

**Bahujan Hitaya Bahujan Sukhaya**

**Jalgaon District Maratha Vidya Prasarak Co-operative Samaj's**



**SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE  
COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE,  
(NUTAN MARATHA COLLEGE), JALGAON.  
DISTRICT – JALGAON (MAHARASHTRA)**

**Affiliated**

**KAVAYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERSITY, JALGAON**

**PERSONAL PROFILE**

**DEPARTMENT OF MATHEMATICS**

**J.D.M.V.P. Co. Op. Samaj's,  
Art's, Commerce and Science College, Yawal.**



**Mr. S. R. Gaikwad**

**DEPARTMENT OF MATHEMATICS**

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## 1. Personal Information

1. **Full Name** :- Mr. Gaikwad Shantaram Ramkrishana
2. **Date of Birth** :- 01/04/1968
3. **Designation** :- Assistant Professor
- a. **Department** :- Mathematics
- b. **Full-Time / Part Time / CHB:** - Full Time
- c. **Permanent/ Temporary** :- Permanent
- d. **Date of Appointment** :- 01/07/1999
- e. **Approvals** :- 1) NMU/28/J-22/1659/2000 Dated: 13/05/2000  
2) NMU/88/J-22/327/2002 Dated: 06/06/2002
- f. **Date of Confirmation** :- 01/03/2002
4. **A) Educational Qualification** :- M. Sc. M. Phil

Degree	University	Year of Passing	% of Marks With Grade	Principle Subject
B.Sc.	Poona	1990	79.65%	Mathematics
M.Sc.	Poona	1992	77.65%	Mathematics
M. Phil	M. K. UNIVERSITY	2007	52%	Mathematics

5. **Academic Experience:-** Reaching Experience 25 Years

Sr. No.	Particulars	Subject	No. of Years
1	U.G. Level	MATHEMTICS	25

## 2. Awards:

Secured First Rank in Poona University in M. Sc. Examination and Got Following Prizes

- Wrangler Paranjape Mathematics Prize
- The Indian Mathematical Conference Poona Golden Jubilee Prize
- The Shri J.R. Hiranandani Prize
- Lokmanya Tilak Prize in Mathematics
- The Prof. M. K. Agrawal M. A. / M. Sc. Mathematics Prize

## 3. Subject Taught:

Class	Syllabus Sem. I	Syllabus Sem. II
F. Y. B. Sc.	MTH-101 Matrix Algebra MTH-102 Calculus of Single Variable MTH-103(B) Discrete Mathematics	MTH-201 Ordinary Differential Equation MTH-202 Theory of Equation MTH-203(A) Laplace Transform
S. Y. B. Sc.	MTH-301 Calculus of Several Variable MTH-302(A) Group Theory MTH-303 Practical MTH-304 Set Theory and Logic	MTH-401 Complex Variable MTH-402(A) Differential Equation MTH-403 Practical MTH-404 Vector Calculus
T. Y. B. Sc.	MTH-503 Algebra MTH-505 Integral Transform MTH-508 Practical	MTH-604 Ordinary and Partial Differential equation MTH-605 Graph Theory MTH-608 Practical

#### 4. Training Programmers Underwent:-

##### i) Orientation Course :-

Sr. No.	Name of Institution	Periods of course	Dates From To	Subjects
1	Orientation	UGC-Academic Staff College Dr. Babasaheb Ambedkar University Aurangabad.	10/01/2006 to 07/02/2006 28 days	General

##### ii) Refresher Course :-

Sr. No.	Name of Institution	Periods of course	Dates From To	Subjects
1	Refresher	Academic Staff College GOA	03/10/2003 to 23/10/2003	Mathematics
2	Refresher	Academic Staff College H.P. University Shimla	10/11/2008 to 29/11/2008 21days	Mathematics
3	Refresher	UGC-Academic Staff College Banaras Hindu University, Varanasi.	29/10/2011 to 18/11/2011 21 days	Mathematics

iii) Faculty Development Programme

Sr. No.	Faculty Development Programme	Name of Inst.	Period of Course	Dates	Subject
1	Faculty Development Programme	UGC-HRD Center S. P. Pune University Dept. of Mathematics	7 days	12-18 November 2018	Innovative Teaching Skill in Mathematics
2	Faculty Development Programme	UGC-HRD Center S.P. Pune University Dept. of Mathematics KTHM College Nasik	10 Days	24 June To 04 July 2019	Mathematical Software
3	Three days Faculty Development Programme	Indraraj Art's, Commerce and Science College, Sillod	25 to 27 May 2020	25 to 27 May 2020	ICT Tools for Effective Teaching-learning process
4	Short-Term training Program	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	5 Days	13 September 2021 to 17 September 2021	Mathematical Software
6	Short-Term Professional development Program	Online INDIRA GANDHI NATIONAL OPEN UNIVERSITY NEW DELHI	10 days	January 20-29, 2023	Short-Term Professional development Program

## 5. Publication :-

### i) Paper Publications :-

Sr. No.	Detail of Publication	Name of Publication	Author(s)/ Editor(s)	Level and Date
1.	Numerical Solution of Steady-Heat Conduction Problem Using Grid Method page-128-129	Platinum a peer Reviewed National Multidisciplinary Journal ISSN 2231-0096	First Author	National 2023
2.	Impact of New Education Policy on School and Higher Education page-51 to 57	Akshra publication Proceeding of One Day national Seminar ISBN 978-93-92576-29-4	Single	National 2023
3.	Numerical Solution of Steady Heat Flow Problem Using Finite Element Method. Page 71-76	Journal of Rajasthan Academy of Physical Sciences ISSN 0972-6306	First Author	National 2022
4.	On Differentiability and Integrability of Rings	International Journal of Science and Research(IJSR) ISSN-2319-764	First Author	International 2020
5.	Flow in Sinusoidal tube of varying cross section with permeable wall	International Journal of Engineering Science and Mathematics (IJESM) ISSN-2319-764	Single	International 2020
6.	Jordan Ideals Inprime Rings and Generalized Derivations	Journal of Emerging Technologies and Innovative Research (JETIR) ISSN : 2349-5162	Single	International 2020
7.	Flow in Constricted tube of varying cross section with permeable wall	International Journal of Science and Research(IJSR) ISSN-2319-764 Impact	Author- Mr. S. R. Gaikwad	International 2018



