



12. Total Teaching Experience

- ▲ i) Under Graduate - 22Yrs.
- ii) Post - Graduate - 07Yr
- iii) Research Guidance – Nil

13. Teaching Programmes attended

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Sr. No.	Orientation / Refresher Course/FDP	Name of Inst.	Period of Course	DATE From - To	Subject
1	Orientation	Goa University	2003-04	05.02.2004 To 03.03.2004	General
2	Refresher	Pune University	2008-09	03.11.2008 To 23.11.2008	Computer Applications in Mathematics
3	Refresher	Amravati University	2013-14	11.12.2013 To 31.12.2013	Information Communication Technology (ICT) in Mathematics
4	One Week Faculty Development Programme	Pune University	2018-19	12.11.2018 To 18.11.2018	Innovative Teaching Skills for Mathematics Teachers
5	One and Half Week NPTEL(12 Weeks Course) - Faculty Development Programme	NPTEL- IIT Khargpur <a href="https://swayam.gov.in/">https://swayam.gov.in/</a>	2019-20	Jan-April-2020	Problem solving through Programming in C
6	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	25.04.2020 To 30.04.2020	Python 3.4.3 ID-2425412SSP
7	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	28.04.2020 To 02.05.2020	LATEX ID-24406079SX
8	Two Weeks Faculty Development Programme	Teaching Learning Centre, Ramanujan College, University of Delhi <a href="#">MHRD- PMMMNTT</a>	2019-20	20.04.2020 To 06.05.2020	Managing Online classes and Co-Creating MOOCs
9	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	01.05.2020 To 07.05.2020	Scilab ID-2462537BL9
10	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	01.06.2020 To 07.06.2020	R Programming
11	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	10.05.2020 To 14.05.2020	Moodle Learning Management System

12	One Week Faculty Development Programme	Spoken Tutorial- IIT Bombay <a href="#">MHRD</a>	2019-20	23.05.2020 To 30.05.2020	GeoGebra-5.04
13	One Week Pedagogical Training for Teachers	School of Mathematical Sciences, Swami Ramanand Teertha Marathwada University, Nanded	2020-21	01.07.2020 To 06.07.2020	Tools for Online Teaching Learning and Evaluation
14	Two Weeks Faculty Development Programme	Teaching Learning Centre, Ramanujan College, University of Delhi <a href="#">MHRD-</a> <a href="#">PMMMNMTT</a>	2020-21	01.10.2020 To 15.10.2020	RESEARCH METHODOLOGY

14. A) Research Projects carried out ▲

Sr. No.	Title of the Project	Name of the Funding Agency	Amount (Rs.)	Duration	Remarks
1	Use of Graph Theory in Characterization and Identification of Chemical compounds	University of Mumbai	15,000.00	2009-2010	Completed
2	Applications of Group and Graph Theory to find Automorphism Group of the Euclidean Graph for Some Chemical Molecules	University of Mumbai	21,400.00	2012-2013	Completed
3	Applications Fuzzy Logic and Fuzzy Matrices in Study and Analysis of Production and Marketing Problems of Mango Cultivators in Konkan Region – Maharashtra	University of Mumbai	25,000.00	2015-2016	Completed
4	Study On Problems and Prospects of Cashew Industry Based On Induced Fuzzy Cognitive Maps (IFCM) Model	University of Mumbai	30,000.00	2018-2019	Completed

15. Research papers Published ▲

Sr. No.	Title of the paper	ISSN/ ISBN No.	Publisher	Year of Publication
1	Graph Theory as Tool for study of Chain Isomerism in Chemical Compounds	2229-5836	Journal of Science Information ( Special Issue No- 8) Conference	March-2013
2	Estimation of Most common Age Group of the peoples having Leptospirosis Using Fuzzy Matrix	2229-5836	Journal of Science Information ( Special Issue No- 8) Conference	March-2013
3	A Mathematical Model for Optimization of Transport Routes for Tourist in India	978-81-928717-3-8	Proceeding of NSTSEVDI-2016 Seminar	Feb-2016
4	Applications Fuzzy Matrices in Analysis of Problems encountered by Alphonso Mango Cultivators in Konkan Region	2277-5730	AJANTHA Vol-IX, Issue-III,	July-Sept-2020

16. **COMPUTER SKILLS**

- Programming Languages : C, C++, Java, Python, LATEX
- Mathematical Softwares : MuPad, Scilab, GAP, MatLab, Maxima, SAGE, R, GeoGebra
- Database: MySQL, Oracle, SQL, PL/SQL
- LMS- Moodle, Edmodo, Google classroom

16. A) Seminar, Conference, Symposia, Workshop, Faculty Development Programme etc. attended **Workshops Attended-(OFF-LINE-MODE)**

- Workshop in Computer Programming and System Analysis organized by Ismail Yusuf College, Mumbai from 1<sup>st</sup> to 3<sup>rd</sup> July 1999.
- Workshop in proposed syllabi of F.Y.B.Sc. Organized by Ruia College, Mumbai on 14<sup>th</sup> August 1999.
- Workshop in MUPAD LITE, a Mathematical software, organized jointly by Board of Studies in Mathematics, University of Mumbai and Bombay Mathematical Colloquium, from 18<sup>th</sup> to 20<sup>th</sup> July 2002.
- One-day workshop on The Policy of Women Development Cell organized jointly by Women Development Cell, University of Mumbai and SRM College, Kudal on 9<sup>th</sup> Dec. 2002.
- Workshop on Java Programming in Computer Programming & System Analysis for T.Y.B.Sc.(A/C) organized jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai and Vartak College, Vasai from 2<sup>nd</sup> May 2006 to 6<sup>th</sup> May 2006

