



RAJDHANI COLLEGE
UNIVERSITY OF DELHI

ANNUAL REPORT
2014-2015

Presented by
Dr. Vijay Laxmi Pandit
Principal

17 April 2015

ANNUAL REPORT COMMITTEE

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RAJDHANI COLLEGE

(1964-2015)

ABOUT COLLEGE

Rajdhani College is a constituent college of the University of Delhi. It was established in 1964 by the Delhi Administration in Kirti Nagar, New Delhi under the name of Government College. The college acquired its new name when the Delhi administration vested its governance in an autonomous Governing Body.

The College is situated in West Delhi on Mahatma Gandhi Marg (Ring Road) near Raja Garden, New Delhi. Its beautiful and spacious building was constructed in 1976-77. The college is accessible from all corners of Delhi. Ramesh Nagar and Rajouri Garden Metro Stations are just a few steps away from the college. The college complex has an air-conditioned Seminar/Conference Room, an air-conditioned Auditorium, a well-stocked Library with Computer & Internet facility, and well-equipped Science Laboratories, as well as Computer Laboratories. To facilitate recreation the college has a beautiful playground for outdoor sports activities like cricket, football, hockey, volley ball, etc.

With the help of its ever dynamic staff, the institute strives for excellence in education, sports and co-curricular well-being of its students. Our college today is looked upon by the academic community of Delhi as an excellent institution notable for its progressive outlook towards teaching, learning and co-curricular activities. We are committed to providing an enabling environment in which holistic growth of every student is possible. We offer courses in all three streams: Commerce, Humanities and Sciences. Among the different honours courses the college offers B.Com (Hons.), B.A. (Hons.) in English, Hindi, Sanskrit, History, Political

Science, Economics, and B.Sc. (Hons.) in Chemistry, Physics, Mathematics, and B.Tech. in Electronics and computer science. Apart from that the college also offers B.A. Programme, B.Sc. Programme in Physical Sciences and Applied Physical Sciences. The college also offers post graduate courses in English, Hindi, History and Commerce.

Inaugural Address of Principal

Honourable **Chief Guest**, Mr. Kamal Kant Mittal, the Additional Secretary, Ministry of Culture; **Guest of Honour** Dr. S. Marriya, First Alumnus, Rajdhani College. Respected **Chairperson**, Rajdhani College Governing Body, Professor J. M. Khurana; Prof. P.C. Pattanaik, Treasurer, Governing Body; distinguished guests, dear colleagues and my beloved students!

Rajdhani College is celebrating its **51st Annual Day and Prize Distribution Function** and I feel very privileged to extend my heartiest welcome to all of you on this auspicious occasion. This is a moment of celebration of our academic and extra-curricular accomplishments, of stock-taking and of initiating the corporate vision. And to have distinguished guests like the visionary IAS, Mr. K. K. Mittal and eminent academicians Dr. S. Marriya, Prof. J. M. Khurana and Prof. Pattanaik on such a solemn occasion is a matter of great pride for us. On behalf of the whole college fraternity, I express our sincere gratitude to both the Hon'ble guests for sparing their valuable time for us despite their hectic schedules. Your presence today encourages us to keep marching forward and strive for the best.

It is my privilege to introduce our Chief Guest Mr. K. K. Mittal. Before joining IAS, Mr. Mittal served as a Lecturer in a College of Delhi University. Now he is working as Additional Secretary in Govt. of India, Ministry of Culture & Union Government Administrator to Lalit Kala Academy. He is an IAS Officer to Assam-Meghalya cadre. He was posted as Joint Secretary to the Government of India, Ministry of Home Affairs, where he worked in the field of Human Rights, Border Management and administration of Indian Police Service.

He joined the Indian Administrative Service on August 29, 1983 and initially held various portfolios in his cadre viz. SDO (Sadar), Kokrajhar, SDO (Civil), Golaghat, Deputy Secretary

(Finance), Dispur, Additional Deputy Commissioner, Kamrup, Deputy Commissioner – Lakhimpur, Nalbari & Golaghat, Managing Director, Assam Spun Silk Mills and Assam Polytex Limited, Additional Secretary (Education) & Secretary (Education), Govt. of Assam, Commissioner & Secretary, Panchayat & Rural Development, Health & FW, Mines & Minerals, Development Commissioner, Hill Area Development, Principal Secretary, Labour & Employment and Tea Tribes Welfare Department.

In addition, he held important portfolios in the Centre like Deputy Secretary/Director in Ministry of Water Resources & Cabinet Secretariat, and Joint Secretary & Director General of Employment & Training (DGE&T), Ministry of Labour & Employment. As DGET he initiated various new schemes and programmes in career counselling and skill development.

After completing his graduation from Sri Ram College of Commerce did his Post Graduation from the prestigious Delhi School of Economics and has topped in his entire academic career. He has undergone several training programmes/workshops/courses conducted by different government agencies.

Honourable Guest of Honour Dr. S. Marriya is the former Principal of DAV College, Chandigarh. He is also the First Alumnus of Rajdhani College. At present he is Regional Director, DAV College Managing Committee. He has held many academic and administrative positions and got many awards.