		factor(2017)-7.296 Page.no.1281-1286		
8.	Flow in Convergent and Divergent Tubes of Varying Cross Section with Permeable Wall	International Journal of Science and Research (IJSR)ISSN (Online): 2319-7064Impact Factor (2012): 3.358	J.S.V.R. Krishna Prasad, S. R. Gaikwad	International Volume 3 Issue 9, September 2014
9.	Paper [Divisibility test] Journal of Research and development ISSN-2230-9578 Vol.2 (ISSUE 9)From 33 to 37	Journal of Research and development	P. V. Patil, S. R. Gaikwad	International [30/09/2012]

**ii) Books Published :-**

Sr. No.	Name of the Teacher	Title	Publisher	Year
1	Mr. S. R. Gaikwad Co-Author	Calculus of several variable	Vrinda Publication	2011
2	Mr. S. R. Gaikwad Co-Author	Function of complex variable	Vrinda Publication	2011
3	Mr. S. R. Gaikwad Co-Author	Calculus	Vrinda Publication ISBN 81-7815-030-1	2012
4	Mr. S. R. Gaikwad Co-Author	Differential Equation	Vrinda Publication ISBN 81-7815-053-0	2012
5	Mr. S. R. Gaikwad Co-Author	Topics in Differential Equation	Vrinda Publication ISBN 978-93-85028-10-6	2014
6	Mr. S. R. Gaikwad Co-Author	Calculus of one variable	Vrinda Publication ISBN 978-93-85028-38-0	2015
7	Mr. S. R. Gaikwad	MTH-201 Ordinary Differential	Vrinda Publication ISBN	2015

	Co- Author	Equation	978-93-85028-50-2	
8	Mr. S. R. Gaikwad Co-Author	Calculus of several variable	Vrinda Publication ISBN 978-93-85028-75-5	2016
9	Mr. S. R. Gaikwad Co- Author	MTH-201 Ordinary Differential Equation	KumudVrinda Publication ISBN-978-81-93924- 15-0	1 Dec. 2018
10	Mr. S.R. Gaikwad Co- Author	MTH-202 Theory of Equations	KumudVrinda Publication ISBN-978-81-93924- 16-7	1 Dec. 2018
11	Mr. S. R. Gaikwad Author (single)	Introduction to Algebra	Atharva Publication ISBN-978-93-88544- 72-6	19 Feb.2019
12	Mr. S. R. Gaikwad Author (single)	Differential Calculus	Kumud Publication ISBN 978-93-88834-53-7	2019
13	Mr. S. R. Gaikwad Co- Author	MTH-301 Calculus of Several Variable	KumudVrinda Publication ISBN 978-93-88834-08-7	Aug.2019
14	Mr. S. R. Gaikwad Co- Author	MTH-302(A) Group Theory	KumudVrinda Publication ISBN 978-93-88834-06-3	Aug.2019
15	Mr. S. R. Gaikwad Co- Author	MTH-302(B) Theory of Groups and Codes	KumudVrinda Publication ISBN 978-93-88834-07-0	Aug.2019
16	Mr. S. R. Gaikwad Co- Author	MTH-401 Complex Variable	KumudVrinda Publication ISBN 978-93-88834-33-9	Dec.2019
17	Mr. S. R. Gaikwad Co- Author	MTH-402(A) Differential Equation	KumudVrinda Publication ISBN 978-93-88834-40-7	Dec.2019
18	Mr. S. R. Gaikwad Co- Author	MTH-404 Vector Calculus	KumudVrinda Publication ISBN 978-93-88834-54-4	Feb.2020

19	Mr. S. R. Gaikwad Co- Author	MTH-101 Matrix Algebra	KumudVrinda Publication ISBN 978-93-85027-98-7	2019
20	Mr. S. R. Gaikwad Co- Author	MTH-404 Laplace Transform	KumudVrinda Publication ISBN 978-93-88834-57-5	Feb.2020
21	Mr. S. R. Gaikwad Co- Author	Matrix Algebra	KumudVrinda Publication ISBN 978-93-93867-33-9	Sept.er 2022
22	Mr. S. R. Gaikwad Co- Author	Calculus of Single Variables	KumudVrinda Publication ISBN 978-93-93867-24-7	Septembe r 2022
23	Mr. S. R. Gaikwad Co- Author	Ordinary Differential equation	KumudVrinda Publication ISBN 978-93-93867-54-4	February 2023
24	Mr. S. R. Gaikwad Co- Author	Theory of Equations	KumudVrinda Publication ISBN 978-93-93867-55-1	February 2023

## 6. Paper Presented in Conference :-

### i) Presented Paper International Level :-

Sr. No.	Title of the Paper Presented	Title of Conference	Date & Duration	Organized by
1	Flow in Tube of varying cross section with permeable wall	International Conference On Mathematical Sciences	28/12/2012 To 31 /122012	S.S.E.S. Amravati's Science College Congress Nagar Nagpur (M.S.) India
2	Flow in Constricted Tube of varying cross section with permeable wall	Mathematical Modeling And Optimization Techniques In Sciences And Engineering	26/07/2013 To 27/07 2013	SSBT'S College of Engineering and Technology Bambhori Jalgaon (M.S.) India
3	Flow in Sinusoidal Tube of varying cross section with	International Conference On Recent Advances In Mathematical Sciences	24/12/2013 To 26/12/2013	Rajiv Gandhi ProudयोगikiVishwavi dyalaya , Bhopal

