



**Shiv Chhatrapati Shikshan Sanstha's  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur  
Department of Mathematics**

**A) A SUMMARY REPORT**

1) Title of Programme:		National Webinar on <b>Application of Planar Geometry in CAD CAM Industry</b>		
2) Name of Organizing Department/Unit:		Mathematics		
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:		Convener: Dr. Mahesh S Wavare		
4) Date(s) of the Programme:		28.09.2022		
5) Venue/Mode:		Online Microsoft Teams		
6) Target Group:		UG and PG (Mathematics)		
7) Number of Participants: 118		Male	Female	Total
A separate list with signatures be maintained in the department/Unit)	Teaching	18	04	22
	Students /Scholar/Industry Person	40	56	96
8) Name(s) and details of Resource Person(s), if any:		Mr. Siratam Ranmal ,Sungrace Infotech Ltd ,Pune		
9) Total Expenditure for the Programme:		1000/-		
10) Source of Funding:		RSML		

## **B) A Report**

**i. Title:** National webinar on topic “**Application of Planar Geometry in CAD CAM Industry**”

**ii. Introduction:**

CAD Software is Computer Aided Design Software which uses basic operations for vectors (sum, scalar product...) and routines for simple tasks like the intersection of a line and a circle. Planar geometry solves a common problem with all the current formats used for transferring data between CAD and CAM systems. CAD software exports NC files for CNC machines which is the specific format file for specific CNC machine and this file is full application of planar geometry. Such files can be created by programming knowledge and planar geometry knowledge. Whole mechanical and Civil engineering industry lie on such 3D CAD design software. People having good mathematical knowledge and programming knowledge can solve complex problems easily and increase productivity. Also Future opportunities in this sector will also be discussed.

**iii. Objectives of the Programme/ issues addressed**

- To get aware the knowledge of Computer Aided Design Software
- To study 3D Design using CAD and CAM.
- To know future opportunities in this sector
- To Study Planer Geometry Knowledge.

**iv. Details of Participants**

In this National webinar total 22 teaching Faculty Participants (18 Male +04 Female ) and Students/Research Scholar/Industry participants 96 (40Male and 56Female s) were registered and attended the webinar .

#### **v. Brief Summary of Events/ Sessions**

Department of Mathematics of Rajarshi Shahu Mahavidyalaya(Autonomous) has organized national webinar on **Application of Planar Geometry in CAD CAM Industry** on 28/09/2022. Dr. Mahesh Wavare ,Convener introduce about the webinar as well as Chief Guest of the webinar . Mr. Siratam Ranmal ,Sungrace Infotech Ltd , who was resource person for this event and speak about use of Mathematics in CAD CAM industry as well as future scope for students After the session is over Convener Dr Mahesh S Wavare conclude the program with vote of thanks

#### **vi. Conclusion, with Feedback on the Programme**

All participants were satisfied and got the knowledge about use of Mathematics in CAD/CAM industry and future scope in it.