Honourable Chairperson, Prof. J. M. Khurana is a well-known academician. He is Dean, Student's Welfare and Professor in Department of Chemistry, University of Delhi. Prof. Khurana has received many honours at international level. He has published widely in national and international journals and has presented innumerable papers. He has supervised 27 Ph.D. and 15 M.Phil students. He is the recipient of Prof. D.P. Chakraborty Anniversary Award and Dr. S. Radhakrishnan Best Teacher Award. He has held various important administrative position in the University.

It is with great pleasure and privilege that I would like to present the Annual Report 2014-15. **Rajdhani College** became an integral part of the University of Delhi in 1964, and has from then onwards, with the help of its ever increasing dynamic staff strived

for excellence in education, sports, and co-curricular well being of its students. Our college today is looked upon by the academic community of Delhi as one of the most excellent institutions for its progressive outlook towards teaching, learning and co-curricular activities. We are committed to providing an enabling environment in which holistic growth of every student is possible.

I am very happy to announce that our college has received IInd position in **Good Practices Event** during **Cultural Festival, Antardhvani 2015** organized by University of Delhi.

A documentary 'Safarnama' was made on completion of the 50th Anniversary of the college. It captures the journey of the college from 1964 to the present day.

Newly Appointed Faculties

1. Dr. Anil Kumar – Department of History
2. Dr. Satya Prakash Singh – Department of Hindi
3. Dr. Rajiv Ranjan Giri – Department of Hindi
4. Dr. Nand Kishor Prasad – Department of Hindi

There have been following developments on the **infrastructural** front, though the challenges seems to be surmounting:

Infra-structure in the College

- Construction of New Academic Block with 8 Class Rooms & 2 big laboratories (Biology and Computer Science)
- Renovation of Class Rooms for the students in both Arts & Science Block.
- Renovation of Teacher's Room in Science Block.
- Cricket net for practice in college play ground.
- Renovation of college library.
- New toilet block for girls, boys and PWD students.
- One Class Room for students by contributing Bursar Room and NCC Girls Room.
- Renovation of store & Caretaker Room.
- Central Computer Lab
- Library (automation)

- Principal's office
- Accounts and Administration office
- Class rooms with LCD projectors
- Latest software in the college
- Canteen
- Tea – Snacks stall
- Bank and ATM
- CCTV surveillance
- Special software and tools for the differently abled students and teachers
- I-Card machine –automation
- New Computer lab with state-of-art-technology in the Department of Mathematics
- Latest equipment in different laboratories
- New furniture in class rooms and laboratories

But this year unfortunately Dr. Sanjay Malik, Associate Prof. Department of Physics and Sh. Vinod Babbar from the non-teaching staff left all of us untimely for thier heavenly above. May God bless their souls and give strength to the family and friends to bear the irreparable loss.

I sincerely wish that our college will have happy times ahead and God will bless the institution. I thank you all for your presence here and wish my lovely students best of luck during the coming exams as well as their life. I also take this opportunity to thank the Governing Body for their valubale support always. I specially owe my thanks to Prof. Khurana, the Chairman and Prof. Pattanaik, the Treasurer, Governing Body for their continuous support. Thanks again Mr. Mittal and Dr. Marriya for your presence on this occasion. Thank you all!

Dr. Vijay Laxmi Pandit Principal

Faculty Achievements

DR. VIJAY LAXMI PANDIT, Principal

- Chaired and presented a paper in the 23rd World Congress of Political Science, which was focussed on “A Changing World, a Changing Educational System: dealing with globalization and new cultural & political values in middle and higher education & socialization organised by IPSA, from at Montreal, Canada, July 19-24, 2014.
- Member, Academic Council of University of Delhi.
- Member, Social Science Courses Admission Committee of University.
- Involved in the Process of admission to various U.G. Courses for the Academic Year 2015-16 for which University of Delhi has formed a Committee.

DR. J.N. SINHA, Associate Professor, Department of History

- Delivered Keynote Address at National Seminar on ‘Reconstructing History of India in the Changing Socio-Cultural Scenario’, at PNG Govt. Post-Graduate College, Ramnagar, Uttarakhand, 26 March, 2015.
- Nominated Special Invitee to the Academic Council of Dr Shakutala Devi Vikalanga Rashtriya Viswavidyalaya, Lucknow, Uttar Pradesh, 2014.
- Commissioned by the American Historical Review (Indiana University, USA) to review Gajendra Singh, The Testimonies of Indian Soldiers and the Two World Wars. New York: Bloomsbury. 2014.
- ‘Science and the Freedom Movement’, People’s History, issue no. 2, (published by Sage) December 2014.

