

ANNUAL REPORT

(2017-2018)

*XX<sup>centro</sup>  
(only for UD)  
After March  
2018 events  
included in this)*



RAMJAS COLLEGE

UNIVERSITY OF DELHI  
DELHI-110007

India

<http://www.ramjascollege.edu>

**95<sup>th</sup> ANNUAL REPORT**  
**University of Delhi**

**1. Name of the College:        Ramjas College**

**2. Major Activities and Achievements (*Maximum 150 words*)**

Ramjas College is an eminent college of University of Delhi, Founded in 1917 by educationist-philanthropist Rai Kedar Nath. The college today boasts of a spacious campus, state of the art infrastructure and an esteemed faculty of scholars trained at leading universities in India and abroad.

I have great pleasure in presenting the Annual Report of the Ramjas College, University of Delhi for the year 2017-2018 comprising the academic, co-curricular and developmental Programme.

Ramjas College celebrated its Annual Day at the college Auditorium. Shri Manoj Sinha, Hon'ble Minister of State for communications and Minister of State for Railways, Government of India presided over the function as the Chief Guest along with Professor Yogesh K. Tyagi, Vice Chancellor, University of Delhi, who graced the occasion as the Guest of Honor. .

It has indeed been a very rewarding year and was a step towards making this world a better place. Our college is proud of nurturing the talents of many students We aim at creating individuals who are not only good academicians but also have the ability to bring considerable changes within our society and help them open up their mind, challenges their conditioning and including a spirit of critical thinking.

This year Badminton was introduced in the college and two Badminton courts were made. In this year 2017 four players of our college had position in National and All India Inter University Championship, 26 players participated in National and All India University Championship and 37 players secured positions in Inter College and State Championship and brought laurels for the college. Specially Abled Student-- Silver Medal IBSA National Judo Championship and a Bronze medal in Delhi state.

In the academic session 2017-2018 a total of 126 boys and 80 girls students were admitted against 130 and 80 seats respectively in the hostel. In total 18 PWD students were given admission against 10 seats .

Physics and Zoology department has been given the status of “STAR DEPTT” by DBT (Department of Biotechnology) involved in enhancing the knowledge of students towards latest technology and recent development in the field of physics like Robotic, Drone designing, Laser and its application, Detection of Gravitational waves, Mathematical modelling of bacteria in human being. This year also Ramjas debating society added one more jewel in its crown by organising its first edition of the Hindi Conventional cum Parliamentary debates “ Vaak-Vyuh”. The National Service Scheme (NSS) unit of Ramjas College is designed to provide a platform for students to engage in socially-useful productive activities. The NSS inculcates qualities of leadership in the very significant area of social dynamism. It helps the youth identify the needs and problems of the community and involves them in the problem-solving process. In the last academic year 2017-18, two momentous projects were undertaken, namely Navnirman and Drishti. In Project Navnirman, children from Cigarette-wala Bagh slum cluster of Model Town were taught by student volunteers. Project Drishti, about 30 students of NSS assisted visually-challenged students in their assignments, projects and as scribes in examinations. Ramjas NSS had also organized a Self-Defence workshop for women on the birth anniversary of Netaji Subhash Chandra Bose. In this workshop 40 girl-students were trained for 10 days under the aegis of CDLSA (Central and Delhi State Legal services Authorities) and Delhi Police. Tree Plantation drive was also carried out. This year our college also won the First prize in both Nukkad Natak and dance competition in the annual NSS fest of JNU.

### 3. Honours/Distinctions

Student Name	Course	Medal Name
Prince Kumar Singh	B.A. (H) Political Science	Principal's Medal for Outstanding Specially Abled Student
Paras Batra	B.Com (P)	Rai Kedar Nath Gold medal for the best Student in Social Science at undergraduate level
Ankit Gupta	B.Sc. (H) Botany	Rai Kedar Nath Gold Medal for The best Student of