#### **vii. Any Appendix if necessary: List of the participant**

Date: 29/09/2022

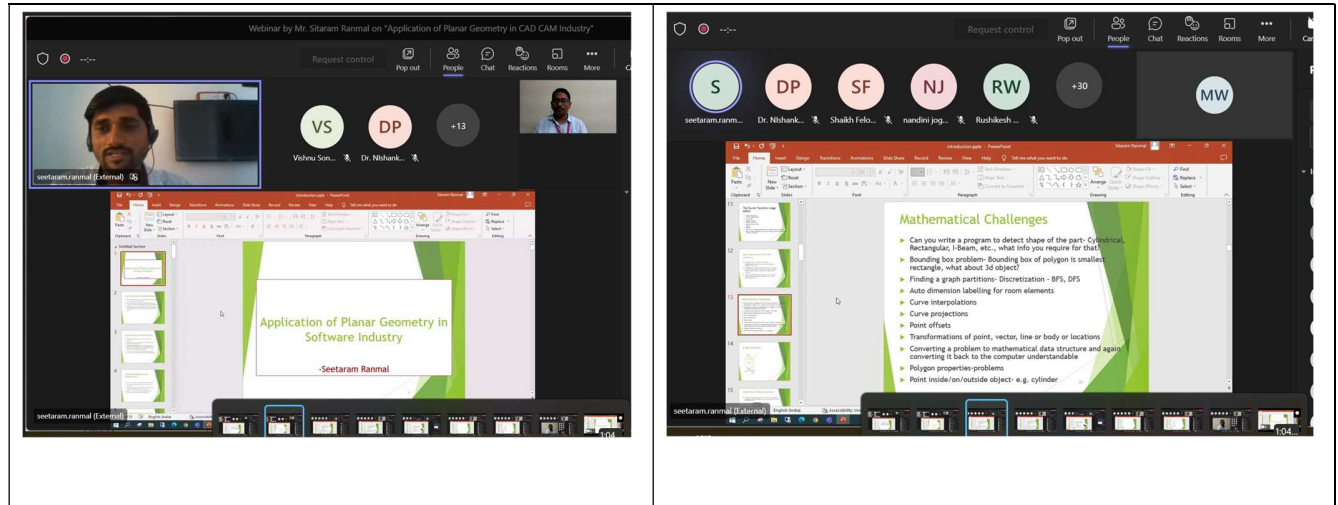
  
Convener/HoD

**Head,**  
Department of Mathematics,  
Rajarshi Shahu Mahavidyalaya,  
(Autonomous) Latur-413512

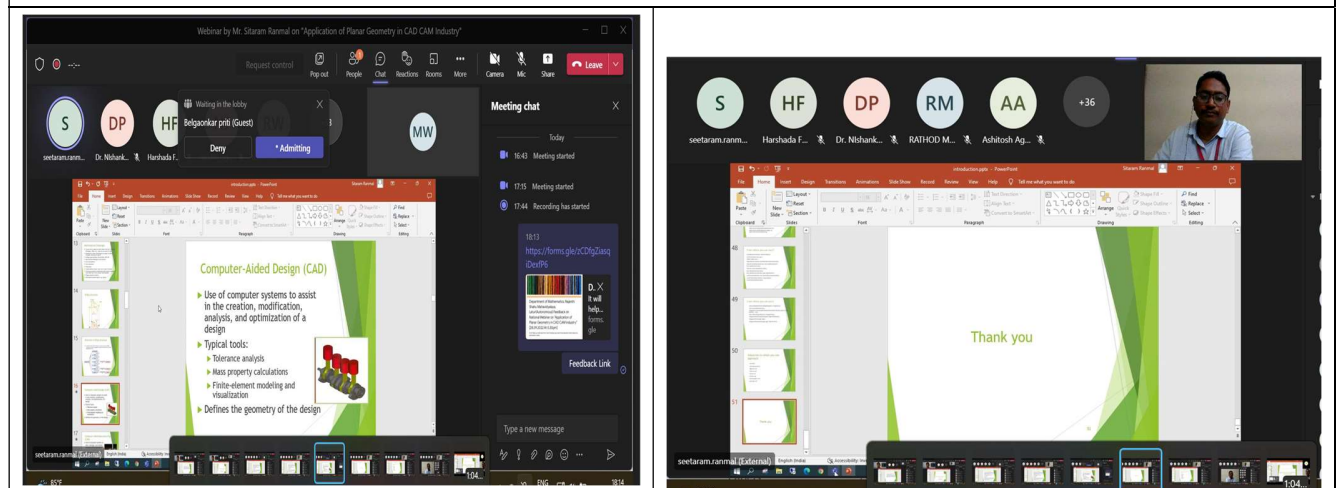


  
**Principal**  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

### C) Screenshots/Geotagged Photographs:



Dr. Mahesh S Wavare, HoD introducing about guest and program in front of participants



Mr. Siratam Ranmal ,Sungrace Infotech Ltd ,Pune while giving his talk during webinar

Dr. Mahesh Wavare during conclusion of the webinar

**D) Copies of Brochure Prepared for the Programme:**



**National Webinar on**  
**Application of Planar Geometry in CAD**  
**CAM Industry**

**Organized By**  
Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya**  
**(Autonomous), Latur**





Dr. Gopalrao Patil  
Chairman, SCSS, Latur

Dr. Mahadev Gavhane  
Principal

Prof. Sadashiv Shinde  
Vice Principal

**Organizer**  
Department of Mathematics  
**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**

Date: 28/09/2022  
Time: 05:30 pm

**About College**

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur is the only Autonomous college in Marathiwada Region. The college has taken the pivotal step of Autonomous Status in 2013. This institution was established in 1970, which bears the name of a true democrat, social reformer, educationist and the progressive king of Kolhapur Sansthan, Chhatrapati Rajarshi Shahu Maharaj. The motto of our institution is Pursuit of Excellence.

The college has UGC-CPE (Phase III) status and support under DST-FIST scheme. It has empowered us to introduce innovations in Academics and Research. The Autonomous status of the college has made the programs and courses more divergent and need satisfying. Under the new accreditation framework of NAAC, the college received B++ (CGPA 2.99) in 2018.