- 'A Tribute: The People's Historian', in D.N. Jha, ed., *The Complex History of Early India: Essays in Memory of Professor R.S. Sharma*, Vol. I, and Vol. II: *Development of a Nation: Essays in Memory of Professor R.S. Sharma*, Manohar, New Delhi, 2014 (Printed in both volumes).
- 'The Mortals behind Devdas', (based on research on the life and times of Sharatchandra Chattopadhyay), *Frontline*, 9 Jan. 2015.
- Reviewed Prakash Kumar, *Indigo Plantations and Science in Colonial India*, (Cambridge University Press, New York, 2012), in the *Reviews in History*, University of London, London, Jan. 2014.
- 'Legacy of the Freedom Movement', an invited talk at Academic Staff College, University of Rajasthan, Jaipur, 2 Sept. 2014.
- 'The NPC: A Dress Rehearsal for Social Revolution before Independence', invited talk at Academic Staff College, University of Rajasthan, Jaipur, 2 Sept. 2014.
- 'Science and the Freedom Struggle', invited talk at Academic Staff College, University of Rajasthan, Jaipur, 1 Sept. 2014.
- 'Science in India: A Historical Overview', invited talk at Academic Staff College, Kumaun University, Nainital, 26 August, 2014.
- 'History of Science: An Emerging Area of Historical Research', invited talk at Academic Staff College, Kumaun University, Nainital, 25 August 2014.
- 'Local History: Its Nature, Scope & Urgency for India', invited talk at Academic Staff College, Kumaun University, Nainital, 25 August 2014.
- 'Why History', invited talk at Academic Staff College, Kumaun University, Nainital, 25 August, 2014
- 'Gandhi's Relevance in Modern Times', invited talk at

Anashakti Ashram (Gandhi's abode in 1929), Kausani, Uttarakhand, 15 June 2014.

- Interview on the noted revolutionary Bagha Jatin, by Aajtak, Noida, NCR.
- 'Architecture in Modern India', invited talk telecast on Vyas TV Channel, New Delhi, on 25 March 2014.
- 'Art in Modern India', an invited talk telecast on Vyas Channel, New Delhi, on 24 March 2014.
- Continued to serve as reviewer/consultant for some of the leading research journals, publishers and research promoting agencies of the world, besides acting as examiner of PhD dissertations.

DR. SWATI NAGPAL

Associate Professor, Department of Physics & Electronics

- Completed the Innovation Project entitled, "A Study fo Atmospheric Gas Pollution & Hazards of Ultraviolet Radiation: Their Detection by Synthesis and Characterization of ZnO nanorods Based Nanosensor", with code RD202.
- Display of working model OF GAS SENSOR at "ANTARDHWANI 2015".

DR. R.D. SARMA

Associate Professor, Department of Mathematics

- Two research papers have been published in two international journals– Journals of Mathematics and Bulletin of Calcutta Mathematical Society respectively.
- Two research papers were presented in the 3rd International Conference on "Innovative Approach in applied Physical, Mathematical/Statistical, Chemical Sciences and emerging technology for sustainable development", India. The papers were also published in the conferences proceedings.

- Reviewed several research papers published in different international journals on behalf of the American Mathematical Review of The American Mathematical Society.
- Conducted the Viva-Voce Examination of a Ph.D. scholar in Bharathiar University Coimbatore.

Ms. SASMITA MOHANTY

Associate Professor, Department of Political Science

- Participated at the National Seminar on “The future of India’s Democracy: Social, Economic and Political Aspects”, Organised by the Department of Political Science, University of Delhi on 30th January, 2015.
- Published a paper on “Upaniveshwad Virodhi Sangharsh aur Vieupaniveshwad ki Prakriya” of Comparative Politics paper, B.A. (Hons.) Political Science, E-Lesson written for ILL, University of Delhi in 2014. For details log on to (www.ill.du.ac.in).
- Published a paper on “Globalisation and the Nature of Indian State” of Political Processes in India paper, B.A. (Hons.) Political Science, E-Lesson written for ILL, University of Delhi in March-2015. For details log on to (www.ill.du.ac.in).

DR. SONIA LUMB

Associate Professor, Department of Physics & Electronics

- Poster entitled “Static polarizability of an atom confined in Gaussian potential” presented in 4th International Conference on Current Developments in Atomic, Molecular, Optical and nano Physics with applications (CDAMOP 2015) held at the Department of Physics and Astrophysics, University of Delhi from March 11 to 14, 2015.
- ‘Photoexcitation and ionization of a hydrogen atom confirmed by a combined effect of a spherical box and

Debye plasma', by Sonia Lumb, Shalini Lumb and Vinod Prasad, Phys. Lett. A379, 1263 (2015).

- 'Photoionization of confined hydrogen atom by short laser pulses', by Shalini Lumb, Sonia Lumb and Vinod Prasad, Indian J. hys., 89, 13 (2015).
- 'Laser-induced excitation and ionization of a confined hydrogen atom in an exponential-cosine-screened Coulomb potential' by Shalini Lumb, Sonia Lumb and Vinod Prasad, Phys. Rev. A 90, 032505 (2014).

Dr. VED MITRA SHUKLA

Assistant Professor, Department of English

- Presented a paper entitled "Politics of Mahatma Gandhi's Homecoming and Indian Diaspora" in a National Interdisciplinary Seminar on "Trajectory of Indian Diaspora: Culture and Ethnicity" organised by Dept. English and Modern European Languages, University of Lucknow, Lucknow (UP, India) on March 20-21, 2015.
- Presented a paper entitled "Refashioning of Sita's Story: Issues of Cultural and Feminine Identity in Sita's Ramayana" in a National Seminar on "Feminism & Beyond: Identity, Gender and Politics" sponsored by UGC, New Delhi and organised by Dept. of English, DDU, Gorakhpur University, Gorakhpur (UP, India) on February 26-27, 2015.
- Presented a paper entitled "A Postcolonial Study of Charles Dickens' Influence on Premchand" in an International Conference on Postcolonial Literature organised by Indian Society for Commonwealth Studies in collaboration with O.P. Jindal Global Univ., Sonipat (Haryana, India) on January 28-30, 2015.
- Presented a paper entitled "Importance of Incorporating Social Issues and ICT in ELT" in an International Conference on Interfacing Language and Literature sponsored by World Bank and TEQUIP-II, and organised

by Dept. of Humanities, Faculty of Engineering & Technology, MJP Rohilkhand Univ. at MJP Rohilkhand Univ., Bareilly (UP, India) on October 12-13, 2014.