		Science at undergraduate level
Sanjay Sharma	M.A. Sanskrit	Prof. Amba Prasad Memorial Gold Medal for the best Post Graduate Student
Krishan Kumar Upadhyay	B.A. (H) History	Prof. Amba Prasad Memorial Gold Medal for the best Under Graduate Student in Humanities
halini Yadav	B.Sc. (H) Botany	Principal's Medal for outstanding female student
Kartik Saini	B.A. (P)	Principal's Medal for Outstanding Male Student
Akanksha Biswal	B.Sc (H) Botany)	Best Student Award

#### 4. Students with Distinctions (*Maximum 5*)

S.No.	Name of the Student	Name of the Courses
	DIVYANSHI SINGLA	B,Sc. (Hons) Chemistry
	VAIBHAV PANDEY	B.Sc, (Hons) MATHEMATICS
	SURABHI MISHRA	B.A. (Hons) HINDI
	MOHIT KUMAR	B.SC. (Hons) PHYSICS
	JNANA JYOTI BHAUMIK	B,SC. (Hons) MATHEMATICS
	KIRTIKA KUCHAR	M.COM

## 5. Publications-

Gupta, A. (2017). Redefining Private tutoring, International Journal of Economics and business review, Vol-5(2), Issue-5, 191-195.

Gupta, A., Kumar V. and Lal, S. (2017). Asian journal of research in business economy and Management, vol-7 (9), 86-93.

Jha, N. A. and Kumar, V. (2017). Consequence of an abrupt light environment on daily behavioural pattern, cognitive performance and personality trait in the parent and future zebra finch generations, Animal Behavior, 132 , 29-47.

Singh B. K, Chandra J., Rajor H. K., and Pinkee, (2017). Spectral, Kinetics of Thermal Decomposition and Computational Analysis of Bioactive Metal Complexes of 4 – Methoxysalicyldeoxime, International Journal of Applied Chemistry 13(2) 235-253.

Rawat C.D. (2018). Digital Education and its Impact on the Process of Teaching and Learning. Consortium for Educational Communication (An Inter-University Centre of University Grants Commission on Electronic Media) News. Vol. 19 No. 2; 3-5.

Pathak, N., Prajneshu, M. Kumar, L., Ramlal A. (2018). Bio efficacy of weed based extracts in the control of Rhizoctonia root rot disease of Buckwheat. DU Journal of Undergraduate Research and Innovation, 3(1), 50-56.

Agnihotri, K.P., Jha M. P., Dwivedi, K.K., and Bhat V., (2018). Isolation of Nucellin promoter from *Hordeum vulgare* and its characterization in *Arabidopsis thaliana*. The International Journal of Plant Reproductive Biology 10 (2):151-156.

Lal, S., (2018). Study of Polyploidy in onion root tips. Published in Practical protocols for undergraduate students published, Sciences Protocol Manual, DBT Star College Scheme, Published by Department of Biotechnology Block 2, 6<sup>th</sup> Floor, CGO Complex Lodhi road, New Delhi-110003 Ministry of Science and Technology Govt. of India, [www.dbtindia.nic.in](http://www.dbtindia.nic.in).

Sherif H. M., Lindberg, S., Jha P.M., Geilfus, C.M., Plieth, C., and Mühling K. H., ( 2017). Calcium improves apoplasmic-cytosolic ion homeostasis in salt-stressed *Vicia faba* leaves. *Functional Plant Biology*, 44, 515-524.

Singh, M.O.K. (2017a). Biodiversity is Life – Medicines from Arthropods an unexplored wonder-48. *The People's Chronicle*, p. 4. Suresh Kumar *et al*, Screening and identification of bacterial strains from milk industrial waste using 16s rRNA ribotyping, *European Journal of Biotechnology and Bioscience*, 2017, 2(5): 37-40

## **6. Books and Book Chapter**

Dr. Sobinder Singh, Dr. Tuhin Dutta and Dr. Mrityunjay Sharma, (2017), *PHYSICS*, (For RGPV, Bhopal, M.P.), ISBN: 978-93-5192-070-0, Satya Prakashan, Delhi.

Dr. Tuhin Dutta, & Dr. Sobinder Singh, (2017), *Elements of Engineering Physics*, Satya Prakashan, Delhi.

Pathak, N., Bhaduri, A., Rai, A.K., (2017). *Sesame: Bioactive compounds and health benefits in Reference Series in Phytochemistry: Bioactive molecules in food*, 1-20, Springer Publications.

