SR&BGNR GOVT. DEGREE COLLEGE:: KHAMMAM
DEPARTMENT OF MATHEMATICS
NATIONAL WEBINAR

Date: 23.11.2020

Topic: Concepts of Real Analysis

No. of Registrations: 707

No. of participants: 300

Online Registrations link:

https://docs.google.com/spreadsheets/d/1_fPHDi6hqlmNxnG74GolRS57TCukTqoAdgk9uxAgl38/edit?usp=sharing

Feed back link: https://docs.google.com/spreadsheets/d/1zcwrZHwhhH28Ps-wBeUsPCZiu8ui2lbsIQywdUYr7DY/edit?usp=sharing

Registration for National Webinar

Questions   Responses   707

Registration for National Webinar on "Concepts of Real Analysis"

Dept. of Mathematics:SRBGNR Arts & Science College Khammam

Email address *

Valid email address

This form is collecting email addresses. Change settings

S.R&B.G.N.R GOVT.ARTS AND SCIENCE COLLEGE (A)
KHAMMAM, TELANGANA
ONE DAY NATIONAL WEBINAR
ON
"CONCEPTS OF REAL ANALYSIS"
ON 23rd NOVEMBER 2020

PROGRAM SCHEDULE

TIME	SCHEDULE
9.45AM	**LOGGING INTO WEBINER USING ZOOM**
INAGURAL SESSION 10.00 AM – 10.15 AM	**INVITIING GUESTS AND SPEAKERS** By Smt.Surisetti Anjani, IQAC Co-ordinator **WELCOME ADDRESS** By Sri.V.Sambasiva Rao, HOD & Webinar Convener **OPENING REMARKS** By Sri K.S.S. Ratna Prasad, Principal & Chairperson
TECHNICAL SESSION- I 10.15 AM -11.25AM	**INTRODUCING THE SPEAKER** By Smt.K.Jyothirmai Rani. Topic: Continuity and Uniform continuity of Functions Speaker:**Dr.L.P. Rajkumar, Head of the Department**, Department of Mathematics, Kakatiya University, Warangal.
11.25 AM - 11.30 AM	Questions & Answers
TECHNICAL SESSION- II 11.30 AM- 12.40 PM	**INTRODUCING THE SPEAKER** By Smt.P.Anuradha Topic: Differentiation and Mean Value Theorems Speaker: **Dr.R.Bharvavi Sharma, Assistant Professor,** Department Mathematics, Kakatiya University, Warangal
12.40 – 12.45 PM	Question & Answers
12.45 PM	**CLOSING REMARKS / VOTE OF THANKS** By Sri.Kankipati Srinivas

Example 5.

Using Chain rule find the derivative of the function $(\cos x + e^x)^{12}$

Solution.

The given function is $h(x) = (\cos x + e^x)^{12} \; \forall x \in R$

Define two functions f and g as

$f(x) = \cos x + e^x; \; g(x) = x^{12} \; \forall x \in R.$

Consider

$gof(x) = g[f(x)] \; \forall x \in R$

$\qquad = g[\cos x + e^x] = (\cos x + e^x)^{12}$

$\qquad = h(x) \; \forall x \in R$

$\therefore \; h(x) = (gof)(x) \; \forall x \in R$

Here as f and g are polynomial functions they are always differentiable and so is gof.

Here $f'(x) = e^x - \sin x; \; g'(x) = 12x^{11}$

By Chain rule,

$h'(x) = (gof)'(x) = g'(f(x)) \cdot f'(x)$

$= g'(\cos x + e^x) \cdot (e^x - \sin x)$

$h'(x) = 12(\cos x + e^x)^{11} \cdot (e^x - \sin x)$

DR R BHARAVI SHARMA , KAKATIYA UNIVERSITY,WARANGA

sharma rayaprolu's screen

Definition in terms of limits of sequences
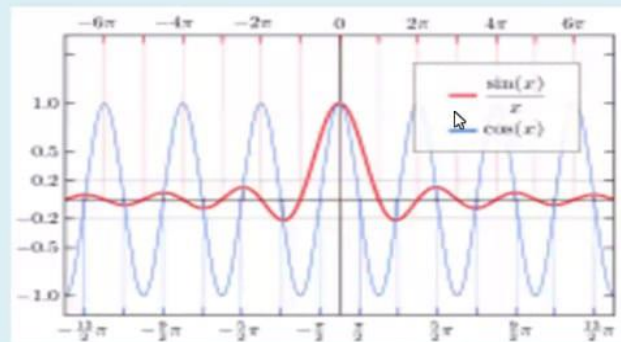
Dr. L.P.Rajkumar's screen
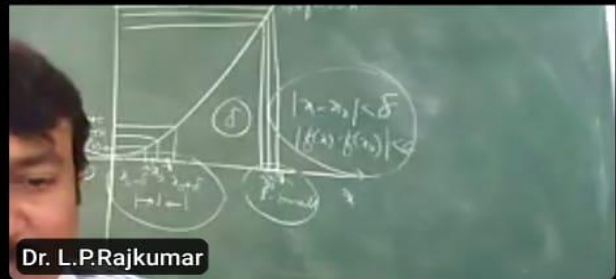
Srinivas Kankipati

Dr. L.P.Rajkumar

From MARRELA. SAI JASHWANTH (2620-4307) to Everyone
no doubt sir TQ very much sir

From K SRIMANNARAYANA to Everyone
tq sir
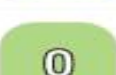
Anjani Surisetti

P. Anuradha

Search

S Srinivas Kankipati (me)

GOVERNMENT De... (Host)

DL Dr. L.P.Rajkumar (Co-host)

AS Anjani Surisetti (Co-host)

ratnaprasad... (Co-host) **1**

SR Sambasiva Rao... (Co-host)

ੴ੶ੴ୕୕ VIVEK ੴ੶ੴ

(2620-4205) Archana

(V) (4213)B. venkataramana

0 076204030(P.Akhila)mccs

1K 1 K Ravinder Reddy

1 19044012468035

1 19044012468036

Invite

SR&BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A) : KHAMMAM
TELANGANA STATE : INDIA
ACCREDITED WITH "B++ Grade" BY NAAC
AN ISO 9001:2015 CERTIFIED INSTITUTION

AMZJWQ-CE000816

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs/Ms/Dr **Dr.G.KATHYAYANI** , **Associate professor** of **YOGI VEMANA UNIVERSITY, KADAPA** has participated in National Webinar on " **CONCEPTS OF REAL ANALYSIS** " organised by the Department of Mathematics on 23/11/2020.

V.SAMBASIVA RAO
CONVENER

K.SRINIVAS
CO-ORDINATOR

K.S.S.RATNA PRASAD
PRINCIPAL(FAC)