- Workshop on DBMS, RDBMS SQL in Computer Programming & System Analysis for T.Y.B.Sc.(A/C) organized jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai & Kirti College, Dadar from 13<sup>th</sup> June 2006 to 16<sup>th</sup> June 2006
- Workshop on Networking in Computer Programming & System Analysis for T.Y.B.Sc.(A/C) organized jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai & Mithibai College, Vile-Parle from 19<sup>th</sup> June 2006 to 20<sup>th</sup> June 2006
- Workshop on C - Programming in Computer Programming & System Analysis for T.Y.B.Sc.(A/C) organized jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai & Ramniranjan Jhunjhunwala College, Ghatkopar(W) from 21<sup>st</sup> June 2006 to 22<sup>nd</sup> June 2006
- Workshop on new F.Y.B.Sc.(Maths) Syllabus jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai & University of Mumbai on 27<sup>th</sup> June 2008
- Workshop on Revision of syllabus for T.Y.B.Com. (Computer Systems & Applications) and S.Y.B.Com. / S.Y.B.A. ( Computer Programming ) organized jointly by BOS in Mathematics & BOS in Statistics Univ. Mumbai & K.B.P. Hinduja College , Charni Road on 9<sup>th</sup> April 2009
- Workshop on Revised syllabus for S.Y.B.Sc. ( Mathematics – Paper - II) organized jointly by Dept. of Mathematics & BOS in Mathematics & Ruia College Mumbai on 3<sup>rd</sup> July 2009
- Workshop on Revised syllabus for S.Y.B.Sc. (Mathematics –Paper-I) organized jointly by Dept. of Mathematics & BOS in Mathematics & K.B.P. College, Vashi on 4<sup>th</sup> July 2009
- State level Second Workshop on SCILAB organized by Bhaskarcharya Pratishthana Pune & IIT Bombay from 31<sup>st</sup> July 2009 to 3<sup>rd</sup> August 2009.
- Workshop on Revised syllabus for T.Y.B.Com. ( Computer Systems & Applications) organized jointly by Dept. of Mathematics & BOS in Mathematics & K.B.P. Hinduja College , Charni Road from 25<sup>th</sup> Sept. 2009 to 26<sup>th</sup> Sept. 2009
- Workshop on Algebra for College Teachers organized by Dept. of Mathematics, Shivaji University Kolhapur 29<sup>th</sup> Jan. 2010 to 30<sup>th</sup> Jan. 2010.
- Workshop on Revised syllabus of T. Y. B. Sc. Mathematics organized by V. G. Vaze College, Mulund( E) on 17<sup>th</sup> July 2010.
- Workshop on Semester Based , Credit and Grading System of F.Y.I.T. organized by Mulund college of Commerce , Mulund on 20<sup>th</sup> June 2011
- Workshop on Semester Based, Credit and Grading System of F.Y.B.Sc. organized by B. N. Bhandodkar college of Science, Thane on 21<sup>st</sup> June 2011

- Workshop on Semester Based, Credit and Grading System of F.Y.B.Com and Revised Exam Pattern of T.Y.B.Com. organized by S. K. Patil college, Malvan on 6<sup>th</sup> July 2011
- Workshop on ‘Know thy Self’ organized by Dept., of Computer Science and Information Technology, S. R. M. College, Kudal on 12<sup>th</sup> Dec. 2011
- Workshop on Semester based Credit and Grading System of S.Y.B.A./B.Com./B.Sc. Foundation Course organized by S. R. M. college, Kudal on 6<sup>th</sup> August 2012
- Workshop on Semester based Credit and Grading System of T.Y.B.Sc. Mathematics and Applied Component organized by S. R. M. college, Kudal on 22<sup>nd</sup> June 2013
- State level UGC sponsored workshop on Applications of Vedic Mathematics in Elementary Education organized by Gogate Walke College, Banda on 30<sup>th</sup> August 2013 to 31<sup>st</sup> August 2013.
- Workshop on Research Ethics organized by IQAC, S.R.M. College, Kudal on 7<sup>th</sup> Feb. 2017
- Understanding Climate Change & Sustainable Development’, 18th Aug 2018, by Climate Reality Project, India at S. R. M. College, Kudal.
- Workshop on All India Survey on Higher Education (AISHE), Management Information System(MIS) and Online Information on Return of Student on Rolls by Statistical Unit for the Academic Year 2018-19 Organized by University of Mumbai, Statistical Unit held on 20<sup>th</sup> December 2018.
- Workshop on All India Survey on Higher Education (AISHE), Management Information System(MIS) and Online Information on Return of Student on Rolls by Statistical Unit for the Academic Year 2018-19 Organized by S. P. K. College, Sawantwadi and University of Mumbai, Statistical Unit held on 18<sup>th</sup> January 2019.

#### **FDP / Workshops Attended-(ON-LINE-MODE)**

- Participated in One-Week Faculty Development Programme on LATEX organized by RMD Singhgad School of Engineering, Warje Pune association with Spoken Tutorial IIT-Bombay MHRD from 28th April to 2nd May 2020.
- Participated in One-Week Faculty Development Programme on Python 3.4.3 organized by Singhgad Institute of Technology Lonavala association with Spoken Tutorial IIT-Bombay MHRD from 25th April to 30th April 2020.
- Participated in One-Week Faculty Development Programme on Scilab organized by Rajarshri Shahu Mahavidyalaya, Latur association with Spoken Tutorial IIT-Bombay MHRD under (PMMMNMTT) Scheme from 1st to 7th May 2020. ID-RSMLFDP\_Scilab\_369