## **7. Journals: Teachers serving as Editor(S)/Member(S) of Editorial Board**

Dr. Amit Bhattacharya: Reviewer, *American Journal of Tropical Medicine & Hygiene*, USA.

Dr. Amit Bhattacharya: Reviewer, *Phytomedicine*, Elsevier.

Dr. Ojit Kumar Singh: Feature Article Writer in *ne Scholar Magazine*, ISSN 23500336.

Dr. Samar Pal: Member of Editorial Board of *Journal of Biological Sciences and Medicine* (ISSN: 2455-5266).

Dr. Helianthous: Reviewer, *Frontiers of Microbiology*.

Dr. Helianthous: Reviewer, *Indian Journal of Microbiology*

## **8. Research Projects, Funding Agency, Year/Period, Title of Project, Amount sanctioned**

Funding Agency: Funded by DBT STAR COLLEGE Scheme 2017-18.

Title of Project: Micropropagation of some medicinally important plant. (At Department of Botany, Ramjas College, University of Delhi, 110007)  
Amount sanctioned: Rs. 14,000/-

Funding Agency: Department of Biotechnology (DBT), 2017 March - 2020, 3 years,  
Title of Project: Star College Project  
Amount sanctioned Non - Recurring grant: Rs. 10.00000. , Recurring Grant: 3 lakh per year for three years Total: 13 Lakh for the year 2017-2018.

Funding Agency: Department of Biotechnology (DBT), 2018 -2020, 2 years  
Title of Project: "Remediation and Reclamation of Hexachlorocyclohexane (HCH) Dumpsite by using Microbial Bioremediation Technology",  
Amount sanctioned: First year: Rs.10,43,168, Second year: Rs. 6,43,168, Total : 16,86,336.

Funding Agency: Funded by DBT STAR COLLEGE Scheme 2017-18.  
Title of Project: Effect of kitchen waste's material on the growth of crop plants. (At Department of Botany, Ramjas College, University of Delhi, Delhi 110007)

## **9. Patents Filed/Granted -----NIL**

- Number and title of national/international patents
- Number and title of collaborative patents-Industry

## **10. Seminars Organized**

### **Name of Speaker, Designation and Affiliation, Title of Talk, Date**

Sh. Vipin Jain, Program Officer, Bhartiya Yog Sansthan, Pritam Pura, New Delhi, Importance of Yoga in everyday life, June 21, 2017.

Vipul Rikhi, Indian poet, fiction writer, translator and singer, Learning from the Folk Oral Traditions of Kabir, September 1, 2017.

Mr. Rajeev Malhotra, JINDAL School of Law and Public Policy, 'Macroeconomics Policies for Growth: India's experience since 1990, September 19, 2017.

Mr. Sunil Jain, Financial Express, 'Was GST a better alternative to demonetization' on September 20, 2017.

Dr Shibashish Giri (a Stem Cell specialist in research and therapy, Faculty and Head, Biomedical Centre, University of Leipzig, Germany) Talks on 'Stem Cells Product in Health Care' September 29, 2017.

Dr. Komal Manshani, Consultant, Max Hospital & Centre for child and adolescent well being, Mental Health issues in the youth. October 13, 2017.

Achin Vanaik, Retd. Professor, Department of Political Science, Delhi University, 'The Rise of Global Authoritarianism' which focused upon the historical aspect of the issue and place it in the present context, October 17, 2017.

Dr Shibashish Giri, A Stem Cell specialist in research and therapy, Faculty and Head, Biomedical Centre, University of Leipzig, Germany, Stem Cells Product in Health Care, November 29, 2017.

Dr. Alok Arun, Assistant Professor, Inter American University of Puerto Rico, Barranquitas, Puerto Rico, USA, Workshop on Scientific Writing & Oral Presentation, January 18, 2018

Dr. Adarsh Sharma Former Director NIPCCID (National Institute of Public Cooperation and Child Development. Expert on Early Childhood Care & Education, Executive Member, AIWEFA, Ways to promote Intergenerational Bonding, January 30, 2018

Shweta Gupta, A senior advocate in Tis Hazari court, New Delhi, Member of Society, 'Vikalp- Searching Together Learning together, Case studies, laws, prevention and treatment along with videos. January 30, 2018.