The fifty years history of our Sanstha was full of trials and tribulations. We have accepted the challenges and conquered the adversities to reach at the apex of success. We are always pragmatic, resourceful and creative on every front. Through tireless efforts and selfless service we have evolved a Shahu Pattern which is widely known as Latur Pattern of education.

(Principal)

**About the Webinar**

CAD Software is Computer Aided Design Software which uses basic operations for vectors (sum, scalar product...) and routines for simple tasks like the intersection of a line and a circle.

Planar geometry solves a common problem with all the current formats used for transferring data between CAD and CAM systems.

CAD software exports NC files to CNC machines which is the specific format file for specific CNC machine and this file is full application of plane geometry. Such files can be created by programming knowledge and planar geometry knowledge.

Whole mechanical and Civil engineering industry lie on such 3D CAD design software. People having good mathematical knowledge and programming knowledge can solve complex problems easily and increase productivity. Also Future opportunities in sector will also discuss.

Link to join the programme

↓

+ <https://teams.microsoft.com/join/19%3a356c2eda5c44889ab51b01e63dc88f%40thread.tacv2/1664173835843?context=%7b%221d%22%3a%22c37de1d974ff4c4b-9e97-c7d2680d34c%22%2c%220id%22%3a%223ac3d3df-c041->

**E) Link of Video of the programme:** <https://youtu.be/8zU-va2OcCY>

**F) Any other publicity material: Nil**

# **Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**

## **Department of Mathematics**

National webinar on topic **Application of Planar Geometry in CAD CAM Industry**

### **List of Participants**

<b>Sr No</b>	<b>Name Of Participants</b>	<b>Gender</b>	<b>Institute</b>	<b>Teacher /Student</b>
1	Saware Sonali Vilas	Female	Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	Students/Research Scholar
2	Mote Sneha Deepak	Female	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
3	Prof. Jitendra Gorakh Patil	Male	S.S.V.P.S. Arts, Commerce And Science College, Shindkheda Dist. Dhule	Teaching Faculty
4	Dadiredy Lakshmi Sravani	Female	Rajarshi Shahu Mahavidyalaya Autonomous Latur	Students/Research Scholar
5	Bhagyashri Jagannath Wagalgave	Female	Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	Students/Research Scholar
6	Mote Sakshi Laxman	Female	Rajarshi Shahu Mahavidyalaya Latur (Autonomous)	Students/Research Scholar
7	Sparshika Ram Metkar	Female	School Of Mathematical Science, SRTMU Nanded	Students/Research Scholar
8	Swapnil Shashikant Salvi	Male	DUBSSC	Teaching Faculty
9	Thorat Prakash Gajendra	Male	Srtm University Nanded	Students/Research Scholar
10	Shama Shaikh	Female	Srtmu Nanded	Students/Research Scholar
11	Baswante Sachin Digambar	Male	School Of Mathematics S. R. T. M. U. Nanded.	Students/Research Scholar
12	Kanwate Priyanka Pralhad	Female	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Students/Research Scholar
13	Fajge Tejaswini Prakash	Female	Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	Students/Research Scholar
14	Pranav Prakash Chiddarwar	Male	Science College Nanded	Students/Research Scholar
15	Gacche Kuldeepak Brahmaji	Male	Lal Bahadur Shastri Mahavidyalaya Dharmabad District Nanded	Teaching Faculty
16	Savithiri Peeraji Tukde	Female	School Of Mathematical Sciences, S. R. T. M. University Nanded	Students/Research Scholar
17	Vishnu Dev Vishwakarma	Male	Swami Ramanand Teerth Marahwadra University Nanded	Students/Research Scholar
18	Sopan Jagdevrao Chavhan	Male	Shri Vyankatesh College, Deulgaon Raja, Dist. Buldhana	Teaching Faculty
19	Bolegave Govind Mallikarjun	Male	Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	Students/Research Scholar

