



Mr. S.V. Rajguru guided the students of B.Sc. III (Statistics) on the “Analysis of Non- Normal Data”. (Date: 5 December 2022)

**Shikshan Prasarak Sanstha's**  
**Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal**  
**Department of Statistics**

**Report on**

**Guest Lectures under MoU**

**Date : 5<sup>th</sup> December 2022 (1.00 pm to 2.00 pm)**

**Submitted to**

**Internal Quality Assurance Cell (IQAC)**

**Date: 12/12/2022**

**Time: 11.00 a.m.**

**Venue: IQAC OFFICE**



## Report of Guest Lecture:

### Report of Guest Lecture on “Analysis of Non-Normal Data”

Title	Guest Lecture Under MoU on “Analysis of Non-Normal Data ”
Day & Date	Monday , 5 <sup>th</sup> December 2022
Organizer	P.V.P. Mahavidyalaya Kavathe Mahankal and Adarsh College Vita
Funding	P.V.P. Mahavidyalaya Kavathe Mahankal
Coordinator	Mr. V. V. Koshti (Asso. Prof.) Mr. G. D. Satpute
Resource Person	Mr. S. V. Rajguru Assi. Professor, Department of Statistics Shivaji University, Kolhapur
Background	In the revised syllabus of B.Sc. III Paper XI (Design Of Experiment) the concept Of model adequacy checking and analysis of non-normal data are introduced which are quite new. So to understand these concepts to students as well as teachers a guest lecture is arranged.
Objective	To understand the Important concept added in the revised syllabus for students as well as teachers. Also to learn how to perform the practical’s on these concepts in uniform manner.
Conclusion	In the lecture the concepts of model adequacy and analysis of non- normal data are discussed along with examples. The practical’s on them are also demonstrated. So the lecture was very fruitful to B.Sc. III Students of the college and also teachers.

#### Brief summary Table

Sr.No.	Organizing department	Internal Quality Assurance Cell (IQAC)		
1	Title of Activity	Guest Lecture Under MoU		
2	Date of Activity	Monday , 5 <sup>th</sup> December 2022		
3	Venue	Department of Statistics		
4	Participation			
		Male	Female	Total
	Teachers	02	02	04
	Students	10	07	17
	Total	12	9	21

**Acting Principal**

**Padmashri Venkatesh Patil**  
Mahavidyalaya, K. Mahankal Dist. Sangli.



## Permission Letter

Shikshan Prasarak Sanstha's  
Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal

### DEPARTMENT OF STATISTICS

Date: 01/12/2022

To,  
The Principal,  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, Kavathe Mahankal

**Subject:** Request for Permission to Conduct a Guest Lecture

Respected Sir,

I am writing to request permission for Guest Lecture on "Analysis of Non- Normal Data", a distinguished expert in Statistics to deliver a guest lecture at department of statistics. We are planning to hold this lecture on Sunday 5<sup>th</sup> December 2022 as part of our B.Sc. I, II, & III in Statistics.

The lecture will be conducted in person, and we will ensure all necessary arrangements are made to accommodate Mr. S. V. Rajguru comfortably. We anticipate that the session will last approximately 60 minutes and will include a Question & Answer .

Thank you for considering this request. Please grant the permission for the same.