	permeable wall	And Applications.		(M.P.)
4	Numerical Solution of Steady Heat Flow Problem Using Finite element Method	International Conference Mathematical and Statistical Computation	03/03/2022 to 05/03/2022	Department of Mathematics Swami Keshvanand Institute of Technology, Management & Gramothan Jaipur (Rajasthan), India
5	Numerical Solution of Steady-state Heat Conduction Flow Problem Using Grid Method	One day International Multidisciplinary Conference on Recent Trends in Humanities, Commerce and Management and Science and Technology	09 /04/ 2022	JDMVP Co. Samaj;s Shri S. S. Patil Arts, Shri Bhausaheb T. T. Salunkhe Commrce and Shri G. R. Pandit Science College, Jalgaon and K.B. C.N. M. U. Jalgaon
6	Prime gamma ring with centralizing and commuting generalized derivation	International conference on algebra, Discrete mathematics and Applications	9/12/2017 to 11/12/2017	Dr. Babasaheb Ambedkar Marathwada University Aurangabad

**ii) National Level :-**

Sr. No.	Title	Date	Institution	Place
1.	Finite Element Numerical Solution with 3-node Triangular Grids	Resent Trends in Mathematics and Statistics on Account of Golden jubilee of the Mathematics and Statistics	20/10/2023	Pratap College Amalner

2.	Impact of New Education Policy on School and Higher Education	One Day National Level Seminar	29 March 2023	Smt. P. K. Kotecha Mahila Mahavidyalaya, Bhusawal
3.	Algorithmic Study of the Grid Methods for Numerical Solution	National E-Conference on "Recent Advances in Physical and Computational Sciences (NCRAPCS 2022)"	15 Feb. 2022	Dr. Annasaheb G. D. Bendale Mahila Mahavidyalaya, Jalgaon
4.	Fixed Point Theorems for Kannan type Mapping in Hilbert Spaces	National conference on Mathematics And Application in real world	21-22 Feb.2020	Shri S.I.P.Arts,G.B.P. Science &S.T.K.V.S. Commerce College Shahada
5.	Flow in Sinusoidal tube of varying cross section with permeable wall	University level Avishkar	08/01/2020 to 09/01/2020	K.B.C. N.M.U. Jalgaon
6.	Flow in Linearly varying cross section with permeable wall	National Seminar on Recent emergency in Science and Technology	11/02/2019 to 12/02/2019	Shri Vitthalrao Naik College Raver and SevaSadan Education Society Burhanpur
7.	Divisibility Tests	National Conference on Academic Multidisciplinary educational Research	12/02/2018	J. D. M. V. P. Co. Op. Co. Op. Samaj's Arts, Commerce and Science College Jalgaon.

8.	Some Results on UlamHyers stability of integrodifferential equation with nonlocal condition in Banach Space	National conference on Recent Advances in Physical and Mathematical Sciences	Jan. 2020	Shri Shivaji College of Arts, Commerce and Science, Akola
9.	Viscous flow in tube of varying cross Section with permeable wall	National Conference on Algebra, Analysis and Number Theory	13/01/2018 to 14/01/2018	Department of mathematics North Maharashtra University Jalgaon
10.	Effect of air Pollution on earth Atmosphere	National Conference on recent Trends in Chemistry and Environment	5/12/2017	D. D. N. Bhole College Bhusawal
11.	Prime Gamma Ring with Centralizing and Commuting generalized Derivation	National Conference on Role of Mathematics in Science and Technology	17/01/2017	Arts, Commerce and Science College Bodwad
12.	Mathematical Modeling in Porous Media	UGC Sponsored national Conference on Algebra, Analysis and Fuzzy Mathematics	29/01/2016 to 30/01/2016	North Maharashtra University Jalgaon
13.	Flow in Linear Tube of varying cross section with permeable wall	National Conference Mathematics	30/01/2015 to 31/01/2015	M.J. College Jalgaon
14.	Flow in Divergent Tube	National Conference on	23/12/2014 to	Deogiri College, Aurangabad

	of varying cross section with permeable wall	Recent Advances in Mathematics	25/12/2014	
15.	Flow in Convergent Tube of varying cross section with permeable wall	Recent Trends In Mathematics And Its Applications	16/12/2013 To 17/12/2013	G.D.M. Arts, K.R.N. Commerce and M.D. Science College, Jamner, Dist.Jalgaon.
16.	Aspect of finite ring	Recent Advances In Mathematics	28/09/2012	R.N. Chandak Arts, J.D. Bytco Comm. &N.S. Chandak Science College, Nasik
17.	Synthesis and properties of nonmaterial	Recent Trends In Engineering Sciences	04/01/2012 to 05/01/2012	J.T.Mahajan College of Engineering, Faizpur

### 7. Participation in Curriculum :

Sr. No.	Title of Conference / Symposium / Workshop	Place	Period	Level	No. of days
1. 2 4	One Day Syllabus Restructuring Workshop	Art, Commerce & Science College Jamner	22/09/2023	University	01
2.	One Day Syllabus Restructuring Workshop	Rani LaxmibaiMahavidyalayaParola	02/03/ 2022	University	01
3. 8	One day Workshop T. Y. B.Sc. Syllabus Framing	P. O. Nahata College Bhusawal	06/03/2020	University	01
4.	Syllabus framing for S. Y. B. Sc.	VasantraoNaik College Shahada	14/03/2019	University	01

	Mathematics				
5.	Workshop - [F.Y.B.Sc. Mathematics Syllabus Framing]]	R.C.Patel Arts, Comm. and Science college Shirpur	24/04/2018	University	01
6.	Workshop - [T.Y.B.Sc. Mathematics Syllabus Framing]]	arts comm.and science college jamner	03/03/2017	University	01
7.	Workshop - [F.Y.B.Sc. Mathematics Syllabi Framing]	M.J.CollegeJalgaon	21/01/2015	University	01
8.	Workshop - [T Y B Sc Syllabus Framing]	D N College Faizpur	07/02/2009	University	01
9.	Workshop - [S Y BSc Syllabus Framing]	SSVPS Science College Dhule	08/12/2007	University	01
10.	Workshop - [FY B Sc Syllabus Framing]	Khadase College Muktainagar	03/01/2007	University	01
11.	Workshop - [T Y B Sc Syllabus Framing]	ASC College, Jamner	24/08/2003	University	01
12.	Workshop - [S Y BSc Syllabus Framing]	Khadase college, Muktainagar	10/02/2003	University	01