20	Bhosale Shivani Ganpati	Female	Rajarshi Shahu Mahavidyalaya(Autonomous)	Students/Research Scholar
21	Arjune Pradip Maroti	Male	School of Mathematical Sciences ,S R T M University ,Nanded	Students/Research Scholar
22	Mayur Mahadev Jawane	Male	School of Mathematical Sciences ,S R T M University ,Nanded	Students/Research Scholar
23	Ghuge Dipak Manik	Male	Rajarshi Shahu College Latur	Teaching Faculty
24	Devanand Sadashiv Kasbe	Male	Srtmun University Nanded	Students/Research Scholar
25	Maqbul Ahmad Abdul Aziz Barote	Male	Azad Mahavidyalaya AUSA	Teaching Faculty
26	Vaishnavi Sontakke	Female	Shri Vitthal Rukmini College Sawana	Students/Research Scholar
27	Rokade Kundan Yadav.	Male	Pvt .Ltd Lupin Pune	Students/Research Scholar
28	Pooja Babarao Nandewar	Female	Science College, Nanded	Students/Research Scholar
29	Mr Arvind Dnyanoba Karwate	Male	Shri Vyankatesh College Deulgaon Raja	Teaching Faculty
30	Rohini Jadhav	Female	Wadgaon Sheri	Students/Research Scholar
31	Shubham Santosh Dhabale	Male	S N More Science College Tumsar	Students/Research Scholar
32	Shaikh Sameer Pashamiya	Male	Rajarshi Shahu Mahavidyalaya (Autonomous); Latur	Students/Research Scholar
33	Dr. Sunil Narsing Bidarkar	Male	Shri Muktanand College Gangapur District Aurangabad (Ms)	Teaching Faculty
34	Shivkanya Dinkar Shinde	Female	Rajarshi Shahu Mahavidyalaya, Latur	Teaching Faculty
35	Mule Audumbar Kumar	Male	Mahatma Gandhi Mahavidyalaya Ahmedpur Dist Latur	Teaching Faculty
36	Pooja Gopichand Surwase	Female	School of Mathematical Sciences ,S R T M University ,Nanded	Students/Research Scholar
37	Sonvane Pooja Arvind	Female	Dayanand Science College, Latur	Students/Research Scholar
38	Shrimangale Amruta Balaji	Female	Rajarshi Shahu College Latur	Students/Research Scholar
39	Jawale Sunita Rudraji	Female	School Of Mathematics	Industry Expert
40	Suchita Madhavrao Manguikar	Female	G.S.G Collage Umarkhed	Students/Research Scholar
41	Shraddha Govind Mane	Female	Adarsh Senior College, Omega	Students/Research Scholar
42	Anjum Aara	Female	MSc Mathematics	Students/Research Scholar
43	Sharad Shamrao Kulkarni	Male	Adarsh Senior College, Omega	Teaching Faculty



44	Kalkumbe Raju Jambuvant	Male	Rajarshi Shahu Mahavidyalaya(Autonomous) Latur	Students/Research Scholar
45	Ganesh Raghunath Londhe	Male	Shreeyash Collage Of Engineering And Technology	Students/Research Scholar
46	Mule Pranit Prakash	Male	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Students/Research Scholar
47	Maya Vishvanath Jadhav	Female	Rajarshi Shahu Mahavidyalaya Latur	Teaching Faculty
48	Swati Chandrakant Mandade	Female	Gondwana University	Students/Research Scholar
49	Sandeep Kage	Male	Gondwana University, Gadchiroli	Teaching Faculty
50	Ku .Hema Rusheshwar Nandanwar	Female	Gondwana University Gadchiroli	Students/Research Scholar
51	Shaikh Felomeena Sharfoddin	Female	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
52	Dr. Mahesh Sahebrao Wavare	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Teaching Faculty
53	Chandrakanta Dattu Patil	Female	Savitribai Phule Pune University	Students/Research Scholar
54	Jitendra Subhash Garud	Male	Dr D Y Patil Institute Of Engineering, Management And Research Akurdi Pune	Teaching Faculty
55	Snehal Patil	Female	Mit ,Pune	Teaching Faculty
56	Nadeem Anwer Nisar Ahmed	Male	Pune Institute Of Computer Technology, Pune	Teaching Faculty
57	Tarpe Sainath Nivrutti	Male	Sr School of Mathematical Sciences ,S R T M University ,Nanded	Students/Research Scholar
58	Pooja Santosh Laturiya	Female	Rajarshi Shahu Mahavidyalaya Latur	Teaching Faculty
59	Akash Janardhan Waghmare	Male	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Teaching Faculty
60	Panchal Aniket Narsing	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
61	Anushri Santosh Purke	Female	S R T M University Nanded	Students/Research Scholar
62	Viraj Boyane	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
63	Birajdar Vishwajit Dinkar	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
64	Bhingole Vishnu Dattatray	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
65	Momin Aqsa Fatema	Female	Rajarshi Shahu Mahavidyalaya Autonomous Latur	Students/Research Scholar
66	Sagar Nagnath Giram	Male	Rajashri Shahu Mahavidyalaya, Latur	Students/Research Scholar
67	Rohit Rodge Shivanand	Male	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar



68	Kurnapalle Kaustubh Kashinath	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
69	Dnyaneshwar Mahadu Kadam	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
70	Khatke Omkar Kakasaheb	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
71	Krushna Narayan Rathod	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
72	Jogdand Nandini Balasaheb	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
73	Mayuri Madhukar Chinchkar	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
74	Shaikh Sakib Ismail	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
75	Belgaonkar Priti Dilip	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
76	Gundale Maruti	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
77	Shivraj Sanjeev Vibhute	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
78	Shaikh Nuksan Sharaphodin	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
79	Aglave Ashitosh Ramesh	Male	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
80	Aditya Rajkumar Hallale	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
81	Londhe Omkar Rajendra	Male	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
82	Survase Mahesh Nagesh	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
83	Sawant Prajwal Pramod	Male	R. Shahu Mahavidyalaya Latur	Students/Research Scholar
84	Vaishnavi Gajendra Dhole	Female	Shiv Chhatrapati Education Institution	Students/Research Scholar
85	Shubham Bhauasaheb	Male	Rajarshi Shahu College	Teaching Faculty
86	Dr Savata Shamrao Phulsagar	Male	Ramkrishna Paramhansa Mahavidyalaya Osmanabad	Teaching Faculty
87	Gulave Nikita Pralhad	Female	Rajarshi Shahu College Autonomous Latur	Students/Research Scholar
88	Patil Revati Gorakh	Female	Rajarshi Shahu Mahavidyalaya Latur	Students/Research Scholar
89	Meghna Madhav Halkare	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
90	Helambe Sakshi Sanjay	Female	S R T M U Nanded	Students/Research Scholar
91	Dhumale Ankita Madhav	Female	Rajarshi Shahu Mahavidyalaya (Autonomous) Latur	Students/Research Scholar

92	Gaurid Vaishnavi Sangmeshwar	Female	Rajarshi Shahu Mahavidya, Latur	Students/Research Scholar
93	Rutuja Kushaindra More	Female	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
94	Pranali Chalgeri	Female	Abasaheb Garware College	Students/Research Scholar
95	Kumbharkar Sandhya Subhash	Female	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
96	Vaishnavi Digambarrao Kadam	Female	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Students/Research Scholar
97	Gandage Sneha Rajkumar	Female	Rajarshi Shahu Mahavidyalaya Latur (Autonomous)	Students/Research Scholar
98	Rathod Priya Pandhari	Female	Rajarshi Shahu Mahavidyalaya Latur	Students/Research Scholar
99	Shubham Dapkar	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
100	Kamble Nagesh Deepak	Male	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
101	Kumbhar Ganesh Kashinath	Male	Rajarshi Shahu Mahavidyalaya Latur	Students/Research Scholar
102	Namrata Ambadas Khaladkar	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
103	Harshada Funde	Female	Rajarshi Shahu Mahavidyalaya Latur (Autonomous)	Students/Research Scholar
104	Jagtap Omkar Balaji	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
105	Salunke Pratiksha Tukaram	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
106	Vaishnavi Manohar Darade	Female	Rajarshi Shahu Mahavidya Latur, Autonomous	Students/Research Scholar
107	Shruti Dnyaneshwar Painapalle	Female	Rajarshi Shahu Mahavidyalaya, Latur	Students/Research Scholar
108	Nishank Sudhakar Pimple	Male	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Teaching Faculty
109	AKSHATA Shivraj MALI	Female	Aadarsh Mahavidyalaya Umarga	Students/Research Scholar
110	Krushna Pravin Kandakure	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
111	Gitte Vaishnavi Ramkishan	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
112	Kamble Nisha Sanjay	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
113	Rathod Madhukar Murti	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
114	Ankita Sambhaji Jadhav	Female	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar
115	Rathod Namdev Prabhu	Male	Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	Students/Research Scholar

116	Aher Rutuja Dhondiram	Female	Abasaheb Garware College,Pune	Students/Research Scholar
117	Sarge Bhagyashri Laxman	Female	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar
118	Patil Samiksha Shital	Female	Rajarshi Shahu Mahavidyalaya,Latur(Autonomous)	Students/Research Scholar

Date: 29/09/2022

  
Convener/HoD  
**Head,**  
Department of Mathematics,  
Rajarshi Shahu Mahavidyalaya,  
(Autonomous) Latur-413512



  
**Principal**  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)