**Mr. Koshti V. V.**  
Asso. Professor  
Department of Statistics

*Permission granted*

  
**Acting Principal**  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, Kavathe Mahankal Dist-Sangli



**Brochure: Guest Lecture**

**P.V.P. MAHAVIDYALAYA, KAVATHE  
MAHANKAL**

**DEPARTMENT OF STATISTICS**

**Wednesday : 5<sup>th</sup> December 2022 : 1.00 p.m.**

**Guest Lecture Under MoU**

**on**

**“Analysis of Non-Normal Data ”**

**Speaker : Mr. S. V. Rajguru (Assi. Professor)**  
**Dept. of Statistics Shivaji University Kolhapur**

**President : Prof. Dr. M. K. Patil (Ag. Principal)**

**V. V. Koshti**  
**Asso. Prof.**

**Shital Patil**  
**Assi. Prof.**

**Prajakta Patil**  
**Assi. Prof.**

**Ganesh Satpute**  
**Assi. Prof.**



**Notice:-**

**Shikshan Prasarak Sanstha's  
Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal  
Department of statistics**

**Date : 3<sup>th</sup> December 2022**

### **NOTICE**

All the B. Sc.III Statistics students are hereby informed that, Department of Statistics of our college is arranging Guest Lecture Under MoU on "Analysis Of Non-Normal Data" by Mr. S. V. Rajguru ( Assi. Prof. Department Of Statistics, Shivaji University Kolhapur) on Monday 5<sup>th</sup> December 2022. Kindly attend the same. Attendance is compulsory.

**Venue and Time:**

**Guest Lecture: Annex Building Room No. 2, 1.00 p.m.**

**Coordinator of NAAC**



**Acting Principal**  
**Ap. Principal**  
Padmabhushan Vasantrodada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



## Invitation Letter:



**PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA**  
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405  
**Acting Principal Prof. (Dr.) M.K.Patil** M.Sc., M.Phil., Ph.D. Mob. 9405649190  
Phone- 02341-295220 Email : kmpvp@rediffmail.com Website : www.pvpkm.org  
**Jr. College Index No. J 22.04.002**

Ref No. PVPKM/ 963-1/22-23

Date : 3/12/22

To  
Mr. S. V. Rajguru  
Assistant Professor,  
Department of Statistics,  
Shivaji University, Kolhapur

**Subject:- Invitation For Guest Lecture**

Respected Sir,

With great pleasure to inform you that, we are inviting you for Guest lecture for T.Y.B.Sc.(Statistics) students on the topic "Analysis of non- normal Data" on 5<sup>th</sup> Dec. 2022 (at 01:00 p.m.) in our college.

Kindly accept the invitation and grace our students with your lecture.

Thanking you,

Yours faithfully,

**Acting Principal**  
Padmabhushan Vasanttraodada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



**Invitation Letter To students and teacher of Adarsh Mahavidyalaya, Vita  
Under MoU :-**



**PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA**  
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405  
**Acting Principal Prof. (Dr.) M.K.Patil** M.Sc., M.Phil., Ph.D. Mob. 9405649190  
Phone- 02341-295220 Email : kmpvp@rediffmail.com Website : www.pvpmk.org  
**Jr. College Index No. J 22.04.002**

RefNo. PVPMKM/255-2022-23

Date : 30/11/2022

To,  
The Principal,  
Adarsh Mahavidyalaya, Vita

**Subject:- Invitation to T. Y. B.Sc. (Statistics) Students and teacher for the Guest  
Lecture under MoU.**

Respected Sir,

It is quite Pleasure to invite the students of T. Y. B. Sc. (Statistics) along with a teacher for the Guest lecture on 5<sup>th</sup> December 2022 at 01:00 p.m. We have arranged the lecture of Mr. S.V. Rajguru (Assi. Prof., Department of Statistics, Shivaji University, Kolhapur) on the topic "Analysis of Non-Normal data" (Paper-XI – Design of experiment) as the activity under MoU Program. Please, accept our invitation and depute one teacher and T. Y. B.Sc. (Statistics) students as per schedule of Guest Lecture.