- Participated in One-Week Faculty Development Programme on Moodle Learning Management System organized by Saket College of Arts, Science and Commerce, Kalyan association with Spoken Tutorial IIT-Bombay MHRD from 10th May to 14th May 2020
- Participated in One day National Webinar on e-content development methodology: Four quadrant model, OERs and Copy right issue organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT scheme on 15th May 2020 ID-GAD-TLC/2020/WB14/3490
- Participated in One day Workshop cum Webinar on E-content development & Intellectual Property Rights organized by Joint Director, Higher Education, Panvel & Dandekar College, Palghar on 27th April 2020 W1410
- Participated in Online Faculty Development Program on Fuzzy Sets and Systems organized by Department of Mathematics (Shift – II) Patrician College of Arts and Science, Chennai on 16th May 2020
- Participated in National level FDP on E-learning tools for effective teaching and learning organized by Nirmala memorial Foundation college of commerce and science in collaboration with EdyFly on 16th May 2020
- Participated in Three Days National Level Workshop on Research Methodology, Statistical Technique & Data Analysis using MS-EXCEL organized by Tilak College of Science & Commerce, Vashi from 18th May 2020 to 20th May 2020 ID: A2882
- Participated in Three days Online Training Programme on Research Methodology for Social Sciences organized by Bharathidasan University, Tiruchirappalli from 18th May 2020 to 20th May 2020 ID-BDU-DSW-2020-WB3-463
- Participated in International Online Workshop on Nanomaterial Synthesis is Emerging Facet of the World organized by Late Pushpadevi Patil Arts and Science college Risod, Dsit- Washim on 20th May 2020 LPPC/8FC8FE-CE000003 Faculty ID: E-53
- Participated in Faculty Development Workshop on E-Learning organized by H. R. College of Economics and Com. in collaboration with EdyFly on 20th May 2020
- Participated in One-Week Faculty Development Programme on GeoGebra-5.04 organized by Willingdon College Sangli with Spoken Tutorial IIT-Bombay MHRD under (PMMMNMTT) Scheme from 23rd to 29th May 2020 ID-GEOGEBRAFDP10
- Participated in One-Week Faculty Development Programme on R Programming organized by SVKM's Institute of Technology, Dhule association with Spoken Tutorial IIT-Bombay MHRD from 1st to 7th June 2020 NGIBTM-CE000033
- Participated in Online National FDP on Statistical Analysis of Quantitative Data using Advance Excel for Research Scholars organized by Mathematics Department of Rizvi

College of Arts, Science and Commerce, Bandra (W), Mumbai from 3rd to 4th June 2020

- Participated in Four days Online Faculty Development Programme on “Transforms and Differential Equations – 2020 organized by Dr. N.G.P. Institute of Technology Coimbatore from 8th to 11th June 2020
- Participated in Two days Faculty Development Programme on Online Teaching & E-content organized by S. K. Somiya College and Indian Institute of Digital Education from 11th to 12th June 2020
- Participated in Faculty Development Programme National Webinar on Teaching during and Post COVID Times organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT scheme on 12th June 2020 ID- GAD-TLC/2020/WB16/524
- Participated in Two days Online faculty Development Programme on ICT Tools for effective Teaching & Learning organized by Royal College and University of Technology from 12th to 13th June 2020 ID: ICT-FDP-CE0037
- Participated in Three Days Short Term Training Programme on Latex for Everyone organized by Ramrao Adik Institute of Technology, D.Y. Patil Deemed To Be University, Navi-Mumbai from 18th June to 20th June 2020 ID: OJ9DMI-CE000265
- Participated in Three days Online Faculty Development Programme on Mathematical Modeling in Biomedical Engineering – 2020 organized by Dr. N.G.P. Institute of Technology Coimbatore from 18th June to 20th June 2020.
- Participated in A Virtual International Talk Series on Well-Being, Happiness and Wisdom through Inner-work organized by School of Education Faculty of Education, Dayalbagh Educational Institute Dayalbagh, Agra in collaboration with Simon Fraser University, Burnaby, Canada & MHRD under PMMMNMTT scheme on 18th June & 25th June 2020.
- Participated in Three days Online workshop on Importance of Mathematics in Science and Engineering organized by PES’s College of Engineering, Phaltan in association with IAIAM, TIMC and Bhaskaracharya Pratishthana, Pune from 20th to 22nd June 2020
- Participated in National level Workshop on Python for Beginners organized by Government of Karnataka, Govt. First Grade College, Kolar on 27th June 2020
- Participated in One week online National Level FDP on "Mathematics : A Practical Approach in Science and Technology organized by Deogiri Institute of Engineering and Management Studies, Aurangabad from 28th June to 3rd July 2020



- Participated in One Week Pedagogical Training for Teachers on Tools for Online Teaching Learning and Evaluation organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded from 1st to 6th July 2020
- Participated in Two - Day National Level E-Workshop on Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming in organized by Faculty of Humanities and Science, Adayalampattu Phase -II campus, Chennai Tamilnadu from 10th to 11th July 2020 ID - MGROBS-20071494
- Participated in Five days Faculty Development Programme on "RECENT TRENDS IN DIGITAL TECHNOLOGIES organized by Department of Computer Science, The American College(Autonomous), Madurai from 7th to 11th July 2020
- Participated in Five days National Level Online Faculty Development Programme on Digital Skills for Enhanced Teaching and Learning organized by Government Arts for Mens, Chennai from 13th July to 17th July 2020 ID: XVNPUO-CE000090
- Participated in Twelve Days Faculty Development Programme on Online Teaching-Learning And Research Methodology organized by Govt. P. G. College, Bilaspur Rampur - Uttar Pradesh from 18<sup>th</sup> July to 29<sup>th</sup> July 2020 ID GDCB1096
- Participated in Five days Faculty Development Programme on Latex and its Applications for Researchers organized by Department of Information Science and Engineering, Vidyavardhaka College of Engineering, Mysuru from 20th July to 24th July 2020
- Participated in Six days Faculty Development Programme on Educational Video Creation i.e. E-content development for Teachers organized by Rajashree Chattrapati Shahu College, Kolhapur from 22<sup>nd</sup> to 27th July 2020 ID : FDP0260
- Participated in Five Day Online Faculty Development Programme On Research Methodology organized by Malla Reddy Engineering College for Women Autonomous Institution, UGC, Govt. of India Secunderabad from 27th to 31st July 2020 ID : MRECWFDP143
- Participated in Five days online Faculty Development Programme on Recent Trends in Applicable Mathematics organized by Karunya Institute of Technology and Sciences, Coimbatore from 27th to 31st July 2020
- Participated in Online Instructional Workshop for F.Y.B.Sc. Syllabus Paper I (Calculus I & II) jointly organized by The Board of Studies in Mathematics (University of Mumbai) & D. G. Ruparel College, Matunga on 19<sup>th</sup> August 2020
- Participated in Online Instructional Workshop for F.Y.B.Sc. Syllabus Paper II (Algebra and Discrete mathematics) jointly organized by The Board of Studies in Mathematics (University of Mumbai) & A.V. College of Arts, K.M. College of Commerce, E.S.A College of Science on 20<sup>th</sup> August 2020

