

DEPARTMENTAL REPORT PROFORMA

Report for the Department of Mathematics Year 2019 – 2020

1. Name of the Teacher Incharge of the Department: **Dr. Anu Saxena**
2. Attendance 2019 – 2020

Teacher	Class	No. and Topic of Paper	Remarks
Dr. Alka Marwaha	B.Sc. (H) Mathematics - Sem III (July-Nov 2019)	C7-Multivariate Calculus	Sharing with Ms. Rama Saxena
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	C-11 METRIC SPACES	
	B.El.Ed (July-Nov 2019)	Mathematics-I	Sharing with Ms. Richa Krishna
	B.Sc.(H) Mathematics - Sem IV (Jan-May 20)	Riemann Integration & Series of functions	
	B.Sc(H) Mathematics - Sem VI (Jan-May 20)	Complex Analysis (Including Practical)	
Dr. Anu Ahuja	B.Sc. (H) Mathematics - Sem III (July-Nov 2019)	C6- Group Theory- I	Sharing with Dr. Indrakshi Dutta
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	C-12GROUP THEORY-II	
	BA (P) - Sem III (July-Nov 2019)	SEC-1: Mathematical Typesetting System: Latex	
	BSC(H) Mathematics - Sem IV (Jan-May 20)	RING THEORY AND LINEAR ALGEBRA -1	Sharing with Dr. Indrakshi Dutta
	BSC(H) MATHS- Sem VI (Jan-May 20)	LINEAR PROGRAMMING AND THEORY OF GAMES	

	BA(PROG) - Sem VI (Jan-May 20)	TRANSPORTATION AND NETWORK FLOW PROBLEMS	
Ms. Rama Saxena	B.Sc(H) Mathematics – Sem I (July- Nov 2019)	BMATH 102- ALGEBRA	Sharing with Dr. Rashmi
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	C-11 METRIC SPACES	Sharing with Dr. Alka Marwaha
	GE-I (July-May 2019)	Calculus	Sharing with Dr. Shikha
	B.El.Ed- 3 rd Year (July-Nov 2019)	Mathematics II	
	(Jan-May 20)		CCL
Ms. Richa Krishna	B.Sc. (H) Mathematics - Sem III (July-Nov2019)	C5-THEORY OF REAL FUNCTIONS	
	BA (P) - Sem V (July-Nov 2019)	DIFFERENTIAL EQUATIONS	
	B.Sc. (H) Mathematics - Sem II (Jan-May 20)	Real Analysis	Sharing with Ms. Sunita Narain
	B.Sc(H) Mathematics - Sem IV (Jan-May 20)	Riemann Integration and Series of Functions	Sharing with Alka Marwaha
	BA (P) - Sem VI (Jan-May 20)	Analysis	
Dr. Ambika Bhambani	BA (P) - Sem I (July-Nov 2019)	CALCULUS	
	BA (P) - Sem III (July-Nov 2019)	ANALYTICAL GEOMETRY AND APPLIED ALGEBRA	Sharing with Dr. Rashmi Sehgal Thukral
	BA (P) - Sem VI (Jan-May 20)	Statistics	Sharing with Dr. Shikha

	BA (P) - Sem II (Jan-May 20)	Algebra	Sharing with Dr. Shikha
	B.El.Ed- 3 rd Year (July 2019 - May 20)	Mathematics II	Sharing with Dr. Shikha (Jan - May 20)
Ms. Sunita Narain	B.Sc(H) Mathematics – Sem I (July-Nov 2019)	BMATH101- CALCULUS	Sharing with Dr. Indrakshi Dutta
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	Discrete Mathematics	Sharing with Dr. Anu Saxena
	GE-III (July-Nov 2019)	Differential Equations	Sharing with Dr. Shikha
	B.Sc. (H) Mathematics - Sem II (Jan-May 20) B.Sc.(H) Mathematics - Sem IV (Jan-May 20)	Real Analysis Elements of Analysis	Sharing with Ms. Richa Krishna
Dr. Anu Saxena	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	MATHEMATICAL MODELLING & GRAPH THEORY	Theory (Sharing with Dr. Monica)
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	Discrete Mathematics	Sharing with Ms. Sunita Narain
	B.Sc(H) Mathematics – Sem III (July-Nov 2019)	C7- Multivariate Calculus	Only Practical
	B.Sc. (H) Mathematics - Sem II (Jan-May 20)	Differential Equations (PRACTICAL)	Giving Practical classes only
	B.Sc.(H) Mathematics - Sem VI (Jan-May 20)	Ring Theory and Linear Algebra-II	Sharing with Dr. Indrakshi Dutta
Dr. Indrakshi Dutta	B.Sc(H) Mathematics – Sem I (July-Nov 2019)	BMATH101- CALCULUS	Sharing with Ms. Sunita Narain
	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	C-12GROUP THEORY-II	Sharing with Dr. Anu Ahuja
	B.El.Ed 2 nd Year (July-Nov 2019)	Mathematics I	

