

BIODATA

Dr. Sujata Uday Tapare

Sapeksha, 44/4/21, Yamunanagar, Nigdi, Pune 411044

Designation: Associate Professor in Mathematics

Educational Qualification: M. Sc. SET, Ph. D.

Teaching Experience: Worked at Ramkrishna More Arts, Commerce and Science College, Akurdi, Pune full time lecturer from 12th August 1996 to till date. **22 years**

Classes Taught: FYBSC, SYBSC, TYBSC

Faculty development programmes (Orientation/ Refresher/ Short term courses):

Sr. No.	Refresher	Orientation
	5	1

Research Area: Mathematics

Research Projects:

Sr. No.	Name of the project	Funded by	Amount	Status
1.	Significance of fractional order forces in real physical systems	UGC	25,000	Completed
2.	Investigation of Computer based Teaching methods in Mathematics for classroom teaching	University of Pune	1,00,000	Ongoing

Research Articles published In Journals:

1. **Investigation of conceptual understanding of undergraduate students regarding to function and its various representations**, International J. of Math. Sci. & Engg. Appls. (IJMSEA), ISSN 0973-9424, Vol. 5 No. III (May, 2011), pp. 297-309
2. **Investigation of difficulties in learning limit and continuity of functions by conventional teaching method**, *Shikshanateel Marmadrishti* ISSN 0976-0385 Vol. 4 No. III (Oct, 2012), pp. 55-59
3. **Teaching & Learning of limit and continuity of Functions by using Calculus Education Software**, *Shikshanateel Marmadrishti* ISSN 0976-0385 Vol. 4 No. IV (Jan, 2013), pp.
4. **Teaching and Learning the Function Concept and Its Various Representations Using Calculus Education Software (CES)**, *IJAMP*, ISSN: 0974-8059 Vol. 4, No. 2, July-December 2013, pp. 83-91
5. **Effectiveness of Conceptual understanding of Continuity using CES in Cooperative Learning**, *Bulletin of the Marathwada Mathematical Society* ISSN 0976-6049 Vol. 2 No. 2, 2014, pp. 97-105

Paper presented in International Conference:

1. Paper presented in 'The Sixth International Conference of MIT's Learning International Networks Consortium (LINC)-2013' **Massachusetts Institute of Technology (MIT), Boston USA**, 16/06/2013 to 19/6/2013 **entitled, Conceptual Understanding of Undergraduate students of Calculus in Cooperative learning using CES**

Paper presented in National/ State/ University level Conference:

1. Paper presented in National Conference on Challenges and Opportunities in Higher Education On 30th Nov 2011.
2. Paper presented in National Conference on Recent trends of Mathematics and Statistics, Yashavantrao Mohite College, Bharati Vidyapeeth, 18/12/2012, **A Sensible Approach to Function Concept using Calculus Education Software (CES)**
3. Paper presented in National Conference on Recent Developments in Mathematics and Statistics, Tulajaram Chaturchand College, Baramati, 14/02/2013 to 16/2/2013 **entitled Effectiveness of Conceptual understanding of Continuity of Functions using Calculus Education Software in Cooperative Learning**
4. Paper presented in National Conference on Computing, Communication and Information Technology, Yashavantrao Mohite College, Bharati Vidyapeeth, 5/2/2013 and 6/2/2013 **entitled, Investigation of Effect of Calculus Education Software (CES) on Conceptual Understanding of Limit & Continuity of Functions**
5. Paper presented in 'The Sixth International Conference of MIT's Learning International Networks Consortium (LINC)-2013' **Massachusetts Institute of Technology (MIT), Boston**

USA, 16/06/2013 to 19/6/2013 entitled, Conceptual Understanding of Undergraduate students of Calculus in Cooperative learning using CES

Awards/Honours:

S.No Name of Award Awarding Agency Year

1. Teacher Fellowship awarded by UGC for year 2010-2012

Books Published:

1. **Mathematics for Biologists;** Vision Publications, Pune.
2. **Calculus** (For General B.Sc.); Vision Publications, Pune.
3. **ALL IN ONE Series Mathematics and Statistics Paper-I** (for H.S.C. Board + CET); Nirali Publications, Pune
4. **ALL IN ONE Series Mathematics and Statistics Paper-II** (for H.S.C. Board + CET); Nirali Publications Pune

Innovations in Curriculum design and transactions:

Resource Person:

Seminars/Workshops/ Training courses attended:

1. Participated in Avishkar- 2012, Zonal level research project competition 12/12/2012
2. Participated in Avishkar- 2012, University level research project competition 26/12/2012

Participation in community/ Social Services:

Memberships on various bodies:

Computer Skills:

Ms Office, C language, Latex, Mathematical softwares