## 8. Participation in Conferences/ Seminars/Workshops:

Name of teacher	University	State/National	International
Participated	17	27	02

Sr. No.	Title of Conference / Symposium / Workshop	Place	Period	Level	No. of days
1.	Intellectual Property and Research	Institute of technology and Management	25/03/2023	National	01
2.	Seminar on “National Higher Education Qualifications Framework”	SardarVallabhbbhai Patel Arts & Science College, Ainpur	28/02/2022	State	01
3.	One Day National Webinar (12/04/2022) on “NEP-2020 Possibilities and Challenges”	Shri Shivaji Vidya Prasarak Sanstha’sBhausah eb N. S. Patil Arts & M. F. M. A. Commerce College, Dhule,	12/04/2022	National	01
4.	Webinar on NEP-2020	Gujarat University Ahmadabad	08/09/2022	National	01
5.	Two Day National Webinar on “Quality Management in Education”	K. M. E. society G. M. Momin women College Bhivandi	10/08/2021 to 11/08/2021	National	02
6.	One Day Online National Level SOFT SKILLS DEVELOPMENT WORKSHOP	Tapti Education society’s Bhusawal Arts, Science and P. O. Nahata Commerce College, Bhusawal	20/08/2021	National	01

7.	Workshop on research Methodology	KBC NMU Jalgaon	01/02/2021 To 08/02/2021	University	08 days
8.	State Level One Day Webinar On Career Opportunities In Mathematics After Graduation	RSSPM Arts, Science & Comm. College, Chalisgaon	11/08/2021	State	01
9.	National Webinar on 'Cryptography'	K.B. C.N. M. U. Jalgaon in collaboration with Indian Institute of Information Technology, Lucknow.	10/09/2021 to 12/09/2021	National	02
10.	"Three Days Online Workshop on The Revised Accreditation Framework of NAAC"	D. M.E. S. Arts and Science College, Amalner	22/07/2021 to 24/07/2021	University	03
11.	State Level One Day Workshop On NAAC Criteria	Arts, Science & Comm. College, Dondaicha	28/07/2021	State	01
12.	National One Day Webinar on "APPLICATIONS OF MATHEMATICS"	RSSPM Arts, Science & Comm. College, Chalisgaon	28/08/2021	National	01
13.	Workshop of Principals & career kata Coordinators	KBC Jalgaon & Uttamrao Patil Arts and Science College, Dahiwel, Dhule,	24/08/2021	University	01
14.	International virtual conference on 'Advances in Material	Uttamrao Patil Arts and Science College, Dahivel, Dhule,	10/09/2021	International	01

	Sciences, Applied Sciences and Engineering'				
15.	National Webinar on Soft Skill and creative Thinking in Chemical and Physical Sciences	J. D. M. V. P. Co. Op. Samaj's Department of Chemical and Physical, Yawal	8/06/2020	National	01
16.	Train the teacher training program	KBC NMU Jalgaon	20/07/2020 to 23/07/2020	University	04
17.	Webinar on Online Student Registration, admission online Fees Collection and online Learning	Master Soft, Nagpur	18/06/2020	National	01
18.	International Conference on Advances in Physical, Chemical and Mathematical Sciences	R. S. T.M. University Nagpur	13/02/2020 to 16/02/2020	International	04
19.	National Conference	K.B.C.N.M.U. Jalgaon and Raver College	26/12/2019 to 27/12/2019	National	02
20.	Exhibition - [45th Science exhibition at	Yawal	24/12/2019	Taluka	01

	Taluka Level]				
21.	National workshop on Recent Trends in Mathematics	Dept of Mathematics K.B.C.N.M.U. Jalgaon	23/12/2019	National	01
22.	One day Workshop on Role of IQAC in Revised NAAC Accreditation	AppasahebR.B.Garud Arts ,Comm and Sci. College Shendurni	06/02/2019	University	01
23.	National workshop on Recent Trends in Mathemaics	Dept of Mathematics K.B.C.N.M.U. Jalgaon	03/03/ 2019	National	01
24.	VidyarthiVigyan Manthan-2018	J.D.M.V.P. Nutan Maratha College Jalgaon	20/02/2019	National	01
25.	Conference - [IST NATIONAL TEACHER CONGRESS ON INSPIRING TEACHERS STRENGTHENING GENERATION]	MIT COLLEGE PUNE	23/09/2016 to 25/09/2016	National	03
26.	Workshop - [Workshop [Academic performance indicator and performance based appraisal system]	P.O.Nahata college ,Bhusawal	30/08/2015	University	01
27.	Workshop on National Quality	KBCNMU Jalgaon	23/03/2015 To	National	02