	B.Sc. (H) Mathematics - Sem II (Jan-May 20)	Differential Equations (including Practical)	Sharing with Dr. Shikha
	B.Sc(H) Mathematics - Sem IV (Jan-May 20)	Ring Theory and Linear Algebra I	Sharing with Ms. Sunita Narain
	B.Sc(H) Mathematics - Sem VI (Jan-May 20)	Ring Theory and Linear Algebra II	Sharing with Dr. Anu Saxena
	B.El.Ed 2 nd Year (Jan-May 20)	Mathematics I	Sharing with Dr. Monica Rani
Dr. Rashmi Sehgal Thukral	B.Sc(H) Mathematics – Sem I (July-Nov 2019)	BMATH102- ALGEBRA	Sharing with Ms. Rama Saxena
	B.Sc(H) Mathematics – Sem I (July-Nov 2019)	BMATH-101: CALCULUS	Only Practical (Sharing with Dr. Monica)
	BA (P) - Sem III (July-Nov 2019)	Analytic Geometry and Applied Algebra	Sharing with Dr. Ambika Bhambani
	B.Sc(H) Mathematics - Sem IV (Jan-May 20)	Partial Differential Equations (Including Practical)	Theory and Practical both
Dr. Shruti Tohan	B.Sc. (H) Mathematics - Sem III (July-Nov 2019)	SEC 1: Latex and HTML	Theory and Practical
	B.Sc(H) Mathematics – Sem V (July-Nov 2019)	NUMERICAL METHODS	Theory and Practical
	B.Sc.(H) Mathematics - Sem VI (Jan-May 20)	Probability and Statistics	Only Practical
	B.Sc.(H) Mathematics - Sem VI (Jan-May 20)	Complex Analysis	
	5th Feb 20 - 26th March 20		CCL
Dr. Monica Rani	B.Sc. (H) Mathematics - Sem V (July-Nov 2019)	Mathematical Finance	

	B.Sc(H) Mathematics – Sem I (July-Nov 2019)	BMATH-101: Calculus	Only Practical (sharing with Dr. Rashmi Sehgal Thukral)
	B.Sc(H) Mathematics – Sem V (July-Nov 2019)	Mathematical Modelling and Graph Theory	Theory (sharing with Dr. Anu Saxena)
	B.Sc(H) Mathematics – Sem V (July-Nov 2019)	Mathematical Modelling and Graph Theory	Practical
	B.Sc(H) Mathematics - Sem IV (Jan-May 20)	Computer Algebra Systems and Related Softwares	Theory and Practical both Practical (Sharing with Dr. Shikha)
	B.A(H) - Sem II (Jan-May 20)	Linear Algebra	
	B.Sc(H) Mathematics - Sem IV (Jan-May 20)	Partial Differential Equations (Including Practical)	Only Practical (Sharing with Dr. Rashmi Sehgal Thukral)
	B.El.Ed 2 nd Year (Jan-May 20)	Mathematics I	Sharing with Dr. Indrakshi Dutta
	B.A(Prog) - Sem VI (Jan-May 20)	Transportation and Network Flow Problems	Only Practical (Sharing with Dr. Shikha)
Dr. Shikha	GE-I (July-Nov 2019)	CALCULUS	Sharing with Ms. Rama Saxena
	GE-III (July-Nov 2019)	Differential Equations	Sharing with Ms. Sunita Narain
	B.Sc. (H) Mathematics - Sem III (July-Nov 2019)	Latex and HTML	Only Practical (Sharing with Dr. Shruti Tohan)
	BA (P) - Sem III (July-Nov 2019)	Mathematical Typesetting Systems : Latex	Only Practical (Sharing with Dr. Anu Ahuja)
	B.Sc. (H) Mathematics - Sem II (Jan-May 20)	Differential Equations (including Practical)	Sharing with Dr. Indrakshi Dutta
	BA (P) - Sem VI (Jan-May 20)	Statistics	Sharing with Dr. Ambika
	BA (P) - Sem II (Jan-May 20)	Algebra	Sharing with Dr. Ambika