- Participated in Two days National Level E-Workshop on Challenges and opportunities for Mathematics in the present Global Scenario organized by Govt. Shyam Mukharji College, Sitapur, Chhattisgarh from 30<sup>th</sup> to 31<sup>st</sup> August 2020

#### **Conference / Seminars / Symposium Attended -(OFF-LINE-MODE)**

- Participated in the State level Conference on Teachers Union & 21st Century arranged by S. H. Kelkar College Devgad on 20<sup>th</sup> December 1998
- Participated in National Conference on Issues and Challenges in Higher Education : India and Canada organized jointly by Shastri Indo- Canadian Institute, New Delhi and Goa University from 16<sup>th</sup> & 17<sup>th</sup> Feb. 2004
- Participated in National Conference on ‘Mathematical Aspects of Physical Concepts and Physical Aspects of Mathematical Concepts’ organized by S.H. Kelkar College, Deogad from 16<sup>th</sup> Jan. 2010 to 17<sup>th</sup> Jan. 2010.
- Participated in State level Seminar on Mathematical Modelling and its Applications organized by Shri. Pancham Khemraj Mahavidyalaya, Sawantwadi on 12<sup>th</sup> Feb. 2011
- Participated in Two days National seminar on ‘Recent trends in Mathematics and its Applications’ organized by C. K. Thakur college Panvel 21<sup>st</sup> and 22<sup>nd</sup> Jan. 2012
- Participated and presented a paper in UGC sponsored Two days National Conference on ‘Recent Trends in Bioremediation and Biodiversity Conservation’ organized by S. R. M. College, Kudal from 1<sup>st</sup> March 2013 to 2<sup>nd</sup> March 2013.
- Participated in UGC sponsored National Conference on Recent Trends in Mathematics and Statistics organized by M. D. College, Parel, Mumbai on 5<sup>th</sup> Sept. 2015
- Participated in National seminar on ‘Recent trends in Differential Equation and its Applications’ organized by Changu Kana Thakur college Panvel 30<sup>th</sup> and 31<sup>st</sup> Jan. 2016
- Participated and presented a paper in UGC sponsored National Seminar on Tourism for Self Employment and Village Development in India organized by Br. B. K. College, Vengurla on 23<sup>rd</sup> Feb. 2016
- Participated in two days DST sponsored National level Symposium on ‘Mathematics and Women in Mathematics’ organized by NES Ratnam College, Bhandup Mumbai on 27<sup>th</sup> and 28<sup>th</sup> Jan. 2017
- Participated and presented a research paper in One Day Online Interdisciplinary National Conference on “Impact of Changing Global Scenario on Human Being” organized by Br. Balasaheb Khardekar College, Vengurla, in collaboration with Gopal Krishna Gokhale College, Kolhapur on 16<sup>th</sup> June 2020

### **Conference / Seminars / Symposium /Webinar Attended -(ON-LINE-MODE)**

- Participated in One day National Webinar organized by IQAC under UGC PARAMARSH Scheme on “E-Learning and MOOCs in Higher Education and New Roles of Teachers” organized by Shri GVG Visalakshi College for Women [UGC-PARAMARSH MENTOR INSTITUTION](#) Udumalpet Tamilnadu on 18<sup>th</sup> May 2020
- Participated in NAAC Awareness program initiated by Higher Education Department, Konkan Region (Panvel) organized by RUSA, Maharashtra and S. P. K. College, Sawantwadi on 20<sup>th</sup> may 2020.
- Participated in Corona Awareness Program organized by Sheth J.N. Paliwala Commerce, Arts and Science college, Pali, Raigad on 20<sup>th</sup> April 2020
- Participated in COVID-19 Pandemic General Awareness Quiz organized by Sant Rawool Maharaj Mahavidyalaya, Kudal On 21<sup>st</sup> April 2020
- Participated in International level Webinar on History of Mathematics organized by Department of Mathematics in collaboration with IQAC V.S. Patel College of Arts & Science, Bilimora, Gujarat, India on 9<sup>th</sup> May 2020 EZHTJU-CE000233
- Participated in One Day National Webinar on Effective Ways To Develop E-Content organized by Smt. Devkiba Mohansinhji Chauhan College of Commerce & Science, Ahmadnagar on 9<sup>th</sup> May 2020 YouTube Live Viewers:15432
- Participated in International webinar on How to write Research Paper organized by KLE society Commerce and Science college, Mumbai on 14<sup>th</sup> May 2020
- Participated in Webinar on Assessment & valuations in the wake of COVID-19 organized by Rajarshi Shahu College (Autonomous) Latur on 15<sup>th</sup> May 2020 No. 2020/RSML/082
- Participated in State level webinar on right to Information Act organized by IQAC, Vartak College, Vasai on 18<sup>th</sup> May 2020
- Participated in Two days webinar on Startup Lifecycle and Patent Registration organized by Atharva College of Engineering on 18<sup>th</sup> and 19<sup>th</sup> May 2020 LADN0W-CE001442
- Participated in One Week Webinar Series on Digi-Tech Teaching Learning- 2020 (MAY 18-22, 2020)-Student Training Program organized by Sinhgad Institute of Technology, Lonavala on 19<sup>th</sup> May 2020 ID: PH1JXK-CE000264
- Participated in One Week Webinar Series On Digi-Tech Teaching Learning- 2020 (MAY 18-22, 2020)- Webinar on Problem / Project based Learning organized by Sinhgad Institute of Technology, Lonavala on 20<sup>th</sup> May 2020 ID:JZ9CD0-CE000023
- Participated in One Week Webinar Series On Digi-Tech Teaching Learning- 2020 (MAY 18-22, 2020)- Future Effective Learning Techniques organized by Sinhgad Institute of Technology, Lonavala on 21<sup>st</sup> May 2020 ID: MQPFTQ-CE000046