Harbans Mukhia and Neeladri Bhattacharya (Retd. Profs. JNU), 'The Historian's Craft' focused on new approaches to the writing of medieval Indian history and the question of historical reconstruction, community memory and expanding archives. February 20, 2018.

Ankit Chadha and Vedanth Bhardwaj, A dastan on 'Gandhi's idea of 'death' in *Prarthana*. February 20, 2018.

Ms Swati Maliwal, Chairperson, Delhi Commission for Women, Child Rape and Sexual Abuse.. April 11, 2018

## **11. Conferences / Workshops held by the department: Title, Dates, Funding agency support**

Second Science Film Festival (28<sup>th</sup> and 29<sup>th</sup> August 2018) in Collaboration with VIGYAN PRASAR, Department of Science and Technology, Government of India.

### **Workshop**

Digital Learning, Role of Technology in Learning , 25<sup>th</sup> September 2018, , Collaboration with Pearson Education Ltd. India.



Energy Audit, 13<sup>th</sup> March, 2018, was conducted by Dr. Ashok Kumar, Energy Consultant from Bureau of Energy Efficiency, Ministry of Power, Government of India and International Co-operation,

Techniques in Molecular biology, 21<sup>ST</sup> - 22<sup>nd</sup> February, 2018, for Forty two students of Life Science and Botany, DBT star college project.

Scientific Writing & Oral Presentation, 18<sup>th</sup> January, 2018, organized by Genesis & Department of Botany, Ram Jas College

Econometrics software, covering important software's like MS- Excel, Gretel, 27<sup>th</sup> Feb, 2018,

Mental Health, was organized on 13 th October, 2017 in Conference Hall of the college.

Promoting Intergenerational Bonding, 30<sup>th</sup> January, 2018, organized by All India Women's Education fund Association (AIWEFA) sponsored by National Institute of Social Defence (NISD), Ministry of Social Justice & Empowerment under DBT Star College Project,.

## **12. Oral / Poster Presented by the teacher**

### **Oral presentation**

Bharti Chaudhry, Suresh Kumar, Anupama Tiku and Pooja Jha Maity. 2018. Micropropagation of medicinally important plant: *Bacopa monnieri*. At International Conference on Medicinal Plants and Drug Discovery, July 18-20, 2018. Bangalore, India.

Amit Bhattacharya: Invited Talk, The National Conference on "Vector borne and Zoonotic Diseases: Emerging challenges in surveillance, diagnosis and control in the context of global travel, urbanization and climate change", Ashutosh College, Calcutta University, Kolkata (8 and 9 December 2017) (Title of Talk: titled "Antimalarial pharmacodynamics of repurposed drugs in combination with artemisinin against *Plasmodium falciparum in vitro*").

Amit Bhattacharya: Faculty Development Program: Positive Education: Developing Skills for Teaching, Learning, and Well-Being (22nd-28th May, 2018) (Title: TECHNOFERENCE: ALONE TOGETHER).

Charu Dogra Rawat\* and Sadhna Sharma. Research Based Pedagogical Tool – re-designing pedagogy' At International Conference (8-10<sup>th</sup> November, 2017) on the theme Aligning Education

Systems to the Challenges of the Future held at Shyama Prasad Mukherji College, University of Delhi, Delhi.

Helianthous Verma, Gauri Garg Dhingra, Monika Sharma, Vipin Gupta and Lal R. “Insights into the intrinsic genomic attributes of *Sphingopyxis* strains” under young Scientist colloquium at INSCR International Conference, 2018 on “Trends in Biotechnology for innovations in Health & Environment” at School of Biotechnology, KIIT University on 27<sup>th</sup> September, 2018.

Neelu Anand Jha. Effect of changing light environment on behaviour and physiology of organisms. National conference on “Environmental Challenges for New India”. 2<sup>nd</sup>- 3<sup>rd</sup> June 2018, Dr. Bhim Rao Ambedkar College, University of Delhi, Delhi.