	B.El.Ed- 3 rd Year (Jan-May 20)	Mathematics II	Sharing with Dr. Ambika
	B.Sc. (H) Mathematics - Sem IV (Jan-May 20)	Computer Algebra Systems and Related Softwares	Sharing with Dr. Monica Rani
	B.Sc. (H) Mathematics - Sem VI (Jan-May 20)	Complex Analysis (including Practical)	Only Practical (Sharing with Dr. Shruti Tohan)
	BA (P) - Sem VI (Jan-May 20)	Transportation and Network Flow Problems	Only Practical Sharing with (Dr. Monica Rani)
Ms. Aparna (Guest faculty)	B.Sc.(H) Mathematics - Sem VI (Feb - March 20)	Probability and Statistics	

3. College Society for which teachers in the Department are responsible:

Name of Teacher	Society	Indicate Convenor/ Member	No. of students participated	Venue	Date
Dr. Alka Marwaha	IQAC	Convenor			
	Bapu Dham Golden Jubilee Project	Member			
Dr. Anu Ahuja	IQAC	Member			
	Website Committee	Member			
Ms. Rama Saxena	Time-Table Committee	Convenor			
Ms. Richa Krishna	English Quiz Society	Convenor			
Dr. Ambika Bhambani	Study Leave Committee	Convenor			
Ms. Sunita Narain	Placement Cell	Coordinator			Throughout the year
	B.Voc Courses	Nodal Officer	300	JMC	

	IGNOU	Assist. Coordinator			
Dr. Anu Saxena	Study Leave Committee	Member			
Dr. Indrakshi Dutta	Student Aid Fund	Member			Details will be in the Society report
	Department of Mathematics	Staff Association In charge			
	PTSA	Co-opted			
Dr. Rashmi Sehgal Thukral	Hindi Quiz Society	Member			
Dr. Shruti Tohan	Choreography society	Convenor			
	Convocation committee	Member			
Dr. Monica Rani	Hindi Debating Society	Member	32		
	Bapu Dham Golden Jubilee Project	Member			
Dr. Shikha	Hindi Debating Society	Member	32		
	NAAC Criteria 7	Member			
	Add-on-courses	Member			
	Bapu Dham Golden Jubilee Project	Member			
	Webinar Committee	Member			

4. Co-curricular programmes arranged by the Department:

Name of Teacher	Programme	Teachers Involved	Award, if any	Venue	Date
Dr. Anu Saxena (Teacher In-Charge)	Department Orientation for First Years	Dr. Indrakshi Dutta, Ms. Rama Saxena, Ms. Sunita Narain	-	Room no. 401	18-07-2019

Dr. Indrakshi Dutta (Association In-Charge)		Dr. Shikha, Dr. Monica,			
	Department Elections	Dr. Indrakshi Dutta, Ms. Rama Saxena, Dr. Anu Saxena, Dr. Shikha, Dr. Monica	-	Room no. 401	08-08-2019
	Freshers Day	Entire department	-	Room no. 408	30-08-2019
	Teachers Day Celebration	Entire department	-	Room no. 402	5-09-2019
	Self-Defence Workshop	Dr. Anu Saxena, Dr. Indrakshi Dutta, Dr. Shikha, Dr. Monica	-	Thevenet Hall, Hall	2-09-2019- 6-09-2019
	Seminar on Sexual Harassment at Workplace	Dr. Anu Saxena, Dr. Shikha, Dr. Monica	-	Thevenet Hall	20-09-2019
	Seminar on Financial Wellness by Xylem-	Dr. Anu Saxena		Room no. 402	25-09-2019
	Departmental Trip	Dr. Alka Marwaha, Dr. Indrakshi Dutta, Dr. Shikha	-	Dalhousie- Khajjiar	18-10-2019 to 22-10- 2019
	Undergraduate Research	Dr Anu Saxena, Dr Monica Rani, Dr Shikha, and B.Sc.(H) Mathematics III year students, Neha Sam, Vidhi Vashishth, Yukti	Paper titled 'Analysis of Fractal Patterns in the Prices of Agro- based commodities' presented in 3rd International Conference on Modern Mathematical Methods and High Performance Computing in Science & Technology. The project was mentored by Dr Monica Rani .	Inderprastha Engineering College, Ghaziabad	9-01-20 to 11-01-20

