



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 Teacher Exchange Programme

Date: 27/02/2021


As per the new guidelines given by NAAC, for the career, overall development & betterment of students, several activities must be organized by college. Teacher Exchange Programme is one of the very important activities for the students & respectively department point of view. The department of Mathematics took initiative to schedule & organized Teacher Exchange Programme to share, exchange & enhance knowledge of the college students on 27/02/2021.

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 3:00 pm. There were 7 participants for this Programme. Prof. Vaibhav Jagzap had given very informative lecture on the topic 'Limits & Continuity of function' with related 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 was successfully completed at 4:00 pm.

Department of Mathematics
Arts Science and Commerce College,
Mokhada, Dist. Palghar




Head of the department
HEAD / गणित विभाग
Department of Mathematics / गणित विभाग



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.Litt.)

Principal
Dr. J. G. Jadhav
(M.A., M.Phil., Ph.D.)

Ref. No. : 43/2020-21

Date : 22/02/2021

Invitation Letter

To,
The Principal,
Mahatma Phule Arts, Science & Commerce College,
Panvel, Dist. Raigad

Subject : Online Faculty Exchange Programme of the department of Mathematics on
27.02.2021

Respected Sir/Madam,

With reference to above mentioned subject, I want to state that to expand the scope of learning experience to students, to get more realistic perspective and to update the academic, as per revised guidelines of NAAC, collaboration are expected with various academic institutions.

We are interested to arrange a collaborative activity of Faculty Exchange for exchanging Resources of both institutions and vice-versa on 27.02.2021. In this regard Mr. Patil Prashant Kesarinath will participate in Online Faculty Exchange programme as a resource person from our college. Kindly depute Mr. Jagzap Vaibhav Bharat of your college as a resource person for the same.

Thanking you.

Yours Faithfully,



[Signature]
Principal
Arts, Science & Commerce College, Mokhada
Dist. Palghar

OIC
Received
[Signature]

Department of Mathematics
Arts Science and Commerce College,
Mokhada, Dist. Palghar



Rayat Shikshan Sanstha's

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.Litt.)

Principal
Dr. J. G. Jadhav
(M.A., M.Phil., Ph.D.)

Ref. No. : 458/2020-21

Date : 8/3/2021

Appreciation Letter

To,
The Principal,
Mahatma Phule Arts, Science & Commerce College,
Panvel, Dist. Raigad

Subject : Letter of appreciation for Online Faculty Exchange Programme of the department of Mathematics on 27.02.2021

Ref.: Your Letter No. 432^अ/2020-21 dated 22/02/2021

Respected Sir,

With reference to subject mentioned above, I would like to thank you for deputing Mr. Jagzap Vaibhav Bharat as a Resource Person under the collaborative Faculty Exchange Programme Scheme to our institution on 27th February 2021.

He delivered an excellent informative and knowledgeable lecture on "Continuous function" to our F. Y. B. Sc students. Our students liked his lecture and have given a positive feedbacks. His lecture will help our students to clear basic concepts of "Continuous functions".

Thank you and best regards.

Yours Faithfully,

DMK

Principal

Arts, Science & Commerce College, Mokhada
Dist. Palghar

Copy to:

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

Department of Mathematics
Arts Science and Commerce College,
Mokhada, Dist. Palghar



Jayesh

Eshvar moule

D

Dadasaheb A...

View

Participi

pp Prashant Patil (Ho

V Vaibhav Jagzap

D Dadasaheb Arekan

EM Eshvar moule

J Jayesh

VK Vijay korde

YP Yogesh Padavi

Example 1) Prove that every polynomial is a continuous function at every point of real number line.

Solution: Let $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$

Where $a_0, a_1, \dots, a_n \in \mathbb{R}, a_n \neq 0, n \in \mathbb{N}$ be a polynomial of degree n . Let 'p' $\in \mathbb{R}$ be arbitrary point.

$$\begin{aligned} \lim_{x \rightarrow p} f(x) &= \lim_{x \rightarrow p} a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0 \\ &= a_n p^n + a_{n-1} p^{n-1} + \dots + a_1 p + a_0 \\ f(p) &= a_n p^n + a_{n-1} p^{n-1} + \dots + a_1 p + a_0 \end{aligned}$$

1) Here $\lim_{x \rightarrow p} f(x)$ exists

2) $f(p)$ exists

3) $\lim_{x \rightarrow p} f(x) = f(p)$

Therefore 'f' is continuous at $x = p$ and 'p' is any arbitrary point.

'f' is continuous on \mathbb{R}
Hence every polynomial is a continuous function at every point of real number line.

Department of Mathematics
Arts Science and Commerce College,
Mokhada, Dist. Palghar