- Published a research paper titled “Importance of Bhajan in Mahatma Gandhi's Life” in Gandhi Marg Quarterly, Vol. 36, Issue: 1 (April-June 2014).
- Wrote “Foreword” in Theme for Today by Krishna Kumar, New Delhi: Vani Prakashan, 2015.
- Published translation of a long poem titled “Shadow, Fragrance and Sharmila Irom” in A Cry for Peace (Narendra Mohan's Long Poem in Hindi with Telgu & English Versions). Ed. K. Ravibabu. Vijayawada: AIPLF, 2015.
- Published a research paper (in Hindi) titled “Premchand aur Charles Dickens: Yatharthvad ke Mahapandit” in Gagananchal (ICCR), Vol. 5, Year 37 (Sep.-Oct. 2014).
- Published a research based article (in Hindi) titled “Smritiyon ke Siddh Chitere: Patrick Modiano” in Dainik Jagran (National News Paper in Hindi), November 03, 2014, Literary sec. 12.
- Published a research based article (in Hindi) titled “Samridh Bharat ka Vision – 2020” in Vartamaan Kamal Jyoti, August 2014, Year-24, Combined Issues 1-2, pp. 49-50.
- Participated as panelist in a talk on “Nationalism is Greater than Sectarianism: Mahatma Gandhi” organised by Gandhi Bhavan, University of Delhi, New Delhi and broadcast by DUCR FM 90.4MHz on Nov. 24, 2014 at 3:00 PM.

Dr. Prerna Malhotra, Assistant Professor, Department of English

- Co-authored a book ‘Business Communication’ alongwith Neerja Nagpal, Deb Dulal Halder and Yamini by Book Age Publications, New Delhi.
- Co-authored a book ‘Academic Writing and Composition’

in Anjana Neira Dev edited book, published by Pinnacle Publishers, New Delhi.

- Directed the documentary 'Safarnama' made on the occasion of the completion of the 50 golden years of Rajdhani College.

Sanjeev Kumar Sharma, Librarian

- Co-Chaired a Technical Session during ETTLIS 2015 held at **Jaypee Institute of Information Technology (Deemed University)** Noida during 06/01/15 to 08/01/15
- Honored by the school of library science, Delhi Library Association for contribution in the field of library & information science on its **77th foundation day** on 10th of March 2015

Departments & Societies

ENGLISH LITERARY ASSOCIATION

With the beginning of the Academic session 2014-15, English Literary Association (ELA) paced its literary journey by celebrating the 450th birth anniversary of 'William Shakespeare' in collaboration with FORTELL on 23rd September, 2014. The literary event was graced by the presence of chief guest Prof. Shormistha Panja, Joint Director, Institute of Lifelong Learning, University of Delhi who presented her paper titled "Visual Shakespeare" on the occasion. Her paper examined how the paintings and illustrations of Shakespeare's plays and retellings depicted the culture in which they were created. Taking the example of two Bengali prose retellings of Shakespeare, she argued how illustrations of the plays depicted the emerging, rebellious Bengal. She also argued that the 'visual Shakespeare'/illustrations of these retellings often has an independent narrative of their own which is detached from the verbal text of the plays and hence adds one more dimension of Shakespeare to be debated upon. The event was also marked by the presence of special invitee Dilip Kumar Basu, Associate Professor (retired) of Rajdhani College. On the occasion, the students presented an act titled 'Universal Shakespeare'. The act was an experiment with modern theatre - a combination of 'Shadow work' and 'Mime'. The 'Shadow work' formed the background which comprised the prominent scenes from some of the famous plays of Shakespeare while 'Mime' was an act which covered major emotions of Shakespeare's plays. The combined act formed a collage which presented Shakespeare in an entirely new, avant-garde form.

The Association also organised its annual festival 'Lit- Spirit' on 27 March 2015. As part of the festival, various inter-college competitions were organised providing students an opportunity to showcase their literary, creative and dramatic talents. 'Verse and

Tale' made students use their imagination and experiences to compose inspiring and beautiful stories and poems. In 'Quiz Bowl' participants, displayed their knowledge of the world of literature. 'Drama-Expresso' was a true delight for the audience as this segment of the fest had some brilliant and humourous impromptu performances by the participants. The competitions were followed by the screening of a documentary 'Bard in Bharat' to celebrate the influence of the eminent English playwright and poet, William Shakespeare on Indian art forms. The fest concluded with a spectacular enactment of T.S. Eliot's poem 'Love Song of J. Alfred Prufrock' by the students of the department.

Dr. VED MITRA SHUKLA
Convenor

WOMEN DEVELOPMENT CELL

This WDC has been established in the college with the purpose of establishing a campus free from all the biases and prejudices against females. A committee consisting of the faculty members looks after the issue of safety of all females (girl students, women teachers and staff members) within the campus. It also looks into the matter of solving any kind of gender based physical, mental or psychological discrimination faced by any female. The committee is actively involved in organizing various functions like self-defense programs, debates, plays and talks by several women activists, etc. Members of the Faculty of Law and known activist also visit the college regularly to enlighten the female students about their legal rights.