	Annual Fest Matherena	Dr. Indrakshi Dutta, Dr. Anu Saxena, Dr. Shikha, Dr. Monica	-	Thevenet Hall, Amphi, Basketball court, Hall	20-01-2020
	Algorithm- Math Department Newsletter	Dr. Anu Saxena The Editorial Board Neha Sam (Editor In Chief) Tanya Agarwal (Illustrator) Ananya Mishra (Content strategist) Jessintha Mathew (Designer) Ishika Bansal, Purty Kapoor, Ishika Bhutani, Diksha Jha, Beatrice Roy, Soumya Negi, Khushboo, Additi pandey, Suruchi Beck, Amisha Singh, Ruchi Singh, Melissa Jiji	-		
	A Talk by T.I.M.E on Career after Graduation-	Dr. Anu Saxena	-	Room no. 408	6-10-2019
	Departmental Assembly	Dr. Indrakshi Dutta, Dr. Alka Marwaha, Dr. Rashmi, Dr. Shikha, Dr. Monica, Ms. Aparna	-	Hall	18-02-2020
	A Talk by T.I.M.E on 'Careers in U.S.A	Dr. Anu Saxena	-	Hall	4-03-2020
	Sports Day March Past	Dr. Indrakshi Dutta, Dr. Shikha, Dr. Monica	-	Ground	6-03-2020
	Algorithm Second Edition- May 2020	Dr. Anu Saxena The Editorial Board Neha Sam (Editor In	-		

	Chief) Tanya Agarwal (Illustrator) Ananya Mishra (Content strategist) Jessintha Mathew(Designer) Ishika Bansal, Purty Kapoor, Ishika Bhutani, Diksha Jha, Beatrice Roy, Soumya Negi, Khushboo, Additi pandey, Suruchi Beck, Amisha Singh, Ruchi Singh, Melissa Jiji			
Farewell to outgoing Batch	Entire Department	-	Online: Google Meet	13-06-2020
International webinar on How to Stay Cyber Safe in Covid-19 Times	Dr. Indrakshi Dutta, Dr. Anu Saxena, Dr. Shruti Tohan	-	Online: Google Meet	22-06-2020

5. Students in the Department who participated in extra-mural, co-curricular activities within and outside College:

B.Sc.(H) Mathematics	Name of the Student	Name of the Event	Venue	Position secured if any	Any other Details
First Year	Himani Arora	FIC mock auction	JMC	1st	

First Year	Sunaina	Freshers'19	JMC	Miss Personality	
First Year	Shambhavi Maurya	Mathematical Relay Rangoli competition	JMC JMC	1st 3rd	
First Year	Sangavi	Business Plan Competition	Shiv Nadar University	2nd	
First Year	Nishka Bhushan	Duet Singing Competition	AIIMS	1st	Performed and won laurels in 19 competitions as member of Western Music Society
First Year	Abhilasha Francis	Mathematical relay Rangoli competition	JMC JMC	1st 3rd	
First Year	Tweshaa Dewan	Business plan competition Business Plan competition	Shaheed Bhagat Singh College Shiv Nadar University	2nd 2nd	
First Year	Shailza Varshaney	Jack of Trades, FIC	Shivaji College	2nd	
First Year	Vanshika Sehgal	Volleyball Tournaments	BITSAT IIT Kanpur SLR	3rd 2nd 1st	