	Renaissance		24/03/2015		
28.	District Level Avishkar	KBCNMU Jalgaon & P.O. Nahta College Bhusawal	07/10/2014	University	01
29.	Conference [Algebra, Analysis and Fuzzy Mathematics]	NMU Jalgaon	21/02/2014 To 22/02/2014	National	03
30.	Workshop [Research Methodology]	N.M.U. Jalgaon	20/09/2012 to 24/09/2012	University	05
31.	Conference - [Mathematical sciences]	North Maharashtra University Jalgaon	05/03/2012	National	01
32.	Workshop - [Aspects of research methodology]	P O Nahata College Bhusawal	26/01/2012	University	01
33.	Two Days National Level Seminar	D N College Faizpur	20/01/2012 To 21/01/2012	University	02
34.	Conference - [Recent development in graduate ,Post graduate research level Mathematics]	R G Bagadia Arts ,Commerce and science College, Jalana	10/01/2011 to 12/01/2011	National	03
35.	Conference - [Mathematical Analysis and application 2011]	Z B Patil College ,Dhule	28/11/2011 to 30/11/2011	National	03
36.	Conference - [Developemen	P E S College of Engineering	02/02/2009 to	National	02

	t in UG and PG Mathematics	,Aurangabad	03/02/2009		
37.	Workshop - [New Trends in Higher education]	D N College Faizpur	02/03/2009	University	01
38.	Conference - [Education In Values and Spirituality for self-improvement]	PrajapitaBhrahma KumarisIshwariya VishwaVidyalaya Mount Abu rajasthan	15/06/2008 to 18/06/2008	National	04
39.	Seminar - [Science and Technology for the betterment of comunityDeva lopement]	Raver College	25/02/2008	State	01
40.	Seminar - [M Phill Degree Course Work]	Nasik	24/02/2007 to 27/02/2007	State	04
41.	Conference - [School Educators Convention on Education in values and Rajyoga Meditation]	PrajapitaBhrahma KumarisIshwariya VishwaVidyalaya Mount Abu rajasthan	16/05/2006 to 20/05/2006	National	05
42.	Workshop - [WorkShop in Mathematics]	M J College Jalgaon	17/10/2004	University	01
43.	Workshop - [Preparation for preexaminatio	YCM Nashik	04/02/2004	University	01

	n]				
44.	Workshop - [Workshop i Mathematics]	Nutan Maratha College, Jalgaon	13/10/2002	University	01
45.	Workshop - [Workshop in Mathematics]	P K KotechaMahila College, Bhusawal	28/01/2001	University	01
46.	Workshop - [Workshop in Mathematics]	G D BendaleMahilaMa havidyalaya, Jalgaon	26/03/2000	University	01

### 9. DEVELOPMENT OF E-LEARNING DELIVERY PROCESS/MATERIAL

Sr. No	e-learning delivery process/material	Title of the process/material	Details of the website	Year
1	Video	Exact and non-exact Differential equation	<a href="https://youtu.be/r77W7_R0wIw">https://youtu.be/r77W7_R0wIw</a>	19 April 2020
2	Video	Linear and Bernoulli's Differential equation	<a href="https://youtu.be/-riKdo019Xs">https://youtu.be/-riKdo019Xs</a>	20 April 2020
3	Video	Complex Number and their Properties	<a href="https://youtu.be/TGFxUA1cQ8c">https://youtu.be/TGFxUA1cQ8c</a>	25 April 2020
4	Video	De Moivre's Theorem and it's Application	<a href="https://youtu.be/N11B7uCH92U">https://youtu.be/N11B7uCH92U</a>	29 April 2020

5	Video	Analytic Function	<a href="https://youtu.be/ei5qyRgULR0">https://youtu.be/ei5qyRgULR0</a>	5 May 2020
6	Video	Composite Function and Chain Rule	<a href="https://youtu.be/OasByxBIqLg">https://youtu.be/OasByxBIqLg</a>	11 May 2020
7	Video	Homogeneous function and Euler's Theorem	<a href="https://youtu.be/ZkMyRW7Wcsk">https://youtu.be/ZkMyRW7Wcsk</a>	15 May 2020
8	Video	Group and Properties of groups	<a href="https://youtu.be/qbgN05o6fv4">https://youtu.be/qbgN05o6fv4</a>	24 May 2020
9	Video	Group and examples on groups	<a href="https://youtu.be/fSWmalclMXy">https://youtu.be/fSWmalclMXy</a>	31 May 2020
10	Video	Finite group, order of an elements in group and their properties	<a href="https://youtu.be/3plifuCnFLU">https://youtu.be/3plifuCnFLU</a>	6 June 2020
11	Video	Order of an elements in group and examples	<a href="https://youtu.be/sZUHESw1rdU">https://youtu.be/sZUHESw1rdU</a>	18 June 2020
12	Video	Limit of function of two variables	<a href="https://youtu.be/kTLaWoQ63t4">https://youtu.be/kTLaWoQ63t4</a>	Aug 11, 2020
13	Video	Repeated limits and Continuity	<a href="https://youtu.be/xA5wykTsMBM">https://youtu.be/xA5wykTsMBM</a>	Aug 18, 2020
14	Video	Higher order Partial Derivatives	<a href="https://youtu.be/wYIRB-tk658">https://youtu.be/wYIRB-tk658</a>	Aug 24, 2020
15	Video	Differentiability	<a href="https://youtu.be/UjTvB95PjBM">https://youtu.be/UjTvB95PjBM</a>	Aug 26, 2020



16	Video	Differential and Approximation	<a href="https://youtu.be/DWMVJ0SILFL">https://youtu.be/DWMVJ0SILFL</a>	Aug 29, 2020
17	Video	Jacobian and its properties	<a href="https://youtu.be/HdgKenWAr6o">https://youtu.be/HdgKenWAr6o</a>	Sep 2, 2020
18	Video	Mean Value Theorem For function of two variable	<a href="https://youtu.be/asF2B3H-ip8">https://youtu.be/asF2B3H-ip8</a>	Sep 18, 2020
19	Video	Subgroups and their properties	<a href="https://youtu.be/cBgnSAVxgrw">https://youtu.be/cBgnSAVxgrw</a>	Oct.11,2020
20	Video	Subgroup, Cyclic group and examples	<a href="https://youtu.be/3lh0fNsH7ns">https://youtu.be/3lh0fNsH7ns</a>	Oct.11,2020

