

MEMORANDUM OF UNDERSTANDING

(MOU)

Between

Rayat Shikshan Sanstha's

**Mahatma Phule Arts, Science and
Commerce College, Panvel.**

District- Raigad

And

Rayat Shikshan Sanstha's

**Arts, Science and Commerce
College, Mokhada.**

District- Palghar

MEMORANDUM OF UNDERSTANDING

This memorandum of understanding made and entered into at New Panvel on 5th July 2021, between Department of Mathematics, **Mahatma Phule Arts, Science and Commerce College, Panvel** and Department of Mathematics, Arts, Science and Commerce College, **Mokhada**.

It has been agreed that:

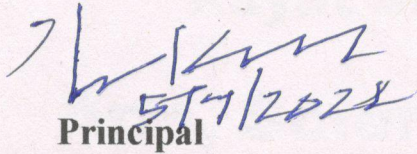
- a) The purpose of this Memorandum of understanding is to conduct Faculty Exchange Programme.
- b) To organize Expert Lectures for students.
- c) To organize Student Exchange Programme.

Coordination and Contact points -

The Head, Department of Mathematics, Mahatma Phule Arts, Science and Commerce College, Panvel and Head, Department of Mathematics, Arts, Science and Commerce College, Mokhada shall coordinate all the activities with permission of Principal of both institutes referred in the MoU with prior intimation and provide necessary Support.

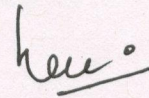
Period of Validity:

This agreement shall be initially valid for five years i.e. 5th July 2021 to 4th July 2026 and to be renewed subsequently by mutual consent of both the parties.


Principal

**Mahatma Phule A.S.C. College,
Panvel, Dist. Raigad**





Principal
**A.S.C. College, Mokhada,
Dist. Palghar.**





Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada Dist. Palghar 401 604

Accredited with the 'B' grade by NAAC
Affiliated to Mumbai University, Mumbai

Department of Mathematics

Report of Guest Lecture

Date : 16/12/2021

As mentioned in the new guidelines of NAAC, for the career & overall development of students, several activities must be organized. Guest Lecture is one of the important activities for the students & respectively department point of view. The department of Mathematics took initiative to schedule & organized Guest Lecture to get valuable information & enhance knowledge of the college students on 16/12/2021.

For this Programme, the department had invited Prof. Vaibhav Jagzap from Rayat Shikshan Sanstha's, Mahatma Phule Arts, Science & Commerce College, Panvel to deliver a lecture. The said Programme was conducted in Online mode (Zoom Platform) from 11:30 am. There were 20 participants for this Programme. Prof. Vaibhav Jagzap had given very informative lecture on the topic 'Linear Transformation' with related definition, theorems & examples.

After completion of lecture of Prof. Vaibhav Jagzap sir, Prof. Prashant Patil proposed vote of thanks in regards with Speaker, Principal of the college and Head of the department.

Thus, Programme under MoU between Rayat Shikshan Sanstha's, Mahatma Phule Arts, Science & Commerce College, Panvel & Rayat Shikshan Sanstha's, Arts, Science & Commerce College, Mokhada was successfully completed at 12:30 pm.

Head of the department
Department of Mathematics / गणित विभाग



Principal
Arts, Science & Com. College
A. S. C. College, Mokhada



Rayat Shikshahan Sanstha's
Arts, Science and Commerce College, Mokhada Dist. Palghar 401 604

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Department of Mathematics

Notice

Date: 15/12/2021

All the F.Y./S.Y./T.Y.B.Sc. Mathematics students are hereby informed that, the department of Mathematics has arranged Guest lecture for the enhancement of knowledge in their academics, under the MoU between MPASC College, Panvel & ASC College, Mokhada. The Guest lecture is in online mode (Zoom platform). The said Guest lecture is scheduled on 16/12/2021 at 11:30 am.

Head of Department
विभागाध्यक्ष
Department of Mathematics / गणित विभाग



Principal
Arts, Science & Commerce College, Mokhada
Mokhada, Dist. Palghar



ARTS, SCIENCE & COMMERCE COLLEGE, MOKHADA.

Estd. : June - 1984

(Higher Secondary Vocational Course - J. 18. 02. 901)

NAAC Accredited - 'B' Grade

Founder - Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Lit.)

Principal

Dr. L. D. Bhor
M.Com., B.Ed., Ph.D.

Ref. No. : 474 A 2021-22

Date : 15/12/2021

Invitation Letter

To,
Mr. Vaibhav B. Jagzap,
Assistant Professor, Head,
Dept. of Mathematics,
Mahatma Phule Arts, Science & Commerce College,
Panvel, Dist. Raigad

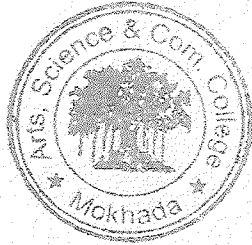
Subject: Invitation for the Online Guest Lecture on the topic "Linear Transformation"
under MoU.