First Year	Anushka Chhabra	Big Data Analytics Quiz	IMS Ghaziabad	1st	
		Brand Tambola	JMC	3rd	
Second Year	Anjali Mishra	Mathematical Relay Competition	Shivaji College	2nd	
Second Year	Deepjyot Ahluwalia	Verse-o-Magique	Maitreyi College	3rd	
		Pen-a-page	JMC	3rd	
Second Year	Ritika Sehrawat	Inter-college athletics		1st	
		NCC tent pitching	JMC	1st	
Second Year	Vanshika	Yoga competition	LSR	3rd	
Second Year	Additi Pandey	Nurture nature save future quiz	KMV	1st	
		Poetry Competition	JMC	2nd	
Second Year	Ishika Bhutani	Mathematical Quiz	Bharati College	2nd	
		Pictionary	Shivaji College	3rd	
		Mathematics Quiz	MLNC	3rd	
		Number's Ninja	Kalindi College	2nd	
		Math Charades	Shivaji College	3rd	
		Math relay	Shivaji College	3rd	

		Math Quiz	ARSD College	2nd	
		Treasure Hunt	PGDAV College	1st	
		NCC - Group Dance	JMC	1st	
		NCC-Group Singing	JMC	2nd	
Second Year	Surbhi	Mathematical Quiz	Bharati College	2nd	
		Pictionary	Shivaji College	3rd	
		Mathematics Quiz	MLNC	3rd	
		Mathematical Quiz	Kalindi College	2nd	
Second Year	Rosmin Ann Raju	As member of Indian Dance Society	Shyama Prasad Mukherjee College	2nd	
Second Year	Sanskriti Mishra	Featured in Grazia India			
Second Year	Diksha Jha	Maths Relay	Shivaji	2nd	
		Math Quiz	Kalindi	3rd	
		Math Tambola	Kalindi	3rd	
Second Year	Rimjhim Singh	As a member of Indian Dramatics Society.	Hansraj College	Best Performer	Performed and won laurels in 17 competitions.
Third Year	Preeti	Handball Tournament	IIT Kanpur	1st	

		Relay	BITS	1st	
		Inter-College Handball	DU	1st	

Name of Student	Programme	Teachers involved	Award, if any	Venue	Date
35 Students from JMC Participated	Madhava Mathematics Competition Exam 2019	Dr. Alka Marwaha, Dr. Shikha	Following Shortlisted Students will receive the certificate Surbhi (MT(H) II) - Stood 1 st in JMC and Overall Rank is 7 th . Diksha Jha (MT(H) II) - Stood 2 nd in JMC Saumya Negi (MT(H) II) - Stood 3 rd in JMC Ananya Lohani (MT(H) I) - Stood 4 th in JMC	Centers : Deen Dyal Upadhyaya College and Miranda House	12 January, 2020

6. Number of students of the Department who have participated in Community Development programmes:

Year	NSS	JMCEP	WSC	NCC	Peace	Green	NSO	AICUF	Any other
I Year	0	12	3	1	16	2	3	2	
II Year	4	13	8	8	6	1	2	1	Bapu Dham Golden Jubilee Project The following students actively participated in this project: Jagriti, Suruchi, Ruchi, Soumya, Yashika, Diksha, Ishika Bhutani, Surbhi, Anjali,

									Ishika Bansal, Parnika, Ameesha, Purty, Amisha Singh, Blessy
III Year	23	16	5	4	1	2	10	3	Bapu Dham Golden Jubilee Project The following students actively participated in this project: Apoorva, Soni, Nishita, Teres, Jessintha, Neha, Anu, Madhurta, Pranshi, Riya, Sheetal, Megha , Vidhi, Ananya, Tanya, Yukti , Jenifa, Mahima, Niharika

7. University assignments undertaken by teachers of the Department. (Please do not disclose paper setting and Examination duties)
8. Publications (books, research papers/articles and book reviews) by members of the Department during the course of the academic year. Format Is given as follows:
(a) For books: Surname, Name (Year of Publication), Title of Publication, Place of Publication, Publisher, ISBN No.

Surname	Name	Year of Publication	Title of Publication	Place of Publication	Publisher	ISBN No.
Singh	Shikha	2020/4/8	Multi-switching Combination Synchronization of Fractional Order Chaotic Systems	Joint European-US Workshop on Applications of Invariance in Computer Vision	Springer	978-3-030-44289-7
Singh	Shikha	2019/10/26	Controlling Chaotic System via Optimal Control	International Conference on Advanced Intelligent Systems and Informatics	Springer	978-3-030-31129-2

(b) For research article: Surname, Name (Year of Publication), Title of Paper, Journal in which published, ISBN No., Page No.