**Prof.(Dr.) M. K. Patil**  
Ag. Principal  
**Acting Principal**

Padmabhushan Vasanttraodada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



## Program Schedule:-

**Padmabhushan Vasantrodada Patil Mahavidyalaya, kavathe Mahankal**

*5<sup>th</sup> December 2022 , 01.00 p.m. to 02.00 p.m.*

**DEPARTMENT OF STATISTICS**

★ *Guest Lecture under MoU* ★



*Speaker:- Mr. S. V. Rajguru*

*(Assi. Prof. Dept. of Statistics  
Shivaji University Kolhapur)*

*Topic: - 'Analysis of Non-Normal data '*

*President: Prof. Dr. M. K. Patil*

*(Ag. Principal)*

Asso. Prof. V. V. Koshti    Asst. Prof. Shital Patil    Asst. Prof. Prajakta Patil    Asst. Prof. Ganesh Satpute

**Department of Statistics**



## List of Participants:

P. V. P. MAHAVIDYALAYA, KAVTHE MAHANKAL  
DEPARTMENT OF STATISTICS

Date: 5<sup>th</sup> December 2022 Time: 01:00 p.m. to 02:00 p.m.

Guest Lecture Under MoU On

“Analysis of Non- Normal Data”

Speaker: Mr. S. V. Rajguru ( Assi. Prof.)

### Attendance List

Sr. No.	Name of the students	Class	Sign
1.	Kodam Dhiraj Ravindra	B.Sc III	Rekakat
2.	Kokate Ritesh Shamrao	B.Sc III	Rekakat
3.	Pawar Akshata Madhukar	B.Sc III	Anirac
4.	Purohit Tanaya Dhonanjoy	B.Sc III	DPurohit
5.	Athavale Akanksha Suresh	B.Sc III	As
6.	Bhosale Dhonakar Sanjay	B.Sc III	Bhosale
7.	Mulla Anjum Maula	B.Sc III	Anjum
8.	Sairaj Nandkumar Patil	B.Sc III	Sairaj
9.	Aniket Chubade	B.Sc III	Aniket
10.	Dayanand Hipparkar	B.Sc III	Dayanand
11.	Desai Vikeant Anandao	B.Sc III	Desai
12.	Borkar Sameshwar Ramesh	B.Sc III	S.R.Borkar
13.	Sathe Tejas Tatyasheb	B.Sc III	Sathe
14.	Nodaf Shakil Sardar	B.Sc III	Nodaf
15.	Pawar Vikas Pradip	B.Sc III	V.P.Pawar
16.	Patil Prajwal Shivaji	B.Sc III	Patil
17.	Kodam Pooja Balkrishna	B.Sc III	Pooja
18.	Mr. Vijay Veerbhadrar Koshti	Assi. Prof.	Vijay
19.	Miss. Shital Shivaji Patil	Assi. Prof.	Shital
20.	Mr. Abhilash Peatapsinh Patil	Assi. Prof.	Abhilash
21.	Miss. Shinde Madhuzi Baban	Assi. Prof.	Shinde
22.			
23.			
24.			



Acting Principal

Padmabhushan Vasantaoada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



## List of Participants under MoU:-



### PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA

KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405

Acting Principal Prof. (Dr.) M.K.Patil M.Sc., M.Phil., Ph.D. Mob. 9405649190

Phone- 02341-295220 Email : kmpvp@rediffmail.com Website : www.pvpkm.org

Jr. College Index No. J 22.04.002

RefNo. PVPMKM/ 2022-2023/995

Date : 9/12/2022

To ,  
The Principal,  
Adarsh Mahavidyalaya, Vita

**Subject:- Attendance of Students / Teachers for Guest Lecture.**

Respected Sir,

It is quite Pleasure to inform you that students B.Sc. III (Statistics) along with a teacher had attended the Guest Lecture of Mr. S. V. Rajguru as the Activity of MoU Program arranged by our college.