Neelu Anand Jha, S.K.T. Taufique and Vinod Kumar. The dark side of light: behavioural and reproductive consequences of unnatural light environment on captive songbirds. National conference on “Behavioural Ecology: Responses to Climate Change”. November 24-25, 2017, Gujarat Institute of Desert Ecology, Bhuj, Kachchh, Gujarat, India.

Ojit Kumar Singh, M., & Babu, S. (n.d.). Cultivating Attentiveness to Edible Insect :A view from the Loushi Pat basin in Manipur. In International Conference Locating Northeast India: Human Mobility, Resource Flows and Spatial Linkages (pp. 166–168). Tezpur: Department of Sociology, Tezpur University, Assam..

S.K.T Taufique, Neelu Anand Jha, and Vinod Kumar. Circadian disruption and cognitive performance: insights from bird studies. International Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century. February 21 – 24, 2017, Department of Zoology, University of Delhi, India.

Yadav Shailesh Kumar R. and Aparna Dixit, “Eukaryotic expression and characterization of biologically active recombinant napin-like protein of *Momordica charantia*.” World Biotechnology Congress- 2017, JNU, New Delhi, 20-22<sup>nd</sup> February, 2017/

Dr. Helianthus, Oral presentation on “Complete genetic repertoire of a hexachlorocyclohexane degrading bacterium, *Sphingobium indicum* B90A” under Innovative Science special session for faculty at INSCR International Conference, 2017 on “Role of Microbe-Plant- Animal Interactions in Human Health” at University of Delhi, Delhi, India on 27 th September, 2017.

### **Poster Presentations:**

**Roma Rani**, Suresh Kumar, Alok Kumar, Kartiki Bhatnagar, Shaurya Vardhan, Mukta Kamboj, Thokchom Priton Singh, Ch Rachana, Shalvi Dogra, Nixon Chakma, Richa Kumari, Khundongbam Nonglenkhomba Meitei, 2018. **Effect of kitchen waste’s material on the growth of crop plants**. Presented on National Seminar on “**Recent Trends of Research in Life Sciences**” at Ramjas College, University of Delhi, 21<sup>st</sup> March 2018.

**Pooja Jha Maity** ,Presented a poster in the INSCR International Conference – Comparative Codon and Amino Acid Usage Bias among the sequenced Genomes of Bacterial Phylum Firmicutes. In the INSCR International Conference – 2017 (IIC-2017) Theme: “Role of Microbe-Plant- Animal Interactions in Human Health” Dates: 26th - 28th September 2017

Aavrati Saxena, Aman Gangwar, Anushka, Kriti Karn, Shubhanshu Pandey, Pratistha Sharma, Ramnik Sharma, Manisha Singh, Sonal Nigam, Helianthus Verma, Devi Lal, Charu Dogra Rawat\* and Sukanya Lal. Isolation of Hexachlorocyclohexane (HCH) - Degrading Bacteria From HCH - Contaminated Soil From an HCH Dumpsite. Poster presentation at 3<sup>rd</sup> Indian Soil Contamination Network Research (INSCR) International Conference IIC-2018 held at KIIT (Deemed to be University), Bhubaneswar, Odisha (26th-27th September, 2018).

Charu Dogra Rawat, E-poster presentation of the paper “Methods and Applications of CRISPR-Mediated Base Editing in Eukaryotic Genomes” in National Symposium- cum- Faculty Development Program (15th – 22nd January, 2018) on “Genome Editing –Tools and Applications”, Miranda House, University of Delhi, New Delhi.

Hardeep Kaur, Poster Participation in the STEM Teacher Training Workshop on Research Based Pedagogical Tools held at IISER in collaboration with DBT, British Council, MHRD, IISER Pune and Newton Bhabha Fund, 23-25<sup>th</sup> January, 2017

Samar Pal Singh, Jai Gopal Sharma and Rina Chakrabarti, Poster Presented in Indo-US Workshop & International Symposium on “Biological Timing and Health Issues in the 21<sup>st</sup> Century” February 21-24, 2017 organized by Department of Zoology, University of Delhi, Delhi.