Surname	Name	Year of Publication	Title of Publication	Journal in which published	ISBN No.	Page No.

9. Participation of faculty in:

- a. International conferences held abroad, with topic, place and dates
- b. Conferences held in India, with topic, place and dates
- c. Refresher & Orientation courses (as resource persons)

Name of the Teacher	Dept.	Name of Conference/ Seminar/Meeting/	Nature of Participation	Venue	Date
Dr. Shikha Singh	Mathematics	National Conference on Advances in Mathematical Analysis and its Applications (NCAMAA-2019)	Paper Presentation	PGDAV College, University of Delhi	November 8-10, 2019
Dr. Rashmi Sehgal Thukral	Mathematics	Refresher Course on Recent Advances in Research Methodology	Participant	Ramanujan College	17-01-2020 to 28-01-2020
Dr. Monica Rani	Mathematics	FDP on R Programming	Participant	Birla Institute of Technology Mesra, Noida Campus in association with Spoken Tutorial Project, IIT Bombay	11-05-2020 to 15-05-2020

Dr. Shikha Singh	Mathematics	FDP on R Programming	Participant	Birla Institute of Technology Mesra, Noida Campus in association with Spoken Tutorial Project, IIT Bombay	11-05-2020 to 15-05-2020
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10. Honours received by faculty members at the international/national level

11. Talks and Seminars (National/International) organized by the Department

Seminar on Sexual Harassment at Workplace on 20th September 2019

The Seminar started with a debate competition on the topic “If you walk into a room and feel uncomfortable, then that is harassment”, followed by a report presentation on Sexual Harassment. Both the events were witnessed by participants from various colleges. The seminar concluded with an interactive session by Advocate Zeba Khair.

Seminar on Financial Wellness by Xylem- 25th September, 2019

An interactive and knowledgeable session conducted on personal growth and five secrets of Financial Wellness.

A Talk by T.I.M.E on 'Careers in U.S.A'- 4th March, 2020

The session helped the students to know about the career opportunities in the USA and the right approach to be used in order to get into colleges abroad.

International webinar on the topic “How to stay Cyber safe in Covid-19 times” on 22nd June, 2020

The Department of Mathematics in collaboration with IQAC, Jesus and Mary College organized an interactive webinar. It was very interactive as well as relatable at the same time. It cautioned about the increasing cyber crimes and informed about how to stay protected from crimes in the cyber world.

12. Outstanding visitors to the Department in the course of the academic year:

Name	Designation	Purpose of visit	Date
Professor Anup Kanti Deb (Via Webinar)	Professor Anup Kanti Deb, Director, Palo Alto	To conduct interactive webinar on “ How to stay	22/06/2020

	<p>Networks. He leads the Managed Detection Response Practice across the AsiaPacific and Japan region .Anup comes with a rich background of working in the Information Technology and Cyber Security Industry having specialised in the area of Cyber Security - Risk and Compliance domain. He is also a Subject matter expert in Incident Response. Beside specialising in the field of CyberSecurity , Anup has been a sales professional with cross functional expertise in Business Development , Account Management , and leading engagements with large enterprise customers and partners globally . Anup has worked in leading Information Technology companies including IBM , HP , France Telecom , Wipro , HCL and a few more .With over two decades of Industry experience ,Anup has been an eminent speaker at industry events and conferences across the region. An active writer /blogger , his writings and research papers have been regularly published in journals of repute, he possesses excellent</p>	cyber safe in Covid-19 times”	
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	<p>communication and presentation skills and is decorated with multiple professional awards.</p>		
<p>Advocate Zeba Khair</p>	<p>·Ms. Khair is a well accomplished practicing advocate. Litigation is her forte. She extensively appears in different Courts and Forums like the Supreme Court of India, State High Courts, District Courts and the National Company Law Tribunal. Member of Supreme Court Of India Bar Association and Delhi High Court Bar Association.</p> <p>· She has been the Standing Counsel for Delhi High Court with a Central University, namely, Jamia Millia Islamia, at New Delhi for 4 years.</p> <p>In May 2018,Ms Khair was invited by the University of Washington at Seattle USA for 7 speaking engagements from subjects related to gender violence to challenges Muslim women face in the workforce-An appraisal of Muslim Women's Law against the backdrop of the Shariat. She took classes on Human Rights and also</p>	<p>Interactive Session at Seminar on Sexual Harassment at Workplace</p>	<p>20- 09- 2019</p>

