"Education for Knowledge, Science and Culture"
-Shiksahnmaharshi Dr. Bapuji Salunkhe

VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)
INTERNAL QUALITY ASSURANCE CELL
2020-21

Quality Initiatives/ Activities Report

1. **Name of Department**: ELECTRONICS,

2. **Name of Organized Activity**: Webinar on "Fuzzy Logic for Basic Research in Electronics, Mathematics and Statistics"

3. **Date/ Duration**: Thursday 29/12/2020 at 11:00 am to 01:30 pm

4. **Aims and Objectives**:
   1. To get fundamental knowledge about of Fuzzy Logic.
   2. To get knowledge about how to use Fuzzy Logic in research area.

5. **No. of beneficiaries**: There are more than 75 students and teaching staff participates in webinar

6. **Expenditure & funding agency**:/collaborators: Funding amount 1000/- which was provided by The Vivekanand Collage, Kolhapur (Autonomous).

7. **Brief description**: Department of Electronics, Mathematics & Statistics Vivekanand College, Kolhapur had organized a Webinar for the B.Sc. I, II and III students and faculty members of Electronics, Mathematics and Statistics on 29/12/2020 at 11.30 AM. The primary goal of the activity was *1) Introduction of Fuzzy Logic for Basic Study in Electronics, Mathematics and Statistics 2) To know its applications and 3) To enhance research area.* The chief guest of the program was Prof. Dr. R.R. Kumbhar, Principal Vivekanand College, Kolhapur inaugurated the webinar. Resource Person of the webinar was Prof. Dr. R.R. Mudholkar (Former Prof. Dept. of Electronics, Shivaji University, Kolhapur.) Dr. Mudholkar expressed concept of fuzzy logic in very simple way. He explained fuzzy set theory and mapping. In Electronics Fuzzy logic is used in control systems due to smooth and robust control action. It is used in Every Electronic Appliances
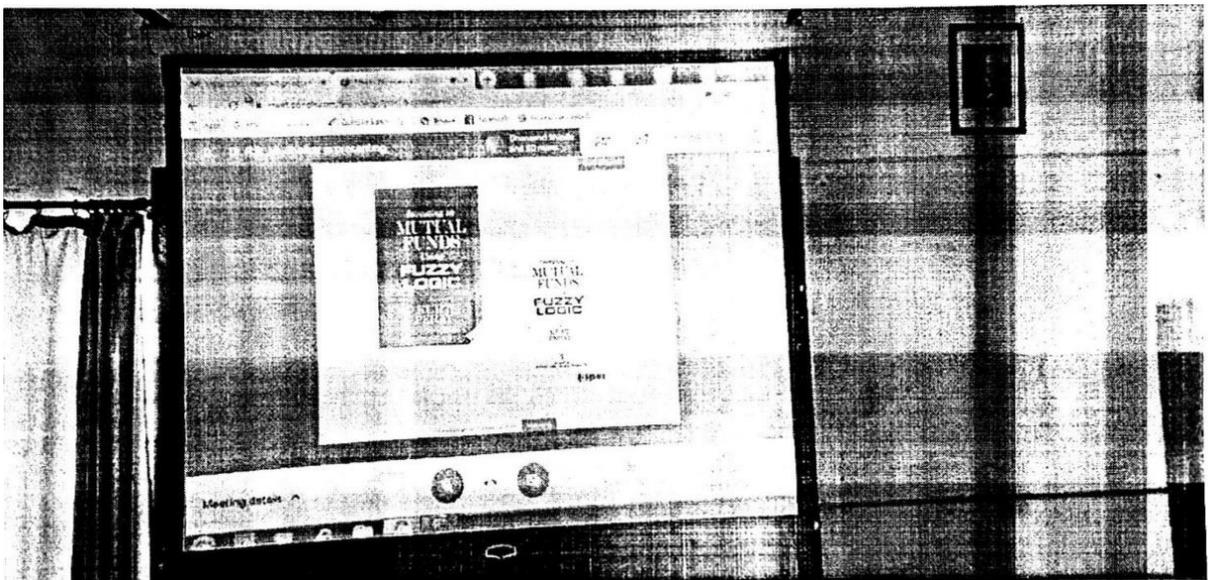
for example washing Machine, cooling systems etc. By the use of little mathematics and fuzzy logic we can, solve various problems in real life. He also explained resemblance of probability and fuzzy logic. Fuzzy logic is also used in the data analysis. He also stated applications fuzzy logic in chemistry botany etc. Mr. D.M. Panhalkar Welcome and introduced the Guest and Resource Person. Mr. P.R. Bagade proposed vote of thanks. Mr. S.P. Patankar, Ms. V.V. Pawar and Miss M.B, Lohar handle, webinar technical support for Google meet software. Mr. S.T. Sutar, Mr. N. P. Mote, Mr. M.S. Patil, Mrs. P.S. Jadhav, were participated and helped in the conduction of online webinar.
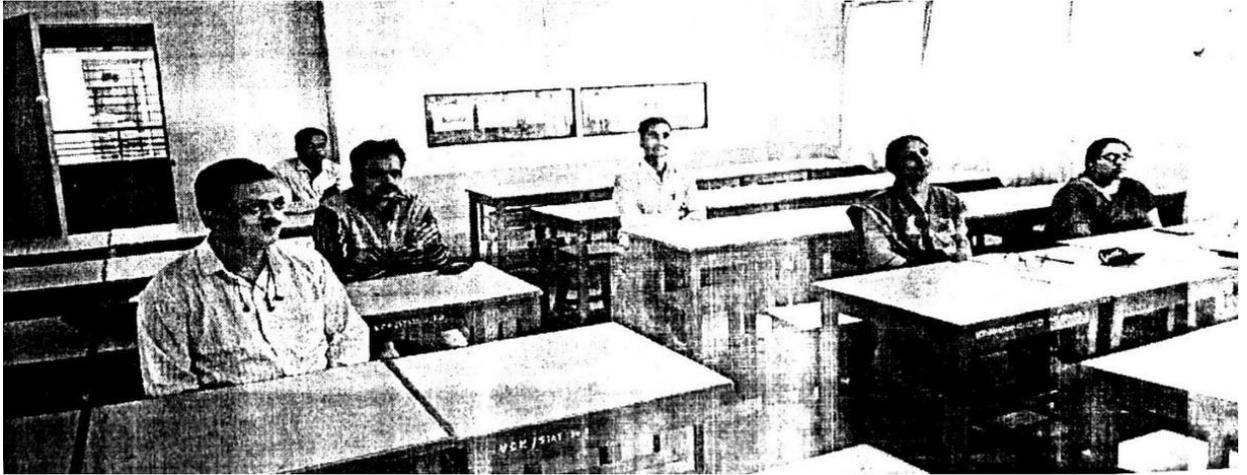
8. **Outcomes**:
   1. By the use of little mathematics and fuzzy logic we are able to solve various problems in real life
   2. Students and teachers got knowledge about soft computing technique like Fuzzy Logic and its applications in field of research.