Yadav Shailesh Kumar R. and Aparna Dixit “Anti-hyperglycemic activity of Napin-like protein of *Momordica charantia*.”, International Conference on “*Trends in Biochemical and Biomedical Research: Advances and Challenges*” Department of Biochemistry, Institute of Science, Banaras Hindu University Varanasi-221005, INDIA, February 13-15, 2018 (Travel grant funded by DBT star college project, Ramjas College).

**13. National/International MoUs signed: NIL**  
• **Indian / foreign Universities/ company/Industry**

**14. Students under Exchange Programme: NIL**

**15. Placement Cell-in-charge: NA**  
• Number and percentage of students placed  
• Number of Companies visited for campus recruitment.

**16. Others activities**

## **EDUCATIONAL PROGRAMME**

A Inspire Science Internship Camp sponsored by Department of Science & Technology, Govt. of India, organized by Ramjas College, University of Delhi. in which 165 students of Classes 11<sup>th</sup> and 12<sup>th</sup> from thirty five schools of Delhi took part, 3<sup>rd</sup> to 8<sup>th</sup> July, 2017

## **STUDENT ACTIVITY**

Kartik Saini, a final year student of philosophy was the best speaker at a philosophical event conducted at The Jaypee Institute of Technology.

Muskan Sharma and Simran Makkar worked on a research project – A Study into the role of Mohalla Clinics.

Bhavya Sachdev, Divya Garg and Bhavya Hasija worked on a research project,- Atal Pension Yojana.

Department of Economics brings out an academic journal every year titled- The Journal of Ramjas Economics Society, managed by a student editorial board brings out research articles.

The socio-scientific debate competition. The objective of the debate was to correlate science and ethics, 22<sup>nd</sup> September, 2017.

## **LANGUAGES COURSES**

The School of Foreign and Indian Languages was instituted in Ramjas College in 2004, in response to the perception that knowledge of a foreign language offered increased opportunities for both employment and education. All Part-Time Certificate Courses are conducted in collaboration with the Department of Germanic & Romance Studies, and Department of East Asian Studies, University of Delhi. During Academic Session 2017-18, the College offered various Courses: French , German , Spanish, Italian , Japanese Chinese . In addition, it sought to provide students with exposure to the respective cultures through films, music, dance and cultural events organised by the related Embassies and Cultural Centres.

### **17. Extension and Outreach Activities**

#### **A- Library Development**

Number of books added in 2017-2018 was 1300

The library subscribed N-list from INFLI & NET. THE COLLEGE Also received E-journals subscribed by Delhi University library system

#### **B- Faculty Strength**

Total teacher-230

Permanent Teacher-99

Temporoy-1

Ad-hoc - 141

#### **A- Financial Allocation and Utilization**

(a) Grant sanctioned----- in Rs.51,73,24,000/-

(b) Grant Utilized -----in Rs.42,75,22,421/-

#### **18. Other Significant Information**

##### **The Startup Edge- Entrepreneurship Cell**

The Startup Edge- Entrepreneurship Cell, Ramjas College has formulated with the vision of nurturing the entrepreneurial instinct among the students of the college and goes by the motto of 'Transforming Passion into Profession'. The startup Edge - Entrepreneurship Cell, organized The Leadership Summit that invited Mr. Dushyant Chautla as the Chief Guest and The Internship Fair-2 in the Ramjas College ground. That invited 52 companies recruiting from our campus itself. More than 1000 students participated in the same and almost 300 students were offered internships which gave a boost to their careers. Spreading entrepreneurship was not the only motto according to members of the society, but creating an environment for entrepreneurship and helping other students to learn more about the day to day practical businesses. Under the Umbrella of The Startup Society, Students organised an awareness run to promote Donor on Call organised by Green Shakti Foundation in Association with Deloitte

Ramjas college is also running NPTEL-Online courses (National Programme on Technology enhanced alaearning) which is joint initiative of IITs and IISc

##### **Name and Contact details of Coordinator for Annual Report 2016-2017 of College.**

Dr. Ranjana Dixit, Associate Professor, (Convenor Annual Prize Distribution), Department of Chemistry, Ramjas College, University of Delhi-110007.

**Note: Wherever applicable, data at International and National levels should be given separately.**

Principal's Signature

Seal of College