Dr. Urvashi Arora
Convenor

TREKKING, MOUNTAINEERING AND ENVIRONMENTAL PROTECTION CLUB

Ever since its beginning the club has drawn and attracted students and faculty members who are keen on hill-walking and trekking. The members participate sporadically in various trekking programs organized by the club. The club also offers students opportunities

for personality development and enrichment by means of promoting environmental appreciation, awareness, and protection programs.

Manali(elevation 6730 ft.) trekking trip was organized in October 2014. The group of 50 people including both teachers and students visited there. In the five days of trip both the students and teachers trekked around Rohtang Pass(elevation 13054ft.), Solang Valley (elevation 8400 ft.) and vashisth kund also. Rohtang Pass connects the kullu valley with the lahul spitti district of Himachal pradesh.

Dr. Naval Kishor
Convenor

ROBOTICS SOCIETY

Robotics Laboratory in collaboration with **e-Yantra IIT Bombay** has been established in college in current academic year. It was formally **inaugurated on 16th January, 2015** in august presence of principal, faculty members, students and members of e-Yantra project.

This lab is an integral part of efforts by **Ministry of Human Resource Development (MHRD)** through **National Mission on Education through ICT (NMEICT)** to promote education in embedded systems and robotics throughout the country.

Students of Department of Physics and Electronics are working hard to develop various robots which may help the society in various sectors. This will also help the students to establish themselves as innovators and entrepreneur.

A team of students is selected by talent search program initiated by **ANALOG DEVICES INDIA** to **develop an exoskeleton arm that can be worn as biological arm**. This arm may be useful in rehabilitation and physiotherapy centers and warehouses. This project was appreciated by various academicians, scientists and technocrats at various platforms namely **Indian Technological Day (ITD) at Bangalore and Antardhvani (Delhi University) 2015**.

Besides this project, student and faculty members participated and got positions in various competitions at various IITs and other

engineering colleges. Robotics Society also organized a seminar on embedded systems in the college premises.

Dr. Sanjay Malhotra
Convenor

INDO-JAPAN CONFERENCE

Rajdhani College took the initiative in promoting research activities of our college to an international level. Rajdhani College in collaboration with University of Tokyo, Japan. organized an international conference on “Remote sensing of Earth's Atmosphere” which was held in University of Delhi on 5 September 2014. International conference was organized keeping in view the knowledge level of undergraduates students. The talks were presented by Professors, Scientists and research scholars from Japan as well as all over India. The talks were based on climate changes which generated curiosity and interest among students to pursue research in this area. They also got an idea about how to apply for different research activities in India as well as foreign countries.

As a step forward in this direction a MoU has also been signed between Rajdhani college and University of Tokyo, Japan. Besides Tokyo University, other universities and institutes are also collaborating in this MoU viz. Nagoya University, Women's Nara University, NIES (National Institute of Environmental studies). Under this MoU, our faculty will be able to visit University of Tokyo, Japan and vice-versa. This MoU will also help students and faculty of both the nation to exchange their ideas, research work and culture to a great extent.

As a further extension of research activities being planned under this MoU, an instrument is also installed at badouli, Sonapat (Haryana) which would provide information about the emission levels of methane gas in rice paddy fields of India. This data would help in enhancing our understanding about the role of methane as a contributing factor towards global warming. The success of International conference and signing of MoU was possible only due to the great insight and vision of Dr. S.K. Dhaka and complete support of Dr. Vijay Laxmi Pandit Principal Rajdhani College.

Instrument placed at the site with the pictures of Japanese installing them.

Dr. S. K. Dhaka
Convenor

NATIONAL CADET CORPS (NCC)

In keeping the rich tradition of NCC unit Rajdhani College, academic year 2014-15 was also a year of achievement. Cadets of our college participated in various national and regional camps which include:

- (a) Republic Day Camp,
- (b) IMA Dehradun Camp,
- (c) Thal Sainik Camp
- (d) Para Slithering Camp
- (e) Army Attachment Camp (AAC)
- (f) Tracking Camp

Two of our cadets Avinash Kumar and Kalpna marched on Rajpath on Republic Day parade 2015. Our cadets scored various positions at various camps, participated in various social activities initiated by government of India. One of them is Swach Bharat Abhiyan.

Dr. Amit Jain & Dr. Suman Meena
Convenor

NATIONAL SERVICE SCHEME (NSS)

The NSS is promoted by the Ministry of Human Resources and Development and has for its Objective the development of a sense of social commitment in the student. The scheme encourages nationally accepted objectives e.g. pride in being Indian, democracy, socialism, secularism, national integration and development of a scientific temper and work ethos. The students work with NGO's, social work organizations, organize blood donation camps and assist in relief works as and when necessary. In order to create

interest in social service among students and to employ their spare time gainfully, the college NSS unit is active throughout the year in programs like institutional development, blood donation, campus cleanliness, clean Yamuna campaign, hobbies in specialized fields, e.g. painting, music, doll making, etc. NSS candidates actively engaged in Rajdhani College – (Photos shown) Planataion Program Campus Cleaning NSS-Voulanteers

Dr. Naval Kishor
Convenor

EQUAL OPPOURTUNITY CELL

The Equal Opportunity Cell was established by the University of Delhi on 27th June 2006 to address the issues related to SC/ST, the OBC and minorities and the physically challenged on a continual basis. The main problems faced by people viewed as disabled, or with disabilities, or of minority status, stems from disabling environmental, economic and cultural barriers. Disability and minority are therefore equal rights issues on a par with other forms of unjustifiable discrimination and prejudices.