- Participated in One-day National online Seminar on “Research Writing and Enhancing Visibility organized by Ramnarain Ruia Autonomous College, Mumbai on 21<sup>st</sup> May 2020
- Participated in One Week Webinar Series On Digi-Tech Teaching Learning- 2020 (MAY 18-22, 2020)- Career Oriented Teaching Learning organized by Sinhgad Institute of Technology, Lonavala on 22<sup>nd</sup> May 2020 ID: MMSI8U-CE000036
- Participated in Webinar on Effective Research Writing Skill and Publication organized by Shri. Chhatrapati Shivajiraje College of Engineering Dhangawadi, Pune on 22<sup>nd</sup> May 2020 ID: 5LKLZI-CE000343
- Participated in One day webinar on University Guidelines : Examinations and Promotions in view of Covid-19 Pandemic organized by Ramanand Arya D.A.V. College and University of Mumbai on 23<sup>rd</sup> May 2020
- Participated in National webinar on " सेवा पुस्तक व सेवा विषयक बाबी "organized by Joseph Mahavidyalaya, Satpala Virar on 25<sup>th</sup> May 2020
- Participated in Two days Online National Seminar on Recent Research Trends in Mathematics organized by Dept. of Mathematics, Auxilium College, Vellore, Tamilnadu from 28<sup>th</sup> to 29<sup>th</sup> May 2020
- Participated in Webinar on Graphs In Life organized by Department of Mathematics, Don Bosco College of Arts and Science, Keela Eral, Thoothukudi on 29<sup>th</sup> May 2020
- Participated in Webinar on Memories and a lecture tribute to Professor S. S. Shrikhande organized by Department of Mathematics, University of Mumbai on 29<sup>th</sup> May 2020
- Participated in Multidisciplinary International conference on Health Hygiene and Higher Education organized by S. R. M. college, Kudal on 30<sup>th</sup> May 2020
- Participated in Three days National Level Webinar on WORLD OF MATHEMATICS organized by N. G. Acharya and D. K. Marathe College of Arts, Science, Chembur, Mumbai from 1<sup>st</sup> to 3<sup>rd</sup> June 2020
- Participated in One Week Webinar Series On IT - Business Applications Web-Bizz 2020 (June 2 - 6, 2020) Quick and Easy Web Development organized by Sinhgad Institute of Technology, Lonavala, India on 2<sup>nd</sup> June 2020 ID: AQ05CW-CE000011
- Participated in One Week Webinar Series On IT - Business Applications Web-Bizz 2020 (June 2 - 6, 2020) Financial Gain from IT Business Applications organized by Sinhgad Institute of Technology, Lonavala, India on 3<sup>rd</sup> June 2020 ID: S16I0I-CE000073
- Participated in One Day Webinar on Certain Applications of Graph Theory organized by St.Thomas College of Arts and Science Koyambedu, Chennai on 4<sup>th</sup> June 2020

- Participated in One Week Webinar Series On IT - Business Applications Web-Bizz 2020 (June 2 - 6, 2020) E –Commerce Business Applications organized by Sinhgad Institute of Technology, Lonavala, India on 4<sup>th</sup> June 2020 ID: 4LKMF8-CE000035
- Participated in One Week Webinar Series On IT - Business Applications Web-Bizz 2020 (June 2 - 6, 2020) Entrepreneurship Opportunities in IT Business Applications organized by Sinhgad Institute of Technology, Lonavala, India on 5<sup>th</sup> June 2020 ID: 885OTM-CE000012
- Participated in One day International Webinar on Post-Covid-19 Educational Scenario: Prospects and Challenges organized by School of education Garhwal University and MIT Rishikesh Uttrakhand [Under \(PMMMNMTT\)](#) on 6<sup>th</sup> June 2020 ID: KDKNH4-CE000147
- Participated in One Week Webinar Series On IT - Business Applications Web-Bizz 2020 (June 2 - 6, 2020) Cyber Security Threats to IT & Business Applications organized by Sinhgad Institute of Technology, Lonavala, India on 6<sup>th</sup> June 2020 ID: UJMQUU-CE000074
- Participated in Webinar on Careers in Mathematics organized by R. K. Talreja College of Arts, Science & Commerce, Ulhasnagar on 6<sup>th</sup> June 2020
- Participated in Two Days National Webinar on Implementation of Roster and CAS organized by Siddharth College of Arts, Science and Commerce Fort Mumbai from 6<sup>th</sup> to 7<sup>th</sup> June 2020
- Participated in Webinar on Similarity Measure in Fuzzy Numbers and its Applications organized by Dr. N.G.P. Institute of Technology Coimbatore on 13<sup>th</sup> June 2020
- Participated in One Day National Level Web Seminar on “Recent Trends in Applied Mathematics organized by Arts, Commerce and Science College, Lanja on 13<sup>th</sup> June 2020
- Participated in One Day Webinar on How to Create Course and Course Activities in Open Source Online Learning organized by Hindu College Guntur on 14<sup>th</sup> June 2020 ID: LK7U7C-CE000115
- Participated in One Day Webinar on GRAPH EMBEDDING organized by Don Bosco College of Arts and Science, Keela Eral, Thooththukkudi on 16<sup>th</sup> June 2020 ID: DPOZFI-CE000785
- Participated in National Webinar on topic Recent Trends in Computational Mathematics and It’s Applications organized by SGTB Khalsa College Jabalpur from 17<sup>th</sup> to 18<sup>th</sup> June 2020
- Participated in National Webinar on Technology-enabled Higher Education in India: Opportunities and Challenges organized by Mathematics Department, Daulat Ram College, Delhi on 19<sup>th</sup> June 2020 ID: YD61WM-CE000115