	<p>addressed law students on gender laws, rights.</p> <p>In July 2018, Ms Khair addressed the Doughty Street Chambers, London on the topic of sexual harassment in the supply chain.</p> <p>In November 2019 Ms Khair addressed a workshop at Paris on Intellectual Property Rights.</p> <p>She advises Clients on joint ventures, company, contractual drafting and handling due diligence and investigatory tasks on large projects and corporate acquisitions and on laws relating to anti-corruption and women's issues</p>		
<p>Ms Rakhee Lakhanpal Malik</p>	<ul style="list-style-type: none"> ● Experience of Working for 21 years in the field of Human Resource Management ● Board member A.T. Kearney's India entity ● Currently she is spearheading the HR and Professional Development function for the Research & Analytics team at WNS Global Services ● Eminent speaker at industry forums and educational institutions ● She was awarded the "Women Super Achiever Award" by the World HRD 	<p>Judge of Debate Competition</p>	<p>20- 09- 2019</p>

	Congress in 2016, “Most Influential HR Leader” in 2017 and “Exceptional Women of Excellence” by Women Economic Forum in 2017		
Dr Taisha Abraham	<ul style="list-style-type: none"> ● Associate Professor in Dept. of English, JMC (Retired) ● Pursued Ph.D from State University of New York at Stony Brook ● Editorial Board member in both National and International Journals ● Published several books and articles ● General editor of Shakti Series ● Editor of The JMC Review: An Interdisciplinary Social Science Journal of Criticism, Practice and Theory. 	Judge of Debate Competition	20- 09- 2019
Prof. Asha Mathur	Former Principal of Lady Sri Ram College, University of Delhi	Annual Fest Matherena	20-01-2020

13. No. of Department meetings held in the course of the academic year: Documentation of meetings with proper Agenda and Minutes

Date	Teachers/ Students present	Agenda
29-07-2019	Dr. Anu Saxena, Dr. Anu Ahuja, Dr. Ambika Bhambani, Dr. Indrakshi Dutta, Ms. Rama Saxena, Dr. Alka Marwaha, Dr. Monica Rani, Dr. Shikha Singh	To discuss a day to organize a talk Date was fixed for 20 September 2019
30-07-2019	Dr. Indrakshi Dutta, Dr. Shikha, Dr. Monica Neha Sam (Student Ex-President) Yashika Kapoor (Student Ex-Vice President)	To discuss Department Election. Applications were invited from 1-08-2019 till 07-08-2019.

14-08-2019	Dr. Indrakshi Dutta, Dr. Monica Rani, Dr. Shikha Singh Teres Augustine (Student President) Purty Kapoor (Student Vice- President) Neha Sam (Student Ex-President) Yashika Kapoor (Student Ex-Vice President)	Freshers day and Teachers day celebration Tentative Programme for the year and Budget
21-08-2019	Dr Anu Saxena, Dr Shikha, Dr Monica and department students	To decide about Seminar on sexual harassment and Self-defence workshop.
16-09-2019	Dr Anu Saxena, Neha sam and Vidhi Vashishth (students)	To decide on sponsorships for seminar on sexual harassment at workplace. Dates were fixed for our sponsors T.I.M.E. and Xylum to interact with our students. T.I.M.E. interacted with department students on 06-10-2019 and 04-03-2020; Xylum on 25-09-2019
21-09-2019	Entire Department	To decide Departmental workload for Jan-May, 2020 semester.
23-01-2020	Dr. Indrakshi Dutta (Association In-Charge) Teres Augustine (Student President) Purty Kapoor (Student Vice- President)	Account details of Matherena
05-02-2020	Dr. Indrakshi Dutta (Association In-Charge) Teres Augustine (Student President) Purty Kapoor (Student Vice- President) Neha Sam (Student Ex-President)	To discuss the future programs and finalize the expenditure incurred till date. Future programs for incoming months was finalized : A talk by Times group in Feb 2020 A talk by Shobha Bagai in March 2020 A talk on Coding theory in March 2020