As part of its mission statement, the EOC ensures the following:

1. Affirmative actions concerning SC, ST and OBC
2. A barrier free access to all buildings of Colleges, Departments, Libraries, Hostels and Offices of the University.
3. Smooth and efficient running of a Resource Centre that specializes in addressing the needs of PwDs in all categories including Visual, Hearing, Orthopedic, and Neurological.

Special soft wares and tools for the differently abled students and teachers are provided by the college.

Dr. Mahender Singh Dhaka
Convenor

SWACHCHH BHARAT ABHIYAN

Swachh Bharat Abhiyan campaign was officially launched on 2 October 2014 at Rajghat, New Delhi, Teachers and students of Rajdhani College enthusiastically joined the “Clean India Campaign” and participated with fervor, initiating a week long cleaning drive. In Rajdhani College, this campaign was launched by our Principal Dr. Vijay Laxmi Pandit with Oath ceremony. Students along with principal, teaching staff, and non-teaching staff picked up brooms and started the cleanliness campaign. Initially, a cleanliness week was observed from the 25th of September to the 1st of October 2014, charged with a variety of activities ranging from students wielding the broom and cleaning the academic blocks, identifying innovative ideas to maintain cleanliness, and teachers motivating students to inculcate maintain their surroundings by prioritizing cleanliness in the workplace. Awareness about the significance of cleanliness was also spread through multiple means including 'Nukkad Natak' performed by students of Abhivyakti, various competitions, quizzes and interactive sessions, etc.

In college campus various campaigns have been done to aware the college crowd about the waste management and to keep campus clean by various activities like Campus cleaning drive and slogan march by nss- volunteers.

There is an arrangement of dustbins in whole college campus to dispose waste of different kinds like e waste, biodegradable and non-biodegradable waste.

There are three colour dustbins in college—green colour dustbin is used for Biodegradable Waste, blue one is for non-biodegradable waste and the red-orange colour is for electronic waste (e-waste).

After complete segregation of waste, there is proper disposal mechanism of various wastes like biodegradable including green waste, food waste and paper waste, other biodegradable wastes include human waste, manure, sewage, and slaughterhouse waste.

Non-biodegradable includes glass, plastics and metals, it is the waste will never break down into part of earth, this kind of waste has been a huge Problem for earth.

E-waste involves unwanted, obsolete or unusable electronic product such as computers, computers peripherals, television, VCRs, DVD Players, stereo equipment's and hand cell phones etc.

Biodegradable waste is converted into manure by using compost. **Manure** is organic matter used as organic fertilizer in agriculture. Manures contribute to the fertility of the soil by adding organic matter and nutrients, such as nitrogen, that are trapped by bacteria in the soil.

Non-biodegradable waste is collected by the waste management department of city for proper disposal. E-waste, after extraction of different materials from it, the waste is send to the concerning departments.

Cultural Activities

ANTARDHVANI 2015

Optimisms is the faith that lead to achievement..... university recognized the hard work of students, faculty members and karamacharis of the college under the leadership of our principal Dr. V.L. Pandit this time. College bagged 2nd position in good practise category and received a cash prize of Rs. 7.0 Lacs from the Vice Chancellor and Sri Sri Ravi Shankar.

The theme of this year was the challenges of 21st century and contribution of youth for that. Robotic Society of college spend sleepless night in designing various robots to meet that theme. Besides several startling robots, a biological arm is developed which may be useful in rehabilitation and physiotherapy centres and warehouses. This was widely appreciated by various academicians, scientists and technocrats at **Antardhvani (University of Delhi) 2015**.

Various departments and Equal opportunity cell of the college presented several models.

Two Innovation Projects were also presented at this year Antardvani.

Dr. S. K. Dhaka
Convenor

NORTH EAST STUDENTS' WELFARE COMMITTEE

North East Student's Welfare Committee organized the Orientation Cum Interaction Programme 2014-2015 for the North East Students of our college. Dr. Naorem Santakrus Singh, Deputy Deans of Students Welfare, University of Delhi was attended as the guest of this Orientation Cum Interaction Programme.

All the north East students attended the programme with great

interest and the students performed few programme that reflects the multiple cultural traditions of North East India: Manipuri solo folk song, Tangkhul group song, duet dance by Tangkhul community and cultural folk dance that manifests different tribes.

Dr. S. Santi Nath Singh

Convenor

DRAMATICS SOCIETY–ABHIYAKTI

Abhivyakti means expression. It acts as a catalyst to bring out their hidden talents. It specializes in promoting dance and drama and thus provides an exclusive space for expression to the students of the college. Experts from the field of drama are invited to facilitate drama workshops, script writing training and other street theatre related activities for students and help them in the enactment of various plays for competitions. This Programme is already shaping different possibilities for our students and allowing them to emerge as potential artists.