- Participated in three days National webinar on Recent Trends in Graph Theory organized by P.G. & Research Department of Mathematics Government Arts College, Paramakudi from 22<sup>nd</sup> to 24<sup>th</sup> June 2020
- Participated in National Webinar on Continued Fractions: Providing Best Rational Approximations since antiquity organized by Sir Sitaram and Lady Shantabai Patkar College of Arts and Science and V.P. Varde College of Commerce and Economics, Mumbai on 24<sup>th</sup> June 2020
- Participated in Three days Online webinar on Mathematica and Applications of Mathematics organized by Department of Applied Sciences, Mathematics and Humanities Pillai College of Engineering, New Panvel from 27<sup>th</sup> June to 29<sup>th</sup> June 2020.
- Participated in a Webinar on Python NumPy with Jupyter notebook for Beginners organized by Malla Reddy Institute of Technology and Science Secunderbad on 6<sup>th</sup> July 2020 ID DTG3T4-CE000188
- Participated in a National Level Webinar Digital Transformation : eClassrooms & LMS organized by Shri. Surupsing Hirya Naik College of Education Navapur, Dist. Nandurbar in partnership with DigitalEdu IT solution Pvt Ltd on 7<sup>th</sup> July 2020 No. 2020/ SSHN/998
- Participated in International Webinar on Post CPVID effects and challenges on the Field of educations organized by Susana Methodist Girs B.Ed. College, Shrinagar on 7<sup>th</sup> and 8<sup>th</sup> July 2020
- Participated in One Day Webinar on Total Labeling in Graphs organized by Thiagarajar college of Engineering, Madurai on 8<sup>th</sup> July 2020
- Participated in one day webinar on Soft Computing by Soft Sets organized by Don Bosco College of Arts and Science, Keela Eral on 10<sup>th</sup> July 2020
- Participated in One day National Webinar on ICT Enabled Higher Education In India organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC) of [MHRD under PMMMNMTT](#) scheme and S. D. College, Ambala on 13<sup>th</sup> June 2020 ID-GAD-TLC/2020-21/WB25/1536
- Participated in one day webinar entitled 'Towards Excellence in Higher Education in India in 21<sup>st</sup> Century' organized by Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology Jalandhar on 15<sup>th</sup> July 2020
- Participated in One Day Webinar on Exploring Graph Theory Applications with GRIN (GRAPH INTERFACE) Software organized by Math Club, Department of Mathematics, Thiagarajar College of Engineering, Madurai on 15<sup>th</sup> July 2020

- Participated in National Level Webinar on Spectral Graph Theory: A Brief Introduction organized by St. Joseph's Institute of Technology, Chennai on 20<sup>th</sup> July 2020
- Participated in International webinar series on Unlock Knowledge 2020 - Recent Trends and its Applications organized by Department of Computer Engineering, Sinhgad Institute of Technology, Lonavala from 20<sup>th</sup> to 25<sup>th</sup> July 2020
- Participated in National Webinar on Novel Methods of Teaching and Learning organized by KLE Society's Science and Commerce College Kalamboli, Navi Mumbai on 25<sup>th</sup> July 2020
- Participated in National Webinar on Advances in Mathematics organized by Shrikrishna Mahavidyalaya, Gunjoti, Osmanabad from 20<sup>th</sup> to 25<sup>th</sup> July 2020
- Participated in National Level Webinar on Mathematics for Competitive Examinations: Scope, Structure and Approach organized by M.L. Dahanukar College of Commerce Vile Parle (E), Mumbai on 27<sup>th</sup> July 2020
- Participated in National Webinar on Quality Enhancement In Higher Education Through New Education Policy organized by Department of Economics, Hindu College, Guntur in Association with Indian Economic Association on 11th Aug 2020 ID: WYC1SI-CE000176
- Participated in International Webinar on Revisiting Human Rights, Ethics and Environment during COVID-19 organized by Center for Human Right Studies, Department of Environmental Studies, Teaching Learning Center [MHRD under PMMMNM](#) scheme Ramanujan College, Delhi from 6<sup>th</sup> to 7<sup>th</sup> August 2020 ID-RC/E-CERT/ETHI&EVS'C19/2020-0554
- Participated in International Conference on Graph Labeling and Applications ICGLA-2020 organized by Department of Mathematics, Goa University, Goa-India from 17<sup>th</sup> Sept to 19<sup>th</sup> Sept. 2020
- Participated in Improving Immunity with Ayurveda Against COVID-19 organized by Department of Botany Saraswati Mahavidyalaya Ambikapur Surguja (C.G.) on 17<sup>th</sup> Sept 2020
- Participated in RUSA-sponsored State Level webinar UGC's Career Advancement Scheme[CAS] organized by Patkar College of Arts and Science and V.P. Varde College of Commerce and Economics, Mumbai on 8<sup>th</sup> January 2021
- Participated in RUSA-sponsored State Level webinar Open Access e- resources organized by Patkar College of Arts and Science and V.P. Varde College of Commerce and Economics, Mumbai on 23<sup>rd</sup> January 2021

## **ONLINE COURSES –**

### **NPTEL**

- Completed online NPTEL 12 Week Course entitled Problem Solving through Programming in C from Indian Institute of Technology Kharagpur Roll No NPTEL20CS06S62100007 during Jan-April-2020

### **COURSERA**

- Completed online course entitled Introduction to Graph Theory an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: TBW8DEJ7H94Q on 24<sup>th</sup> August 2020
- Completed online course entitled Delivery Problem an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: UJZKKNNPXNHA on 25<sup>th</sup> August 2020
- Completed online course entitled Combinatorics and Probability an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: CCEVBTQG56Q4 on 26<sup>th</sup> August 2020
- Completed online course entitled AI For Everyone an online non-credit course authorized by deeplearning.ai and offered through Coursera from <https://www.coursera.org/> certificate ID: R7DUFWRWSQ4ZT on 26<sup>th</sup> August 2020
- Completed online course entitled Algorithms on Graphs an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: CSF29B8ZDWF7 on 27<sup>th</sup> August 2020
- Completed online course entitled Python Data Structures an online non-credit course authorized by University of Michigan and offered through Coursera from <https://www.coursera.org/> certificate ID: V7TJA3QKJV96 on 28<sup>th</sup> August 2020
- Completed online course entitled Number Theory and Cryptography an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: 3NZS29CU3P28 on 30<sup>th</sup> August 2020
- Completed online course entitled Mathematical Thinking in Computer Science an online non-credit course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: FJEKDHHX493Q on 30<sup>th</sup> August 2020



