



Prahladrai Dalmia Lions College of Commerce & Economics

Sunder Nagar, S. V. Road, Malad (West), Mumbai – 400064.

ISO 9001:2015 Certified

Department of Mathematics and Statistics Report 2023 - 24

The Department of Mathematics & Statistics was started during the inception of the Institution. The Department of Mathematics & Statistics worked diligently to give its best to the institute and students. The department members gave their whole hearted support in the different institutional associations and committees. The Department has dedicated and sincere faculty members. One faculty member is a doctorate holder and Ph.D. guide. The department is equipped with a computer lab with the latest required softwares and internet connection in order to conduct the practicals.

Mission

To create awareness about the fundamental concepts and competency by providing the essential knowledge and skills, so as to be able to become competent and successful in the chosen profession.

Vision

To facilitate the students to be academicians.

Goals

Our main objective of the Department is to impart quality education to our students with best available facilities. It is our greatest objective to obtain consistent and excellent results that would serve as our resume.

I take this opportunity to thank my members for their contribution to the smooth functioning of the department. The young members of the department gave their best to the departmental activities and fully cooperated with the work assigned to them.

The department 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 during the online lectures of students. But the members of the department strive to make the subject achievable for students by using available LMS resources and taking revision lectures for FYBCOM and TYBCOM students.

Academic Activities:

- 1) The department conducted a practical examination of 25 marks as an internal assessment in the subject of Computer systems and Applications for TYBCOM students.
- 2) Dr. Jayprakash Yadav, Mr. Sandeep Gupta, Ms. Akshata Pawar, Mr. Aditya Mahyavanshi, Mr. Rohan Yadav and Ms. Savita Kuril took revision lectures for the students of FYBCOM.
- 3) Revision lectures for Semester V and VI were conducted for TYBCOM students in the subject of Computer Systems and Applications. The students were posted with notes and other instructional materials on their official WhatsApp groups.
- 5) The Department also conducts Bridge course for the students of F.Y.B.Com.(Mathematics and Statistics) and T.Y.B.Com.(Computer systems and Applications)
- 6) The department continued to conduct sessions on T.Y.B.Com University Paper Pattern and Solution in the subject of Computer Systems and Applications.
- 7) The Crash Course in the subject of Computer Systems and Applications for Semester V and semester VI were conducted by Dr. Jayprakash Yadav and Mr. Sandeep Gupta on 14th & 15th September 2022 and 13th & 15th of April 2023 respectively.
- 8) The department also organize a mathematics quiz Competition- Tricky Troupe 2022-23 on 17th February, 2023 at 10:30 am in the classroom F2 first Floor where
50 students participated in the quiz. winners of the quiz are Shubham Verma FYBCOM F, Gagan Parihar SYBCOM D and Dipesh Sawant TYBCOM B. They stood
1st, 2nd and 3rd respectively.
- 9) The department also organize a PDLCTrix 2023-24: An online quiz competition in
Computer on 25th March, 2023 at 10:30 am where 30 students participated in the
quiz.

Result Analysis:

1) FYBCOM (Sem-I &II) 2023-24: College Examination

Semester	Total	O	A+	A	B+	B	C	D	Fail	Pass	% ge
I	887	54	250	361	29	42	21	111	19	868	97.86
II	887	12	18	38	40	49	61	506	163	724	81.62

2) TYBCOM Sem V (2022-23): University Examination Computer Systems & Applications

Semester	Total	AB	Appeared	O	A+	A	B+	B	C	D	Fail	Pass	% ge
V	401	27	374	27	32	45	41	37	64	93	35	339	90.64

Subject Rankers:

Roll No.	Name of Students	Ranks	Marks
obtained			
A-110	Kadam Nishant Sanjay Chandrakala	1st	100
B -230	Padekar Harshada Prakash Vimal	2nd	97
C -441	Varma Sejal Rupesh Meena	3rd	96

Research and Extra-Curricular Activities:

The faculties are actively engaged in research activities. The department members are encouraged to attend National/International Conferences, workshops and seminars. They are also encouraged to publish research papers in peer reviewed National/International journals.

1. Dr. Jayprakash Yadav:

- i. **A Paper entitled “Role of Mathematical Model in Cloud Computing” has been published in** an International Journal of Mathematics and Computer Research, 2023, ISSN: 2320-7167, pp3740-3745.
- ii. **A Paper entitled “On Transformation of Basic Hypergeometric Functions applying Fractional q-Differential Operator” has been published in** South East Asian J. of Mathematics and Mathematical Sciences Vol. 19, No.3 (2023), pp 76-80.
- iii. **A Paper entitled “On Some Transformations and Summations of Basic Hypergeometric Series” has been published in** Indian Journal of Natural Sciences Vol. 14, Issue No. 81 (2023), pp70453-70456.
- iv. Invited as a speaker in an International Conference on Mathematics & Its Applications for the advancement of Computer Science and Technology, March 02-04,2024 at TDPG College, Jaunpur, U.P. The title of the talk was Certain transformations of generalized basic hypergeometric functions, q-polynomials by applying fractional integral operators.
- v. Presented a research paper entitled Certain q-Kober fractional integral operator of generalized basic hypergeometric functions and q-polynomials in an international

conference on New Thrust Areas in Mathematical Science, March 01-02, 2024 organized by Government Geetanjali Girls P.G.College, Bhopal, M.P.