Abhivyakti the dramatics society of Rajdhani college has performed various nukkad natak on each and every aspect of life starting from our theme of gender sensitization to rape case of damini and then a totally different approach of youth i.e. Yuvaan performing in many places like slums of zakhira to Nokia India fest ansal university than into Delhi school of economics where we came second is big cherish able moment for Rajdhani.

Dr. Mukta Sharma

Convenor

VASANT PANCHAMI CELEBRATED BY SANSKRIT DEPARTMENT

The department of Sanskrit has begun the year by the celebration of *Vasant-Panchami*, title of the event been *Ritu-Raj*. Goddess Saraswati had been felicitated at the same auspicious moment.

Besides that Sanskrit language speaking classes had been conducted in Rajdhani College, with the support of Sanskrit Bharti, Jhandewalan, New Delhi.

Students have participated in various inter-college-competitions. Sanskrit department students were awarded first and second position in shlok recitation and debate competitions held in Shyama Prasad Mukherjee College.

They were awarded second position in Kawwali-competition conducted by Delhi Sanskrit Academy, held in Kalindi College. They have also shown their skill in *Shalaka pariksha*, conducted by Mandakini-Vidwat-Parishad, Gurukul Gautam Nagar, New Delhi by holding a steady third and fourth position in the competition.

Dr. Savita Nigam & Sh. Ashish Kumar
Convenor

LIGP PROGRAMME BY COMPUTER SCIENCE DEPARTMENT

LIGP is a series of motivational presentations designed for Value Education for youth. Department of Computer Science & NSS took an initiative to organize this lecture series in the college. The following four modules were successfully conducted.

Module 1- Life is game Play it. This is the first module of the LIGP program. Here parallels were drawn between a game and life. Motivational videos help us to realize the importance of having a goal in life. The ultimate goal in life is happiness which can be achieved by inculcating values like Love, Peace, Right conduct, Truth and Non-violence. Everyone was encouraged to spread happiness through Random Acts of kindness.

Module 2- Personality Development & Good and great Personality. The meaning of personality was redefined here. Students were encouraged to develop their personality by inculcating good values like determination, discrimination, discipline, sincerity and perseverance. Personality is based more on internal development rather than external appearances.

Module 3- Key to Relationships & Managing stress and Negativity. These topics are very relevant, especially for the youth of today. It was pointed out that the first and most important relationship we must have is with ourself and we must start by

strengthening this relationship. Simple ways were discussed which could improve the quality of relationships in our life. Stress is an unavoidable evil and thus handling it is of utmost importance. The students responded well by attending the presentations in large numbers and had long discussions with the presenters.

Module 4- Community Service. As the part of this module students and teachers visited an old age home, Vanaprastha Ashram in Rohini. Here we get an opportunity to put into practice what we had learnt in the previous modules.

The love, laughter, compassion and enthusiasm filling the atmosphere was indeed heartwarming. The reward of the entire exercise was in the form of smiles and warm hugs from the inmates of the ashram.

Dr. Suruchi Gautam

ECO CLUB

Department of Life Science kept its tradition of organizing various educational and cultural activities for students. Eco-club organized its annual fest "Eco-saksham," which witnessed an enthusiastic participation from students across various departments of the college. The event was inaugurated by Dr. Vijay Laxmi Pandit, respected Principal of the college. The fest was organized on the occasion of World Forest Day, that is, March 21, 2014, and the initiative of planting medicinal plants such as *Ocimum basilicum* (Basil), *Cinnamomum camphora* (Camphor), *Rauvolfia serpentina* (Indian snakeroot), *Cymbopogon* sp. (Lemon grass), *Lavandula* sp. (Lavender), *Bryophyllum*, *Ephedra*, *Bacopa monnieri* (Indian pennywort), etc. in the college campus was taken for the first time in the college history by the respected Principal of the college. The guest speaker Dr. B. C. Sabata, Senior Scientific Officer, from Ministry of Environment, Govt. of NCT of Delhi, held an interactive session on the current environment issues with students. A houseful of students participated in the session and even cleared their queries.

Dr. Ruchi Jain Raina

DISCOURSE : SOCIETY OF POLITICAL SCIENCE DEPARTMENT

Discourse– the Society of the Political Science Department incorporated during the 2014-2015 academic session. As Discourse organized two programs “Debates” and “Politique–The Political Science Quiz” during the academic session 2014-2015. The Topic of the Debates was “Unlimited Right to Expression is necessary for Civil Society’. ‘सोशल मीडिया पर अभिव्यक्ति का असीमित अधिकार नागरिक समाज के लिये आवश्यक है?’ The topic for Politique-The Political Science Quiz was “Think you know everything about Politics & aware about current topics?” Discourse honoured the Winners and the Participants. The winners were awarded with cash prizes. Some consolation prizes were also awarded.

The Office Bearers of Discourse Society are Akash Sethi as (President) Abhishek Kumar (Secretary) Shabeena (Joint Secretary)

Dr. Rajbir Singh

Innovation Projects – 2015

Study of Atmospheric Gas Pollution and UV Radiation

Innovating factor for the present project is the strong connectedness between the environment, health and technology issues. As is well known, pollution causes a number of health hazards. With the depletion of Ozone layer and increase in pollution along with high UV index, life is being threatened. Hence a sensor which can detect the pollution levels and hence warn us of possible problems is the need of the day.