- Completed online course entitled Introduction to Discrete Mathematics for Computer Science the online, non-credit Specialization course authorized by University of California San Diego and National Research University Higher School of Economics and offered through Coursera from <https://www.coursera.org/> certificate ID: 2QZ3QRTM9QED on 30<sup>th</sup> August 2020
- Completed online course entitled Programming for Everybody (Getting Started with Python) an online non-credit course authorized by University of Michigan and offered through Coursera from <https://www.coursera.org/> certificate ID: FD93SKCZCFMY on 4<sup>th</sup> Sept 2020
- Completed online course entitled Java Programming: Arrays, Lists, and Structured Data an online non-credit course authorized by Duke University and offered through Coursera from <https://www.coursera.org/> certificate ID: 646CSEFK3BWD on 4<sup>th</sup> October 2020
- Completed online course entitled Introduction to Data Science in Python an online non-credit course authorized by University of Michigan and offered through Coursera from <https://www.coursera.org/> certificate ID: 52EL6RG RRM 8J on 8<sup>th</sup> October 2020
- Completed online course entitled Mathematics for Machine Learning: Linear Algebra an online non-credit course authorized by Imperial College London and offered through Coursera from <https://www.coursera.org/> certificate ID: 4H BZ9D 7M Z2XP on 18<sup>th</sup> October 2020
- Completed online course entitled Mathematics for Machine Learning: Multivariate Calculus an online non-credit course authorized by Imperial College London and offered through Coursera from <https://www.coursera.org/> certificate ID: 6U PBU VFS ZPT 5 on 19<sup>th</sup> October 2020
- Completed online course entitled Applied Social Network Analysis in Python an online non-credit course authorized by University of Michigan and offered through Coursera from <https://www.coursera.org/> certificate ID: 73BL6VA JW EB2 on 25<sup>th</sup> October 2020
- Completed online course entitled Introduction to Python an online non-credit course authorized by Coursera Project Network and offered through Coursera from <https://www.coursera.org/> certificate ID: R98H 53LG 47AY on 26<sup>th</sup> October 2020
- Completed online course entitled Introduction to Relational Database and SQL an online non-credit course authorized by Coursera Project Network and offered through Coursera from <https://www.coursera.org/> certificate ID: SSB82TCTEDJ3 on 26<sup>th</sup> October 2020

- Completed online course entitled Effective Problem-Solving and Decision-Making an online non-credit course authorized by University of California, Irvine and offered through Coursera from <https://www.coursera.org/> certificate ID: B2GJBBGRERTS on 30<sup>th</sup> October 2020
- Completed online course entitled Data Science Math Skills an online non-credit course authorized by Duke University and offered through Coursera from <https://www.coursera.org/> certificate ID: P3LKMNFB RBZE on 31<sup>st</sup> October 2020
- Completed online course entitled Python and Statistics for Financial Analysis an online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera from <https://www.coursera.org/> certificate ID: 2ZK8KEPLNFH7 on 1<sup>st</sup> November 2020
- Completed online course entitled Crash Course on Python an online non-credit course authorized by Google and offered through Coursera from <https://www.coursera.org/> certificate ID: GLNRV6K3E5P4 on 29<sup>th</sup> November 2020

#### **UDEMY & BIT-DEGREE**

- Completed online course entitled Graph Theory from <https://www.udemy.com/> certificate ID: UC-d7c3fb3c-8103-4167-8264-a8ba6f8e0616 on 18<sup>th</sup> April 2020
- Completed online course entitled Learn Basic Algebra Online: Algebra Lessons for Beginners from <https://www.bitdegree.org> certificate ID: 2651075 on 18<sup>th</sup> April 2020
- Completed online course entitled Introduction to Python: Master Python Basics in Only 2 Hours from <https://www.bitdegree.org> certificate ID: 2414545 on 18<sup>th</sup> April 2020
- Completed online course entitled Absolute Guide: Linux Tutorial for Beginners from <https://www.bitdegree.org> certificate ID: 2651116 on 19<sup>th</sup> April 2020
- Completed online course entitled Python Crash Course from <https://www.udemy.com/> certificate ID: UC-cd64fa92-1c03-4860-a9cc-a9390624a7e6 on 20<sup>th</sup> April 2020
- Completed online course entitled Measures & Schools Response to COVID-19 Pandemic from <https://www.udemy.com/> certificate ID: UC-78fb6986-6497-4aa1-8bdd-b191bf2659ad on 21<sup>st</sup> April 2020
- Completed online course entitled Learn Google Form from <https://www.udemy.com/> certificate ID: UC-6ebcb65f-3be4-4368-9421-e584bbfa2dd2 on 23<sup>rd</sup> April 2020
- Completed online course entitled Learn How to Build a WordPress Website Without Coding from <https://www.bitdegree.org> certificate ID: 2652035 on 24<sup>th</sup> April 2020
- Completed online course entitled Tools for Working From Home - Google Apps, Trello & Zoom from <https://www.udemy.com/> certificate ID: UC-20b6b858-5066-41a4-8295-8cde2d e5809d on 26<sup>th</sup> April 2020