## 10. Use of ICT: Power Point presentation

### S. Y. B. Sc.

1. S. Y. MTH-301 UNIT-I Video No. 1 Limits Function of two and three variables
2. S. Y. MTH-301 UNIT-I Video No. 2 Repeated Limits and continuity Function of two and three variables
3. S. Y. MTH-301 UNIT-I Video No. 3 Partial derivatives Function of two and three variables
4. S. Y. MTH-301 UNIT-I Video No. 4 Higher Order Partial derivatives Function of two and three variables
5. S. Y. MTH-301 UNIT-I Video No. 5 Differentiability Function of two and three variables
6. S. Y. MTH-301 UNIT-I Video No. 6 Differentials( Approximation)Function of two and three variables
7. S. Y. MTH-301 UNIT-I Video No. 7 Unit-I Multiple Choice Questions
8. S. Y. MTH-301 UNIT-II Video No-1 Composite function and Chain Rule
9. S. Y. MTH-301 UNIT-II Video No -2 Homogeneous Function and Euler's Theorem
10. S. Y. MTH-301 UNIT-II Video No. 3 Jacobian Unit-II

11. S. Y. MTH-301 UNIT-II Video No. 4 Mean Value Theorem for function of two variables Unit-II
12. S. Y. MTH 301 UNIT-III PPT -1 Taylor's Theorem Unit-III
13. S. Y. MTH 301 UNIT-III PPT -2 Maclaurian's Theorem Unit-III
14. S. Y. MTH 301 UNIT-III PPT -3 Extreme values Unit-III
15. S. Y. MTH-301 UNIT-IV PPT -1 Double Integration Unit-IV
16. S. Y. MTH-301 UNIT-IV PPT -2 Triple Integrals Unit-IV
17. S. Y. MTH-301 UNIT-IV PPT -3 Extreme values Unit-III
18. S. Y. MTH-302 UNIT-I PPT-1.Group and properties of groups
19. S. Y. MTH-302 UNIT-I PPT-2. Group and examples on groups
20. S. Y. MTH-302 UNIT-I PPT- 3. Finite group, order of an elements in group and their properties
21. S. Y. MTH-302 UNIT-I PPT-4. Order of an elements in group and examples
22. S. Y. MTH-302 UNIT-II PPT-1. Subgroup and their properties
23. S. Y. MTH-302 UNIT-II PPT-2. Subgroup, cyclic group and examples
24. S. Y. MTH-302 UNIT-II PPT- 3. Left coset , right coset , their properties cosets
25. S. Y. MTH-302 UNIT-II PPT-4. Left coset , right coset and Lagrange's Theorem
26. S. Y. MTH-302 UNIT-II PPT-5. Euler's Theorem, Fermat's Theorem and Examples on it
27. S. Y. MTH-302 UNIT-III PPT-1. Homomorphism
28. S. Y. MTH-302 UNIT-III PPT-2. Kernel of Homomorphism
29. S. Y. MTH-302 UNIT-III PPT-3. Isomorphism
30. S. Y. MTH 302 UNIT-IV PPT-1. Rings and Examples on it
31. S. Y. MTH-401 UNIT-I PPT-1 Complex Number and their properties
32. S. Y. MTH-401 UNIT-I PPT-2 De Moivre's theorem and its Applications
33. S. Y. MTH-401 UNIT-II PPT-1 function of Complex Variable
34. S. Y. MTH-401 UNIT-II PPT-2 Function of Complex Variable
35. S. Y. MTH-401 UNIT-II PPT-3 Function of Complex Variable
36. S. Y. MTH-401 UNIT-III PPT-1

## **F. Y. B. Sc.**

1. F. Y. MTH 101 UNIT-I PPT. 1 Matrix Algebra
2. F. Y. MTH-101 UNIT-I PPT No. 2 Matrix Algebra
3. F. Y. MTH 101 UNIT-I PPT. No. 3 Matrix Algebra
4. F. Y. MTH 101 UNIT-I PPT No. 4 Elementary matrices
5. F. Y. MTH 101 UNIT-I PPT No. 5 Rank of matrix
6. F. Y. MTH 101 UNIT-I PPT No. 6 Normal form matrix
7. F. Y. MTH 101 UNIT-I PPT No. 7 examples on Normal form matrix
8. F. Y. MTH 101 UNIT-II PPT No. 1 System of linear equation
9. F. Y. MTH 101 Unit-III PPT-1 Orthogonal Matrices
10. F. Y. MTH 101 Unit-III PPT-1 Orthogonal Matrices
11. F. Y. MTH 101 Unit-III PPT-3 Examples on Eigen Values and Eigen Vectors
12. F. Y. MTH 102 UNIT-I Video No. 1 Limits
13. F. Y. MTH 102 UNIT-I Video No. 2 Limits
14. F. Y. MTH 102 UNIT-I Video No. 3 continuity
15. F. Y. MTH 102 UNIT-I Video No. 4 properties of continuity
16. F. Y. MTH 102 UNIT-II Video No. 5 differentiability for function of one variable
17. F. Y. MTH 102 UNIT-II Video No. 6 Rolle's Theorem and examples on it
18. F. Y. MTH 102 UNIT-II Video No. 7 Lagrange's Mean Theorem and examples on it
19. F. Y. MTH 102. UNIT-II Video No. 7 Lagrange's Mean Theorem and examples on it
20. F. Y. MTH 102. UNIT-II Video No. 7 Lagrange's Mean Theorem and examples on it
21. F. Y. MTH 102 UNIT-II Video No. 9 Monotonic increasing and decreasing function and examples
22. F. Y. MTH 102 UNIT-III Video No. 11 Successive Differentiation – Copy
23. F. Y. MTH 102 UNIT-III Video No. 10 Successive Differentiation
24. F. Y. MTH. 201 UNIT-I PPT-1 Differential Equation Power point
25. F. Y. MTH. 201 UNIT-I PPT-1 Differential Equation Power point
26. F. Y. MTH-201 UNIT-II PPT-1
27. F. Y. MTH-201 UNIT-II PPT-2
28. F. Y. MTH-201 UNIT-II PPT-3
29. F. Y. MTH-201 UNIT-II PPT-4

In Covid-19 pandemic situation online lectures are organized through Microsoft Teams as well as Zoom, Google-Meet, etc.