vi. Participated in the Course for Preparation and Face NAAC Peer Team Visit and SSS. The course date: 17/05/2023 to 07/06/2023 organized by NAAC Cluster India.

vii. Participated in the Course for Preparation and Uploading NAAC Documents. The course date: 5th April 2023 to 27th April 2023 organized by NAAC Cluster India.

viii. Participated in a Webinar on Introduction to Actuarial Science - Scope & Opportunities organized by the Department of Mathematics & Statistics on 20th August 2023 at LALA LAJPATRAI COLLEGE OF COMMERCE AND ECONOMICS.

ix. Successfully organized & participated in Seven Days Online Faculty Development Programme on “Research in Humanities, Commerce & Management: Opportunities And Challenges” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from

Dt. 13/02/2024 to Dt. 19/02/2024 and has secured A Grade.

x. Successfully organized & participated in eight Days Online Faculty Development Programme on “Research: Methodology, Ethics and AI Tools” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from

Dt. 01/02/2024 to Dt. 08/02/2024..

2. Prof. Sandeep Gupta:

i. Successfully organized & participated in Seven Days Online Faculty Development Programme on “Research in Humanities, Commerce & Management: Opportunities and Challenges” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from

Dt. 13/02/2024 to Dt. 19/02/2024 and has secured A Grade.

ii. Successfully organized & participated in eight Days Online Faculty Development Programme on “Research: Methodology, Ethics and AI Tools” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from Dt. 01/02/2024 to Dt. 08/02/2024.

iii. A Paper entitled “Role of Mathematical Model in Cloud Computing” has been published in an International Journal of Mathematics and Computer Research, 2023, ISSN: 2320-7167, pp3740-3745.

3. Akshata Pawar :

- i. Worked as a member of Criterion 1 where entirely handled matrix 1.4 related to Curriculum Feedback along with other different Feedback formats and analysis.
- ii. I have worked as “Joint coordinator” in inter-collegiate fest “Dalmia Lions Utsav2023-24”, where 35 events were organized in different departments of Fine Arts, Performing Arts, Film Festival Management, Literary Arts.
- iii. Worked in TYBCom Exam Committee as a member, in which analyzed TYBComResult and prepared reports.
- iv. Worked as a member of the Feedback committee. were prepared feedback forms of Mentor Mentee, Teachers feedback, Parents feedback and feedback on curriculum. Also Analyzed above feedback.
- v. Worked in the Attendance Committee of SYBCom as member where prepared Consolidated Defaulter list using new ERP software for each month for academic year 2023-24.
- vi. Worked as a member of the Cultural Committee, which sent students for various events organized by different colleges.
- vii. Worked as a member of the Women Development Cell, which celebrated Women's Day in association with Lions club.
- viii. Worked in the Website Development Committee as a member.
- ix. Actively participated in a eight days Faculty Development Program on “ResearchMethodology, Ethics and AI tools” organized by Faculty Development Cell, Research Centre and IQAC.
- x. Actively participated in a eight days Faculty Development Program on ““Research in Humanities, Commerce & Management: Opportunities and Challenges“ organized by IQAC.
- xi. Went as a subject expert and Moderator to Ghanshyamdas Saraf College to moderate FYBSc (I.T) papers.

4. Aditya mahyavanshi:

- i. Successfully organized & participated in Seven Days Online Faculty DevelopmentProgramme on “Research in Humanities, Commerce & Management: Opportunities And Challenges“ organized under the aegis of IQAC of the College in association withInstitute of Advanced Studies in English, Pune & Research Foundation of India, from

Dt. 13/02/2024 to Dt. 19/02/2024 and has secured A Grade.

ii. Successfully organized & participated in eight Days Online Faculty Development Programme on “Research: Methodology, Ethics and AI Tools” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from Dt. 01/02/2024 to Dt. 08/02/2024..

5. Rohan Yadav:

i. Successfully organized & participated in Seven Days Online Faculty Development Programme on “Research in Humanities, Commerce & Management: Opportunities And Challenges” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from

Dt. 13/02/2024 to Dt. 19/02/2024 and has secured A Grade.

ii. Successfully organized & participated in eight Days Online Faculty Development Programme on “Research: Methodology, Ethics and AI Tools” organized under the aegis of IQAC of the College in association with Institute of Advanced Studies in English, Pune & Research Foundation of India, from Dt. 01/02/2024 to Dt. 08/02/2024.

6. Ms. Savita Kuril

1. Eight Days Online Faculty Development Programme on Research: Methodology,

Ethics & AI Tools organized by the Faculty Development Cell, Research

Center & IQAC of the Prahladrai Dalmia Lions College

2. Seven Days Online Faculty Development Programme on “Research in Humanities, Commerce & Management: Opportunities and Challenges.

7. Contribution to Eco-friendly Theme:

The department also took measures to cut on paper use by sharing soft copies of the tutorials and Lecture notes on Google Classroom.



Dr. Jayprakash Yadav
HOD, Mathematics & Statistics