- Completed online course entitled Introduction to Basic Video Creation from <https://www.udemy.com/> certificate ID: UC-fa4a29c6-1d0e-47aa-a0c3-9973c141ee1a on 28<sup>th</sup> April 2020
- Completed online course entitled Google suit and Online Teaching from <https://www.udemy.com/> certificate ID: UC-fd68d674-df9d-45cd-ac8b-e1a122801283 on 3<sup>rd</sup> May 2020
- Completed online course entitled Python Basics from <https://www.udemy.com/> certificate ID: UC-21d06620-a1da-4d6a-8b22-42558e6c1988 on 7<sup>th</sup> May 2020
- Completed online course entitled Remote Teaching Online // How to record a lecture at home from <https://www.udemy.com/> certificate ID: UC-40b5a5e7-edbb-4206-95fe-cc464482d87d on 17<sup>th</sup> July 2020
- Completed online course entitled Complete Guide to YouTube Channel and YouTube Masterclass from <https://www.udemy.com/> certificate ID: UC-2875415c-a69d-4207-92f4-2a9814f3301b on 23<sup>rd</sup> August 2020
- Completed online course entitled Innovation in School Education Through Remote Learning from <https://www.udemy.com/> certificate ID: UC-feeacebc-c708-4b54-a6e3-0698f3b7b209 23<sup>rd</sup> August 2020
- Completed online course entitled WordPress for Beginners Create Unlimited Websites for free from <https://www.udemy.com/> certificate ID: UC-c0322dd2-f61d-4aff-8601-9fc34d7c2124 on 10<sup>th</sup> December 2020
- Completed online course entitled Neural Network in Python - Deep Learning for Beginners from <https://www.udemy.com/> certificate ID: UC-d6e2e60b-db39-4522-8142-cd0ad4f7f169 on 21<sup>st</sup> January 2021
- Completed online course entitled Statistics with R - Beginner Level from <https://www.udemy.com/> certificate ID: UC-f3ad7b00-4d65-4c5e-a10c-25eef40ad483 on 30<sup>th</sup> January 2021
- Completed online course entitled Python Certification Course from <https://www.udemy.com/> certificate ID: UC-99fb0e78-acc9-4cd6-ac51-b0aead8489f9 on 30<sup>th</sup> January 2021
- Completed online course entitled The Python 3 Course - from <https://www.udemy.com/> certificate ID: Learn UC-43a2d7d1-ddb4-4ec4-8e98-3dad0bf0cb1b on 1<sup>st</sup> February 2021
- Completed online course entitled The Complete Python 3 course - Beginners to Advance from <https://www.udemy.com/> certificate ID: UC-ea276b3e-cb36-42a1-8eca-4bf0150a8068 on 4<sup>th</sup> February 2021

- Completed online course entitled Python programming for Beginners in Data Science from <https://www.udemy.com/> certificate ID: UC-aeb99e91-f001-43cc-b126-ee1d9612a267 on 5<sup>th</sup> February 2021
- Completed online course entitled The Complete Python Course- Go From Beginner To Advanced from <https://www.udemy.com/> certificate ID: UC-ba87eb7f-0a45-4c20-9f4c-ae8b7028b84f on 8<sup>th</sup> February 2021
- Completed online course entitled from <https://www.udemy.com/> certificate ID: on 23<sup>rd</sup> August 2020
- Completed online course entitled from <https://www.udemy.com/> certificate ID: on 23<sup>rd</sup> August 2020

#### **B) Examination Work**

- Moderator for Mathematics at F.Y.B.Sc/ S.Y.B.Sc. &Mathematical and Statistical Technique F.Y.B.Com. Examinations.
- Moderator for Computer Systems and Applications at T.Y.B.Com. examination
- Paper Setter and Moderator for T.Y.B.Sc (Sem-V/VI) Applied Component – Computer Prog.& System Analysis papers of Mumbai University Examination
- Paper Setter & Moderator for T.Y.B.Sc (Sem-V/VI) papers of Mumbai University Examination.
- Paper Setter & Examiner for T.Y.B.Sc (Sem-V/VI & OLD Practicals) of Mumbai University Examination
- Paper Setter & Examiner, Moderator for M.Sc-I & II (Sem-I/III/IV) of Mumbai University Examination
- Paper Setter for M.Sc-I of K.B.P. College, Vashi ( Autonomous College), Mumbai University
- Paper Setter for S.Y.B.Sc- Semester – III Mathematics-II of Athalye Sapre Pitre Autonomous College, Devrukh

#### **C) Participation in University Level Committee-**

- Member of T.Y.B.Sc. Syllabus drafting committee of Mumbai University.
- Member of F.Y.B.A./B.Sc. Syllabus Revision committee of Mumbai University
- Member of S.Y.B.A./B.Sc. Syllabus Revision committee of Mumbai University

#### **D) Add-on Courses-**

- Organized and conducted a skill development add-on course on “Report writing using LATEX” for M.Sc-II students for preparing project report in Mathematics from 1st Feb. 2019 to 30th April 2019

### **E) Other Contribution**

- Worked as an Examiner for Inspire Award Competition at District Level conducted by Central Government of India.
- Delivered a guest lecture on Computer Applications in Mathematics at Arts, Commerce and Science college, Lanja
- Delivered a Guest lecture on Computer Systems & Applications at Arts, Commerce and Science College, Vaibhavwadi
- Subject expert in Mathematics for selection committee at Oros college, Oros.
- Subject expert in Mathematics of Management Nominee for University selection committee at Anandibai Raorane College, Vaibhavwadi
- Subject expert in Mathematics of Management Nominee for University selection committee at Shri. Pancham Khemraj College, Sawantwadi
- Delivered a guest lecture on 'MOOCs and Career with computer applications in Commerce' at Br. B. K. College, Vengurla

### **F) Participation in College Committees & Extra-Curricular Activities**

- Counselor at Y.C.M.O.U.
- Convener – Web Site Design and Maintenance Committee
- Library Committee, Member
- Admission Committee, Member
- Member, Student Evaluation and Examination Committee (College Level)
- Member, University Examination Committee (University Level)
- Member, UGC Schemes
- Local BUCTU Unit- Treasurer
- IT- Coordinator for DPED (Digital Printing Electronic Delivery) examination system conducted by Mumbai University.
- Nodal officer – DHE-MIS, AISHE