## 11. Event /Programmes Workshops/Seminars Organized By

### Department:

Sr. No.	Name of the programme	Name of organizing agency	Level	Date	No. of participants
1	Students Development Program	Bombay Stock Exchange Forum	National	05/11/2020 to 10/11/2020	55
2	Faculty Development Program	Bombay Stock Exchange Forum	National	26/11/2020 to 27/11/2020	33
3	E-Quiz on Mathematics. The Occasion of National Mathematics Day	Department of Mathematics J. D.M. V. P. Co. Op. Samaj's Arts, Comm. And Science College, Yawal	University	22 Dec. 2021	437
4	Science Quiz	Department of Mathematics and Science association Organized quiz on Occasion Science Day	College	28 Feb. 2022	163

## 12. Co-Curricular Activities

### Contribution of Faculty in College/University examination

#### i) The faculty of department Contributed as paper setter in University examination

Sr. No.	Name of College	Worked as	Date	Class	No. of days
1.	K. B. C. N. M. U. Jalgaon	Member Paper Setting Committee	28 Jan. 2020	S. Y.B. Sc.	01
2.	K. B. C. N. M. U. Jalgaon	Chairman Paper Setting Committee	4 June 2020	S. Y.B. Sc.	01
3.	K. B. C. N. M. U. Jalgaon	Member Paper Setting Committee	12 Nov. 2020	S. Y.B. Sc.	01
4.	K. B. C. N. M. U. Jalgaon	Chairman Paper Setting Committee	22 Nov. 2021	S. Y.B. Sc.	01
5.	K. B. C. N. M. U. Jalgaon	Chairman Paper Setting Committee	01 Nov. 2022	S. Y.B. Sc.	01
6.	K. B. C. N. M. U. Jalgaon	Chairman Paper Setting Committee	17 July 2023	S. Y.B. Sc.	01
7.	K. B. C. N. M. U. Jalgaon	Member Paper Setting Committee	31 Aug. 2023	S. Y.B. Sc.	01

ii) **The faculty of department Contributed Flying Squad in University examination**

Sr. No.	Name of College	Worked as	Date	Class	No. of days
1.	K. B. C. N. M. U. Jalgaon	Member flying Squad Committee	13 Nov. to 23 Nov. 2019	University Examination	11
2.	K. B. C. N. M. U. Jalgaon	Member flying Squad Committee	22 May 2023 to 2 June 2023	University Examination	13
3.	K. B. C. N. M. U. Jalgaon	Member flying Squad Committee	25 June 2022 to 30 June 2022	University Examination	06

iii) **The faculty of department Contributed Examiner in Redressal in University examination**

Sr. No.	Name of College	Worked as	Date	Class	No. of days
1.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	22 June 2018	University Examination	01
2.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	14 Aug. 2018	University Examination	01
3.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	09 Oct. 2018	University Examination	01
4.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	03 March 2019	University Examination	01
5.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	01 Aug. 2019	University Examination	01

6.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	20 June 2019	University Examination	01
7.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	12 July 2019	University Examination	01
8.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	15 July 2019	University Examination	01
9.	K. B. C. N. M. U. Jalgaon	Examiner in Redressal	17 Feb. 2020	University Examination	01

iv) **The faculty of department Contributed Examiner University Practical examination**

Sr. No.	Name of College	Worked as	Date	Class	No. of days
1.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Yawal	Internal Examiner for Practical	13 Dec. 2018	S. Y. B. Sc.	01
2.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	13 Dec. 2018	S. Y. B. Sc.	01
3.	Arts, and Science 4. College, Pachora	External Examiner for Practical	15 Dec. 2018	S. Y. B. Sc.	01
4.	M. J. College Jalgaon	External Examiner for Practical	17 Dec. 2018	S. Y. B. Sc.	01
5.	H. J. Thim Arts, and Science College, Jalgaon	External Examiner for Practical	29 to 31 Oct. 2018	T. Y. B. Sc.	03
6.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College,	Internal Examiner for	25 to 27	T. Y. B. Sc.	03

	Jalgaon	Practical	Oct. 2018		
7.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	9 March 2019	S. Y. B. Sc.	01
8.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Yawal	Internal Examiner for Practical	11 March 2019	S. Y. B. Sc.	01
9.	Arts, and Science College, Pachora	External Examiner for Practical	12 March 2019	S. Y. B. Sc.	01
10.	Arts, Comm. and Science College, Jamner	External Examiner for Practical	18 to 20 March 2019	T. Y. B. Sc.	03
11.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	22 to 25 March 2019	T. Y. B. Sc.	03
12.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	14 to 16 Oct. 2019	T. Y. B. Sc.	03
13.	D. G. BendaleMahilaMahavidyalaya, Jalgaon	External Examiner for Practical	17 to 19 Oct. 2019	T. Y. B. Sc.	03
14.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	12 to 14 March 2020	T. Y. B. Sc.	03
15.	Arts, Comm. and Science College, Jamner	External Examiner for Practical	16 to 18 March 2019	T. Y. B. Sc.	03
16.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	9 March 2020	S. Y. B. Sc.	01
17.	J. D. M. P. Co. Op. Samaj's Arts,	Internal	11 March	S. Y. B. Sc.	01



