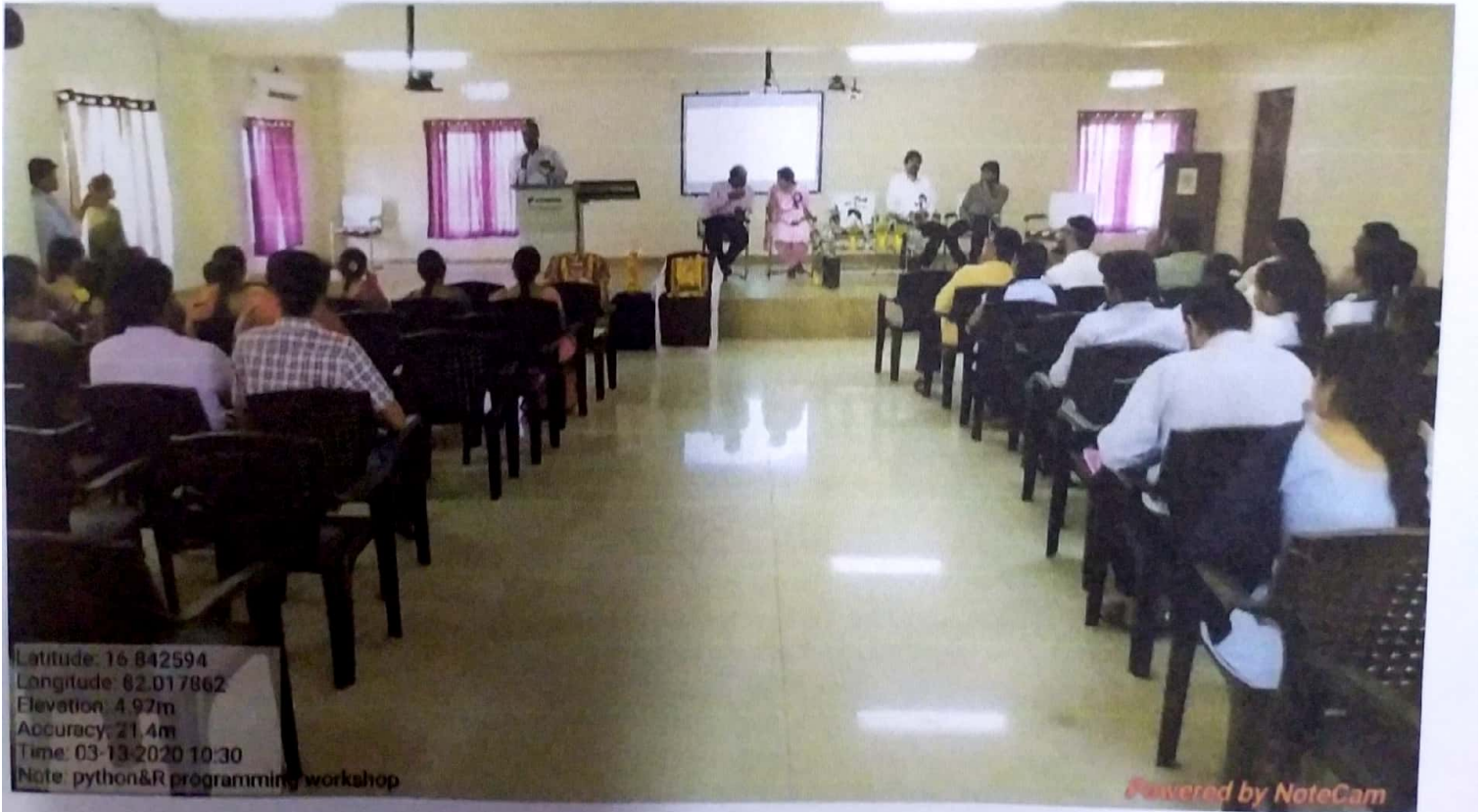
Latitude: 16.831874
Longitude: 82.031007
Accuracy: 3100.0m
Time: 03-13-2020 11:49
Note: python&R programming workshop

Powered by NoteCam

Latitude: 16.842392
Longitude: 82.019086
Accuracy: 2900.0m
Time: 14-03-2020 17:20
Note: python & R- programming

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