

# Department of Mathematics and Statistics

ONE IMPORTANT LESSON IN  
**MATH**  
THAT WE CAN ALL APPLY IN OUR LIVES  
**ALWAYS BE CAREFUL  
WITH THE SIGNS.**

The department of Mathematics & Statistics constantly makes efforts to help students academically. The department faces the challenge at both FYBCom and TYBCom levels in subjects of Mathematics and Computer Systems & Applications respectively with regards to imbalance of subject knowledge of students. But the members of the department strive to make the subject achievable for students by revision lectures and hands on practical sessions for FYBCom and TYBCom students respectively. The young members of the department gave their best to the departmental activities and fully cooperated with the work assigned to them. I take this opportunity to thank my members for their contribution to smooth functioning of the department.

## Academic Activities

**Preliminary examination :** As our practice, the department conducted Preliminary examination of 75 marks for TYBCom students to provide them with practice for Semester V and Semester VI University examinations. Semester V and VI mock preliminary examinations were conducted for TYBCom students for practice purpose.

**Revision lectures and extra lectures:** Revision lectures for Semester V and VI were held for TYBCom students in subject of Computer Systems and Applications. The students were posted with notes and other instructions on Yahoo group. Ms. S. A. Mandavawalla delivered a special lecture to TYBCom students in the subject of Computer Systems and Applications on 29th Feb 2016.

## Faculty Pursuits

### Dr. N. N. Pandey

- Was appointed by Vice Chancellor of the University of Mumbai as the member of the Perspective Plan Committee for the academic year 2017-18 on 19th September 2017.
- Presented a paper titled 'Quality Assessment of PG Courses using Evaluation Data by Student Population' at the 37th Annual Conference of IASP, held at IEG, Delhi University, Delhi. On 7th & 9th December 2016.
- Appointed as Subject Expert on the Committee that examined the PhD Defence of a candidate in the subject of Mathematics by Veer Bhadur Singh Purvanchal Vishwavidhyalaya, Jaunpur on 20th July 2016.
- Was invited for a discussion with the UGC Vice - Chairman – Dr. Devraj at the seminar on 'Reforms in Higher Education' organised by Nagindas Khandwala College, Malad on 23rd May 2016.
- Was invited as a Vice Chancellor's nominee in the scrutiny committee to scrutinize the applications received for the post of Principal in Hindi Prachar Samiti's Ramniranjan Jhunjhunwala College on 19th November 2016.
- Was nominated as the Vice Chancellor's Nominee on the Expert Committee for Career Advancement Scheme at Maharshi Dayanand College of Arts, Science & Commerce, Parel on 8th September 2016.
- Invited as Chief Guest at a felicitation programme organized by Sahitya Sangam Sanstha and I. B. Patel Hindi School, Goregaon, Mumbai on 1st January 2017.
- Was appointed as a Convener of the Expert Committee for scrutinizing the proposal of Nirmal Education Society's Nirmal Degree College of Commerce for starting of New Additional division/New Subject on 6th January 2017.
- Invited as member on the Screening cum Evaluation Committee constituted for Career Advance Scheme for making recommendations to the Governing Body of KES College for promotion of Teacher from Assistant Professor Stage-I to Assistant Professor Stage-2 in the subject of Mathematics & Statistics on 1st February 2017.
- Invited as the Chief guest of the Valedictory Function at the One day National Seminar on 'Demonetization: Prospectus and Problem' organized by Lord's College of Commerce and Economics on 10th February 2017.

Good mathematics is  
not about how many  
answers you know...  
It's how you behave  
when you don't know.  
~Author unknown

### Dr. N. N. Pandey & Dr. J. P. Yadav

A research paper titled 'On certain transformations of basic hypergeometric function using Bailey's transform' is accepted for publication in the special issue of the Journal of Ramanujan Society of Mathematics & Mathematical Sciences which is dedicated to Prof. K. Srinivasa Rao.

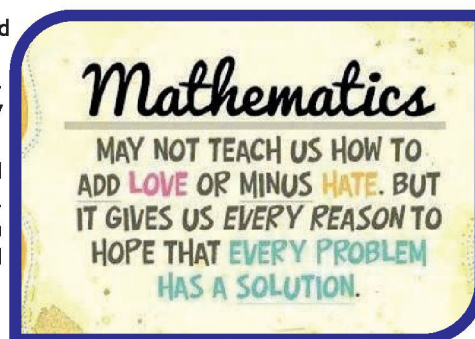
### Dr. Swati Desai

- Invited to chair the session of Paper Presentation at the International Seminar on 'Global Opportunities in the Context of Digital Era for Sustainable Indian Economy' organised by Vidya Niketan College Ghatkopar on 5th March 2017.
- Participated in University workshop on 'Digital India' organised by Ministry of Electronics and Information Technology, Government of India held at University of Mumbai on 24th August, 2016.
- Participated in the University Orientation Workshop on 'Revised Syllabus & Question Paper Pattern' organised by the University of Mumbai on 22nd July 2017.
- Research Paper titled 'Application of Decision Tree Analysis in Business in Business Intelligence' was published in *Entire Research Multi-Disciplinary International Research Journal* (Indexed and Peer Reviewed) March 2017 Special Issue Vol-I pp 43-49 bearing ISSN 0975-5020.
- Research Paper titled 'Tourism in the Green Economy of Asia' was published in *Entire Research Multi-Disciplinary International Research Journal* (Indexed and Peer Reviewed) Vol 8, Issue-IV November 2016, pp 69-71 bearing ISSN 0975-5020.
- Research Paper titled 'Impact of Technology Based learning Approach on Higher Secondary School Students' Performance in Mathematics'