14. Library: Budget for the year and its utilization

- a) Total no. of books appertaining to the subject in the College Library : 4,200
- b) Amount of Library Budget available to the Department : 40,000
- c) No. of new books added to the library for the Department in the year 2019-20 : 32

15. Laboratory Budget for the year:

a) Indicate advantages experienced by the Department in the day to day work;

- (i) Good environment and infrastructure conducive to holistic learning and teaching.
- (ii) Cooperation by non-teaching staff in making laptops and projector available whenever required, is appreciated.
- (iii) Having department rooms makes organising functions in the department easier.
- (iv) Staff canteen is a welcome addition.

b) Disadvantages experienced by the Department;

- (i) For teaching mathematics, we need to write a lot on the board. Non availability of markers and good quality erasers is a real problem; it needs to be addressed on an urgent basis as it is a serious problem.
- (ii) Laptops and some projects are not upto date.
- (iii) Staff canteen is not properly furnished. It is in a very shabby state.
- (iv) Rooms not cleaned properly, especially the staff room. Rooms, including the staff room, are not dusted properly, mostly the staff room is full of dust and dirt.

c) Suggestions, if any

- (i) Good erasers and markers may be issued to faculty as often erasers get missing from classrooms. We have been purchasing and carrying our own markers to teach, which is not a desirable situation.
- (ii) Upgradation of projectors and laptops will make use of technology in teaching smoother.
- (iii) A white board may be made available for the Mathematics department room.
- (iv) One or two comfortable/easy chairs may be made available for the department room. It will aid in making guests of the department more comfortable.
- (v) Staff canteen needs proper furnishing so we can eat in a hygienic condition.
- (vi) Staff room needs to be dusted thoroughly, in addition to regular cleaning, everyday. We spend most of our waiting/free time either in the staff room or in the staff canteen.
- (vii) Staff room needs to have a proper RO system.

16. List of students who were awarded merit certificate

Department of Mathematics: Year-wise Toppers for PTSA (2019-2020)

B.Sc. (H)	Name	Present Class
Overall Topper	Garima Madan	Passed out
III Year Topper	Garima Madan	Passed out
II Year Topper	Ananya Mishra	B.Sc. (H) Mathematics III Year

17. Alumni Day and other Alumni related activities/events held during the year; We are trying to build a database for our alumni but the exercise is still in progress.

18. Review and Comparison with previous year's Department report. We have more or less kept up the pace.

19. SWOC Analysis

Strengths

1. The department has a dedicated and committed faculty that encourages the students to take up research-oriented projects.

2. Some faculty members organise and conduct research workshops in collaboration with other departments focusing on enhancing research skills of students.

Weaknesses

1. Internet facilities need to be upgraded.

2. Upgradation of computerised hardware and software facilities.

3. The Department Room is under-utilised.

Opportunities

1. Potential inter-disciplinary research collaboration both for faculty and students.

2. Organising National /International level Conferences annually.

3. Extension activities to be undertaken in the neighbourhood community sensitising students to social issues for their holistic development.

Challenges

1. Implementing the mentor-ward system in a structured manner with the aim to provide proper guidance to the students not only in choosing the right career path but also to help them learn how to deal with the vicissitudes of life and become confident and emotionally secured individuals.

Future Plans

1. International Mathematics Conference.

2. Organising workshops/seminars focusing on industry-academia collaborations.

3. Ergonomic refurbishment of the Department Room.

20. Future Plans;

1. We will work on our alumni database.

2. A certification course in R initiated by us during the academic year 2018-19 bore fruits in academic year 2019-20.

Students were able to apply knowledge gained in R to get two undergraduate research papers published. This is the first time students from our department attempted such a task and got success. We hope to continue with it.

3. Our department initiated and conducted the certification course in R in collaboration with the departments of Economics and Commerce. We are encouraged to work on some more collaborative work, be it research or conducting more such courses.

4. We will work on making our newsletter more comprehensive.