Respected Sir,

With reference to above mentioned subject, we are glad to inform you that Department of Mathematics of our college has organized a Guest Lecture under MoU on the topic "Linear Transformation" on 16th December, 2021 at 11:30 am for our F.Y.B.Sc., S.Y.B.Sc. & T.Y.B.Sc. Mathematics students to expand the scope of learning experience, as per revised guidelines of NAAC.

You are cordially invited for the proposed Guest Lecture as subject expert. Kindly accept our invitation and guide our students with your subject expertise.

Thanking you.



Yours Faithfully,


Principal

Arts, Science & Commerce College, Mokhada
Mokhada, Dist. Raigad

Copy to:

- 1) Head, Department of Mathematics (ASC College, Mokhada),
- 2) Mr. Jagzap Vaibhav B., Head of Department of Mathematics (MPASC College, Panvel).



ARTS, SCIENCE & COMMERCE COLLEGE, MOKHADA.

Estd. : June - 1984

(Higher Secondary Vocational Course - J. 18. 02. 901)

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Founder - Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt.)

Principal

Dr. L. D. Bhor
M.Com., B.Ed., Ph.D.

Ref. No. : 482A 2021-22

Date : 17/12/2021

Appreciation Letter

To,
Mr. Vaibhav B. Jagzap,
Assistant Professor, Head,
Dept. of Mathematics,
Mahatma Phule Arts, Science & Commerce College,
Panvel, Dist. Raigad

Subject: Letter of appreciation for the Online Guest Lecture on the topic "Linear Transformation" under MoU.

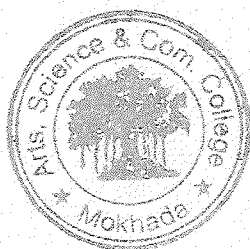
Ref.: Your Letter No. 474A/2021-22 dated 17/12/2021

Respected Sir,

With reference to subject mentioned above, We would like to thank you for sparing your valuable time and sharing your valuable knowledge with our students to enlighten them about subject by deputing expert lecture on "Linear Transformation" under the MoU between us and on occasion of Mathematics Day on 16th December 2021.

Your topic & presentation was very knowledgeable & informative. Students liked your lecture and have given a positive feedback. We hope, in future you will share and guide our students with your valuable expertise.

Thank you and best regards.



Yours Faithfully,

Principal

Arts, Science & Commerce College, Mokhada
Mokhada, Dist. Palghar

Copy to:

- 1) Head, Department of Mathematics (ASC College, Mokhada),
- 2) Mr. Jagzap Vaibhav B., Head of Department of Mathematics (MPASC College, Panvel).



Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada Dist. Palghar 401 604
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Department of Mathematics
Attendance of Guest Lecture

Date: 16/12/2021

Participants (20)

- AR Ashwini Rajendra patil
- DJ Dhresh Jadhav
- HM Hitesh M. Patil
- J Jayesh
- JP Jayesh Padir
- KB Kiran Bhavari
- MB Manoj burange
- PB Prakash Bhasme
- RL Rajendra lachke
- SS Sohel Shaikh
- VK Vijay Korde
- VW Vrushabh Wagh
- YP Yogesh padavi

OneNote for Windows 10

Check: Is L onto ℓ

check: $\forall w \in \mathbb{R}^2$ (co-domain)
 $\exists v \in \mathbb{R}^2$ (domain) such that
 $L(v) = w$

\mathbb{R}^2 (co-domain) & $v \in \mathbb{R}^2$ (domain)

$v = (v_1, v_2)$

have $L(x, y) = (x+y, x-y)$

$(v_1, v_2) = (v_1+v_2, v_1-v_2)$

check :- $L(v) = w$

Zoom Meeting

Participants (20)

- PP Prashant Patil (Host, me)
- VJ Valohav Jagzap
- AH Aditya harpale
- AB Akash Bagul
- Arun Dhondga
- AR Ashwini Rajendra patil
- DJ Dhresh Jadhav
- HM Hitesh M. Patil
- J Jayesh
- JP Jayesh Padir
- KB Kiran Bhavari
- MB Manoj burange
- PB Prakash Bhasme
- PP Prashant Patil

OneNote for Windows 10

Adding eq (1) & (2)

$$2v_1 = 0 \Rightarrow v_1 = 0$$

Put $v_1 = 0$ in eq (1)

$$v_1 + v_2 = 0 \Rightarrow 0 + v_2 = 0 \Rightarrow v_2 = 0$$

we get $v_1 = 0$ & $v_2 = 0$
 $(v_1, v_2) = (0, 0)$

$\text{Ker } L = \{(0, 0)\}$

(If $v = \{0\}$ then)