The topic of guest lecture was "*Analysis of non-normal data*"

Sr. No.	Name	Class	Teacher/ Student
1	Mr. Abhilash Pratapsinh Patil.	----	Teacher
2	Mr. Kadam Dhiraj Ravindra.	B. Sc. III	Student
3	Mr. Kokate Ritesh Shamrao.	B. Sc. III	Student
4	Miss. Pawar Akshata Madhukar	B. Sc. III	Student

Thank you,  
Your's faithfully

  
Acting Principal

Padmabhushan Vasanttraodada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



## About Guest

### Session I (1.00 pm to 2.00 pm)

**Mr. S. V. Rajguru** (Assi. Prof.), Department of Statistics.  
Shivaji University Kolhapur

### **Topic: Analysis of Non-Normal Data.**

Mr. S. V. Rajguru is an Assi. Professor in the Department of Statistics at Shivaji University Kolhapur since 2013. Some of the important things about him are given here. He received his M.Sc. Degree from Shivaji University (2010-2012). He passed the graduation of Shivaji University in 2010. He passed NET (June 2013) and SET (February 2013) examination. He has worked as a junior research fellow in the Department of statistics in Shivaji University Kolhapur under Rajiv Gandhi National Fellowship. He attended number of seminars, conferences and workshops, short term training programs and presented Research Papers. He delivered many guest lecturers in the various colleges.



## Letter of Appreciation:-



**PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA**  
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405  
Acting Principal Prof. (Dr.) M.K.Patil M.Sc. M.Phil. Ph.D. Mob. 9405649190  
Phone- 02341-295220 Email : kmpvp@rediffmail.com Website : www.pvpkm.org  
Jr. College Index No. J 22.04.002

Ref No. PVPKM 2022-23/968

Date : 05/12/2022

To  
Mr. S. V. Rajguru  
Assistant Professor,  
Department of Statistics,  
Shivaji University, Kolhapur

**Subject:- Letter of Appreciation**

Respected Sir,

We express our gratitude towards you for your informative lecture on "Analysis of non-normal data" to our T.Y.B.Sc. (Statistics) students on 5<sup>th</sup> December 2022 (01:00 p.m.) in our college. We are grateful for providing your valuable time. All students of our college were enlightened with your lectures.

Thank you for sharing your expertise with our students.

Thanking you,

Yours faithfully,

Acting Principal  
Padmabhushan Vasanttraodada Patil  
Mahavidyalaya, K. Mahankal Dist. Sangli



**Glimpses :**



Mr. S.V. Rajguru guided the students of B.Sc. III (Statistics)





News in various newspapers:

## पी.व्ही.पी. महाविद्यालयात एमओयू अंतर्गत अतिथि व्याख्यान



महाविद्यालय आणि आदर्श महाविद्यालय विटा येथील संख्याशास्त्राचे तृतीय वर्षाचे विद्यार्थी उपस्थित होते. अतिथी व्याख्यानाचे प्रास्ताविक प्राचार्य डॉ. एम. के. पाटील यांनी तर आभार प्रा.विजय कोष्टी यांनी केले. सूत्रसंचालन प्रा.शीतल पाटील आणि प्रा. प्राजक्ता पाटील यांनी केले. व्याख्यानाचे नियोजन प्रा. गणेश सातपुते आणि प्रा. अभिलाष पाटील यांनी केले.

### । ललकार वृत्त ।

कवठेमहांकाळ दि. ९ (वार्ताहर) - येथील पद्मभूषण वसंतरावदादा पाटील महाविद्यालयातील संख्याशास्त्र विभागाचा आदर्श महाविद्यालय विटा येथील संख्याशास्त्र विभाग आणि शिवाजी विद्यापीठ संख्याशास्त्र शिक्षक संघटना (सुस्टा) यांच्यामध्ये सामंजस्य करार (एम.ओ.यु.) झाला आहे.

याअंतर्गत नुकतेच पी.व्ही.पी. महाविद्यालयात शिवाजी विद्यापीठ कोल्हापूरच्या संख्याशास्त्र विभागाचे सहायक प्राध्यापक आणि सुस्टा सदस्य एस. व्ही. राजगुरू यांचे कवठेमहांकाळ आणि विटा येथील बी. एस्सी.भाग तीनच्या विद्यार्थ्यांसाठी 'अनालिसिस ऑफ नॉननॉर्मल डेटा' या विषयावर अतिथी व्याख्यान आयोजित करण्यात आले

होते.