	Comm. and Science College, Yawal	Examiner for Practical	2020		
18.	Arts, Comm. and Science College, Jamner	External Examiner for Practical	4 May 2022 to 5 May 2022	S. Y. B. Sc.	02
19.	P. K. KotechMahilaMahavidyalaya Bhusawal	External Examiner for Practical	6 May 2022	S. Y. B. Sc.	01
20.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Yawal	Internal Examiner for Practical	7 May 2022	S. Y. B. Sc.	01
21.	Dr. Annasaheb G. D. Bendale Mahila Mahavidyalaya, Jalgaon	External Examiner for Practical	8 May 2022 to 9 May 2022	S. Y. B. Sc.	02
22.	P. K. Kotech Mahila Mahavidyalaya Bhusawal	External Examiner for Practical	11 May 2022	T. Y. B. Sc.	01
23.	Arts, and Science College, Bhalod	External Examiner for Practical	12 May 2022	S. Y. B. Sc.	01
24.	Arts, Comm. and Science College, Shendurni	External Examiner for Practical	15 May 2022	S. Y. B. Sc.	01
25.	KCEs Institute of Management and Research	Venue Officer	2 Aug. 2022	B. P. Ed. CET	01
26.	Arts, and Science College, Bhalod	External Examiner for Practical	25 Nov. 2022	S. Y. B. Sc.	01
27.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College,	Internal Examiner for	19 April to 21 April	T. Y. B. Sc.	03

	Yawal	Practical	2023		
28.	Arts, Comm. and Science College, Jamner	External Examiner for Practical	16 April to 18 April 2023	T. Y. B. Sc.	03
29.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Jalgaon	Internal Examiner for Practical	11 April 2023	S. Y. B. Sc.	01
30.	J. D. M. P. Co. Op. Samaj's Arts, Comm. and Science College, Yawal	Internal Examiner for Practical	12 April 2023	S. Y. B. Sc.	01
31.	Arts, Comm. and Science College, Jamner	External Examiner for Practical	13 April 2023	S. Y. B. Sc.	01

v) **Contribution of Faculty in College**

Name of Teacher	Year	Name of Committee	Post Held
Mr. S. R. Gaikwad	2018-19	IQAC	Coordinator
		College Development Committee	Member
		Academic Audit Committee	Coordinator
		Time Table Committee	Chairman
		Admission Committee	Member
		Library Committee	Chairman
		Examination Committee	Chairman
		Annual Gathering Prize Distribution Committee	Chairman

		General Knowledge Committee	Chairman
		Academic Calendar Committee	Chairman
		Gymkhana Committee	Member
		Science association	Member
		University Examination	CAP Director
Mr. S. R. Gaikwad	2019-20	IQAC	Coordinator
		College Development Committee	Member
		Time Table Committee	Chairman
		Admission Committee	Member
		Library Committee	Chairman
		Examination Committee	Chairman
		Annual Gathering Prize Distribution Committee	Chairman
		General Knowledge Committee	Chairman
		Academic Calendar Committee	Chairman
		Gymkhana Committee	Member
		Science association	Member
		University Examination	CAP Director
Mr. S. R. Gaikwad	2020-21	IQAC	Coordinator
		College Development Committee	Member
		Time Table Committee	Chairman
		Admission Committee	Member
		Library Committee	Member
		Examination Committee	Chairman
		Annual Gathering Prize	Member

		Distribution Committee	
		General Knowledge Committee	Member
		Academic Calendar Committee	Chairman
		Gymkhana Committee	Member
		Science association	Member
		University Examination	Assist. Director
Mr. S. R. Gaikwad	2021-22	IQAC	Coordinator
		College Development Committee	Member
		Time Table Committee	Chairman
		Admission Committee	Member
		Library Committee	Member
		Examination Committee	Chairman
		Annual Gathering Prize Distribution Committee	Member
		General Knowledge Committee	Member
		Academic Calendar Committee	Chairman
		Gymkhana Committee	Member
		Science association	Member
		University Examination	Assist. Director
Mr. S. R. Gaikwad	2022-23	IQAC	Member
		Time Table Committee	Member
		Admission Committee	Member
		Library Committee	Member
		Examination Committee	Member
		Annual Gathering Prize Distribution Committee	Member

		General Knowledge Committee	Member
		Academic Calendar Committee	Member
		Gymkhana Committee	Member
		Science association	Member
		University Examination	Member
Mr. S. R. Gaikwad	2023-24	IQAC	Member
		Time Table Committee	Member
		COCC	Member
		Admission Committee	Member
		Gymkhana Committee	Member
		Internal Examination Committee	Chairman
		Annual Gathering Prize Distribution Committee	Member
		Online examination Committee	chairman
		Academic Calendar Committee	Chairman
		Narcotics Prevention Committee	Chairman
		Science association	Member
		Excursion Committee	Member
		Yuva Munch	Member

### **13. Extra-Curricular Activities**

Worked as a Mathematics Subject expert at

- 1) Kotecha. Mahila Mahavidyalaya BhusawalDt.12/07/2009.
- 2) Arts, Commerce and Science College Varangaon Dt.05/10/2010.
- 3) Arts, Commerce and Science College Varangaon Dt.05/08/2011
- 4) Arts, Commerce and Science College Varangaon Dt.14 /08/2012
- 5) Arts, Commerce and Science College Varangaon Dt.02 /09/2013
- 6) Arts, Commerce and Science College VarangaonDt.09 /09/2014
- 7) J. D. M. V. P. Co. Op. Samaj's Arts, Commerce and Science College Jalgaon Dt.15/07/2014
- 8) J. D. M. V. P. Co. Op. Samaj's Arts, Commerce and Science College Yawal Dt.13/07/2018
- 9) P. O. Nahata College, Bhusawal Dt. 04/09/2019
- 10) J. D. M. V. P. Co. Op. Samaj's Arts, Commerce and Science College Jalgaon Dt.02/10/2021

## **14. Corporate, Social and Cultural Activities**

### **I) Social & Cultural Activities:-**

1. Worked as Member of Cultural Committee.
2. Worked as Chairman of annual gathering committee.
3. Worked as Chairman of Prize Distribution Committee.
4. Worked as Member of Sport committee.

### **II) Professional Organization of Teachers:-**

1. Member of North Maharashtra University College Teachers Organization (N. Mucto Unit)
2. Member of North Maharashtra Mathematics teacher association.

### **III) Member of Professional Bodies:-**

1. Director of J. D. M. V. P. Co-operative college Society Limited, Jalgaon
2. Member of J. D .M. V .P. Co-operative Credit Society Limited, Jalgaon