**Report of the National Webinar**

 Due to Covid-19 the whole world is literally stopped. It has also affected the education sector largely. Therefore, online teaching has been anticipated. Surely on line teaching has certain limitations. It is difficult to explain complex concepts in Mathematics to students through on line mode. So we felt the need to explain those concepts with the help of mathematical softwares. As a result, the idea of organizing a national webinar came up and Department of Mathematics decided to organize a national webinar

 I.Q.A.C. of the college and the Department of Mathematics, organized the National Webinar on **“Use of Softwares in Effective Scientific Teaching”** on**19th July 2021.**

 **Dr. Sudhir Tambe**, Member of Legislative Council (Maharashtra State), Chairman, S.B.V.P. Samaj Sanstha, Sangamner inaugurated the webinar by his inspiring words and greeted the webinar.

 **Dr. Milind Sakalkale** (Program Coordinator and Head, Department of Mathematics) introduced the webinar. In the Introductory Speech, he stated the aims, objectives and purpose of organizing the webinar.

**Principal Dr. Dinanath Patil,** welcomed the dignitaries and the participants.

In welcome address, he highlighted the importance of the mathematical softwares and emphasized on the organization of such programs in the higher education for wellbeing of students.

**The Resource Persons of the National Webinar**

**1.Dr. Parul Saxena**

Assistant Professor and Head, Department of Computer Science

Soban Singh Jeena University Almora, Uttarakhand

**2.Mr. Ashok Lagad**

Associate Professor and Head

Ahmednagar College, Ahmednagar.

In 1st Session, **Dr. Parul Saxena**, gave lecture on the topic **“Introduction to MATLAB”.**

 In her speech she introduced the participant teachers and students with **MATLAB** software. She illustrated how **MATLAB** is useful to solve Mathematical problems resulting in the reduction of time. She made the participants well acquainted with the applications of **MATLAB** in industry for signal processing, image processing, financial analysis etc.

.**Mrs. Anuja Abhale** proposed vote of thanks to the resource person.

In the 2nd Session, Mr**. Ashok Lagad**, delivered speech on **“LaTex”.**

 In his lecture he focused on easy operational method of the LaTex software and applications of it. He explained following salient features of LaTex:

* Typesetting journal articles, technical reports, books, and slide presentations
* Control over large documents containing sectioning, cross-references, tables and figures.
* Typesetting of complex mathematical formulae, advanced typesetting of mathematics with AMS-LaTeX

Both the sessions were concluded with Questions and Answers.

The program Convener, **Mr. Satish Kadlag,** proposed vote of thanks to the resource person.

**Dr. Milind Sakalkale** extended gratitude towards the dignitaries and all participants.

Participants were requested to fill the feedback forms.

 In all 144 Teachers and 230 Students were benefitted in the Webinar.

**Out Comes of the Webinar**

1. Students learned features of **MATLAB** as a programming tool. They were familiarized to all the features of **MATLAB** software and can easily handle the software.
2. New teaching model which include theory and practical running simultaneously is introduced to our students. This method is very effective and helps to develop programming skills and technique to solve mathematical problems.
3. Students learned graphic features of **MATLAB** and they are now able to use this feature effectively in the various applications.
4. Students are able to use **MATLAB** as a simulation tool.
5. Major outcome is students are capable to work as a ‘**MATLAB** programmer’ in the industry.
6. As participants learnt various techniques of the **MATLAB** and **LaTex**, a mathematical approach has developed among the participants.
7. The participants get well acquainted with the skills of recent mathematical softwares.