9. **Photos**:

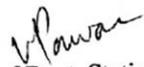*Online speech by Prof. R. R. Mudholkar, Shivaji University, Kolhapur*

Participants watching online

10. Signatures of coordinator/ organizer:

Head of Dept. Electronics
Head
Department of Electronics
Vivekanand College, Kolhapur.

Head of Dept. Mathematics
HEAD
Department of Mathematics
Vivekanand College, Kolhapur

Head of Dept. Statistics
for Head
Department of Statistics
Vivekanand College Kolhapur

Date: 22/12/2020

To,

The Principal,

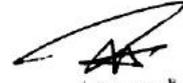Vivekanand College, Kolhapur (Autonomous)

Sub: Permission to organize webinar on "Fuzzy logic for basic research in Electronics, Statistics and Mathematics"

Respected Sir,

Department of Electronics, Statistics and Mathematics have organized webinar on "Fuzzy logic for basic research in Electronics, Statistics and Mathematics" by Prof. Dr R.R. Mudholkar Former professor Dept of Electronics, Shivaji University Kolhapur on Tuesday, 29th December 2020. So please give the permission for the same.
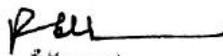
Thanking You,

Yours Faithfully

Head
Department of Electronics
Vivekanand College, Kolhapur

Allowed
P2
22/12/20

Head
Department of Statistics
Vivekanand College, Kolhapur

Ƨr **HEAD**
Department of Mathematics
Vivekanand College, Kolhapur

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

A webinar on
"Fuzzy logic for Basic Research in Electronics, Mathematics & Statistics"

Resource person: Prof. Dr. R. R. Mudholkar
Former Professor Department of Electronics
Shivaji University, Kolhapur

Organized by
Department of Electronics, Mathematics & Statistics

Invitees:
Dr. R. R. Kumbhar
Principal,
Vivekanand College,
Kolhapur (Autonomus)

Coordinators:
Mr. D. M. Panhalkar
Mr. P. R. Bagade

Organizing Committee:
Mr. S. P. Patankar
Ms. V. V. Pawar
Mr. S.T. Sutar

Mr. N. P. Mote
Mr. M. S. Patil
Mrs. P. S. Jadhav

Registration link: https://forms.gle/sDCGsMCmmb91HPHr8

Google meet link: https://meet.google.com/fpy-xcie-ijk

Date : Tuesday, 29/12/2020
Time : 11.30 AM- 1.00 PM