was published in *Entire Research Multi-Disciplinary International Research Journal* (Indexed and Peer Reviewed Vol 8, Issue-IV November 2016, pp 63-68 bearing ISSN 0975-5020).

- Research Paper titled 'Women and Health through Yoga' was published in *Entire Research Multi-Disciplinary International Research Journal* (Indexed and Peer Reviewed) Vol 8, Issue-IV November 2016, pp 40-43 bearing ISSN 0975-5020.
- Co-authored a textbook titled *Research Methodology for Business* for MCom Semester II (Mumbai University) published by Himalaya Publishing House bearing ISBN 978-93-5262-678-6.
- Was a Resource Person on 'Plagiarism, Impact Factor' at a seminar / conference on 'Research Methodology & Curriculum Development in Physical Education and Workshop on Traditional Games of India' organised by the Department of Physical Education University of Mumbai from 22nd to 24th March 2017.
- Was a Resource Person on the topic 'Research Methodology' at the State level Workshop on Research Methodology organised by School of Educational Sciences Swami Ramanand Teerth Marathwada University, Nanded, on 24th January 2017.
- Was a Resource Person for the Plenary Session on 'Statistical Techniques/Tools used in Research Management and Yogic Science' at the International Conference on 'Contemporary Research, Management in Physical Education and Yogic Science' organised by the Global Human Research & Welfare Society on 9th and 10th October 2016 at Bangkok.
- Was invited to chair the session on Paper presentation at the National Seminar / Conference on 'Role for Research for Sustainable Development' organised by Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu on 3rd June 2016.



#### Dr. Jay Prakash Yadav

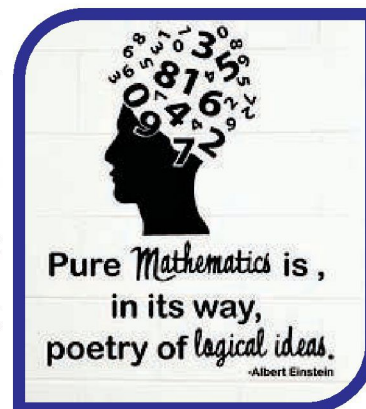
- Published a research paper titled 'Certain Transformation Formulas for Basic Hypergeometric Series' in the *Journal - South East Asian J. of Math. & Math. Sci.* Vol. 13, No. 1 2017, pp. 00-00 bearing ISSN : 0972-7752.
- Examined a Ph. D. thesis titled 'A Study in the Field of Basic Hypergeometric Series and Ramanujan's Modular Equations' in Mathematics of V.B.S. Purvanchal University, Jaunpur (U.P.).
- Two research scholars Ms. Vidhi Agarwal and Mr. Santosh Tiwari is doing Ph.D. under my supervision at Pacific University, Jaipur, Rajasthan.

#### Prof. Sandeep Gupta

- Published a research paper titled 'Innovative Application of Technology in Libraries' in a Conference Proceeding with ISBN: 978-81-926019-7-7.

#### Innovation

- The department also carried on with the innovative practice under the theme 'Uniformity'. This practice was adopted to track the teaching plan prepared at the start of the academic year. With the semester system in place, the teaching days are not enough to include revision and paper solution. Hence to ensure the syllabus is complete in time with the provision for revision this practice was planned and executed throughout the academic year. The purpose of this following this practice was also to ensure that all members in the department follow a uniform pattern of solving examples of various difficulty levels. The process of uniformity is yet to evolve to conclusive outcome, yet this exercise helped in tracking the teaching plan.
- The Department uploaded lectures on Mathematics & Statistics for FYBCom and Computer System & Applications for TYBCom students on YouTube Channel named "SAGARMOTI REVOLUTION" created by Prof. Sandeep S. Gupta.
- Mathematical & Statistical Techniques and Computer System & Applications lectures on Powerpoint Slides initiated by Prof. Swati A. Mandavawalla for FYBCom & TYBCom students is a contribution to eco-friendly theme – less paper use.
- The department also took measures to cut on paper use by displaying the tutorial sheets on notice board as well as solving in tutorial lectures.



#### Result Analysis for TYBCom Computer Systems & Application

- Passing percentage for Semester V held in the month of October 2016 is 95.74.
- The following are the toppers in the subject:

Rank	Name	Marks
1	Kamath Pratiksha Prakash Priyanka	100
2	Pai Udit Uday Vandana	97
3	Jain Pushti Hasmukh Babeeta	93



**Dr. N. N. Pandey**  
Principal - HOD