यावेळी बोलताना प्रा.राजगुरू यांनी संख्याशास्त्रामध्ये नेहमीच एखादे मॉडेल वापरण्यापूर्वी काही गृहितके मांडावी लागतात. संबंधीत गृहितकांच्या सत्यतेवर-असत्यतेवर मॉडेलचे यशापयश अवलंबून असते. अनुमान काढणेसाठी किंवा तुलना करणेसाठी जी माहिती गोळा केली जाते ती प्रसामान्य संभाव्यता वितरणाचे अनुकरण करते, असे बहुतांशी गृहीत धरले जाते.

तथापि नेहमीच हे गृहीतक सत्यात उतरत नाही, अशा प्रसंगी माहितीचे विश्लेषण करताना तिचे वेगवेगळ्या पद्धतीने रूपांतर करून विश्लेषण करावे लागते. असे सांगून 'क्रुस्कल-वाली कसोटी' सह इतर पद्धतींचे सविस्तर आणि सोदाहरण स्पष्टीकरण केले. यावेळी पी.व्ही.पी.



## पी.व्ही.पी. महाविद्यालयात एमओयू अंतर्गत अतिथि व्याख्यान



कवठेमहांकाळ : प्रतिनिधी

(दि. ९) येथील पद्मभूषण वसंतरावदादा पाटील महाविद्यालयातील संख्याशास्त्र विभागाचा आदर्श महाविद्यालय विटा येथील संख्याशास्त्र विभाग आणि शिवाजी विद्यापीठ संख्याशास्त्र शिक्षक संघटना (सुस्टा) यांच्यामध्ये सामंजस्य करार (एम.ओ.यु.) झाला आहे. याअंतर्गत नुकतेच पी.व्ही.पी. महाविद्यालयात शिवाजी विद्यापीठ कोल्हापूरच्या संख्याशास्त्र विभागाचे सहायक प्राध्यापक आणि सुस्टा सदस्य एस. व्ही. राजगुरू यांचे कवठेमहांकाळ आणि विटा येथील बी. एस्सी. भाग तीन च्या विद्यार्थ्यांसाठी 'अनालिसिस ऑफ नॉननॉर्मल डेटा' या विषयावर अतिथि व्याख्यान आयोजित करण्यात आले होते. यावेळी बोलताना प्रा. राजगुरू यांनी 'संख्याशास्त्रामध्ये नेहमीच एखादे मॉडेल वापरण्यापूर्वी काही गृहितके मांडावी लागतात. संबंधीत गृहितकांच्या सत्यतेवर-असत्यतेवर मॉडेलचे यशापयश अवलंबून असते. अनुमान काढणेसाठी किंवा तुलना करणेसाठी जी माहिती गोळा केली जाते ती प्रसामान्य संभाव्यता वितरणाचे अनुकरण करते, असे बहुतांशी गृहीत धरले जाते. तथापि, नेहमीच हे गृहीतक सत्यात उतरत नाही. अशा प्रसंगी माहितीचे विश्लेषण करताना तिचे वेगवेगळ्या पद्धतीने रूपांतर करून विश्लेषण करावे लागते' असे सांगून 'क्रुस्कल-वाली कसोटी' सह इतर पद्धतींचे सविस्तर आणि सोदाहरण स्पष्टीकरण केले. यावेळी पी.व्ही.पी. महाविद्यालय आणि आदर्श महाविद्यालय विटा येथील संख्याशास्त्राचे तृतीय वर्षाचे विद्यार्थी उपस्थित होते. अतिथि व्याख्यानाचे प्रास्ताविक प्राचार्य डॉ. एम. के. पाटील यांनी तर आभारप्रदर्शन प्रा. विजय कोष्टी यांनी केले. सूत्रसंचालन प्रा. शीतल पाटील आणि प्रा. प्राजक्ता पाटील यांनी केले. व्याख्यानाचे नियोजन प्रा. गणेश सातपुते आणि प्रा. अभिलाष पाटील यांनी केले.