Two light weight nanorods based sensor have been designed using interdisciplinary approach. The AC RD-202 sensor may be used wherever mains power supply is available and DC RD-202 can be used as a handheld sensor for installation in open areas like ground sewer areas and for sensing applications requiring continuous movement. The sensor is based on ZnO nanorods and has good sensitivity for UV radiations and gases. The nanorods provide a very high sensitivity due to large surface area/volume. Wide band gap ($\sim 3.4\text{eV}$) and large binding energy ($\sim 60\text{ meV}$) of ZnO makes it suitable for UV sensing and room temperature luminescent properties.

els ($< 5\text{ sec}$). om temp

A very great achievement for our designed sensor is that it works at ro and can be used to sense toxic gases (2-2000ppm lev) and it has a fast response time Our sensor requires no warm up time as needed in some commercially available sensors (Detector Electronics Corporation, U.S.A. Nanotechnology MOX for H 2S.). The complete sensor has been developed in our college lab starting

from the initial stage of hydrothermal growth of nanorods upto the final stage of circuit designing. Only the characterization has been carried out at labs outside our college.

PIs of the Projects

Dr. Swati Nagpal

Dr. Sonia Lumb

Dr. Manisha Singhal

Dr. Mukta Sharma

Dr. Sweta Gupta

Dr. Vishal Mishra

National Seminar

Two-Day ICSSR Sponsored National Seminar on “Rethinking Assertive Politics in Contemporary Bihar: Caste, Development and Governance” was organized in the college on 20th-21st March 2015 under convenorship of Dr. Nawal Kishore, Associate Professor, Department of Political Science. The seminar brought together various academicians, grassroots campaigners, media persons and policy-makers to engage in critical discussions on different concerns of caste, development and governance. Keeping in view of the experience of one state i.e. Bihar in the recent decades, this seminar discussed on these contemporary issues in national perspective. The seminar focused on a number of issues including the changing structure of caste and class relations and their importance on rural transformation of the economy on the one hand and how this, in turn, has been shaped by the overall policy of the various governance structures on the other. The objective of this academic exercise is to bring out a report on the working history of assertive politics in the contemporary Bihar and its interconnecting implications for overall development and governance in Indian context.

Dr. Nawal Kishore,
Associate Professor, Department of Political Science

Sports Achievements

The Physical Education and Sports Department believes that sport and exercise are essential parts of our culture and contribute significantly to healthy and satisfying lifestyles for people of all ages. It is our goal to provide opportunities for the College community in a variety of exercise/performance activities from a theoretical and practical base that will bring enjoyment and essentials for successful participation. We have respected sports as a way of life and not just as a diversity routine to pump in funds.

- Our admission process began in June 2014.
 - To enhance student's wellbeing, participation and attendance, promote healthy lifestyle options throughout sporting programs such as Intramural/Interclass Sports Competitions. Intramural Sports provided a variety of sports i.e Cricket, Volleyball, Chess and Football etc. to increase interest and participation at intra and inter College level. It encourages those students who have proficiency in sports and for those who want to join sports activities including all the general students to promote mass participation, round the year and provide these students' opportunities to further represent at State, National and International championships.
 - To have healthy interaction amongst the students, teacher and karamcharies, we bring them under one umbrella by organizing various sports activities.
 - The Department covers Infrastructure facilities, Refreshments, Playing Kits, conveyance and grants. All of these are provided throughout the year to encourage everyone to play and participate as a life-long choice to stay active and connected. We want them to have experiences which send them out into the world having

learnt valuable skills around teamwork, leadership, socialization and being strong role models. Along with all these achievements, our college has organized intercollege cricket tournaments. The department has also renovated the Cricket Net Pitch for the safe and efficient training of our young cricket players.

- We are in a society which places great emphasis on winning medals and a number of College athletes have recently been successful at the International, National, Intercollege and Delhi State Championship etc. While we are extremely proud of these achievements, as a Department we are just as proud and focused on providing opportunities for everyone to participate and being nurtured every year.

The following teams have participated in different tournaments for the Year 2014-15.

- Athletics
- Cricket
- Chess
- Handball
- Football
- Taekwondo
- Shooting
- Volleyball
- Yoga

In the Pursuit of Excellence

AJEET KUMAR JHA - Most Outstanding Player. A CRICKETER from B.A. Programme, 3rd Year. He has been a perfect example of what means 'Outstanding'. He has proved his mettle in various tournaments of Cricket. He is a leader who leaves a trail where there's no path. Currently represented as a Captain of "Pelician Cup Junior Ranji Trophy U-23" held in South Africa in 2014 and secured 1st Position for Delhi Team. He has also participated in DDCA League, Advanture Cup, JK Tyre Cup, Inter College.

ANKIT DAHIYA – An ATHLETE from B.A. Hons. (Political Science) 2nd Year possesses good amount of Professional experience in the field of Athletics. Medalist of various competitions. With a good sports record, Ankit Dahiya Participated in Junior National Athletics Championship held in Vijayawada, Andhra Pradesh in November 2014. Also represented in North Zone Junior National Athletics Championship held in Lucknow, UP in September 2014. He secured 1st Position in Inter College Athletics Championship in Discus Throw event held in Polo Ground, Delhi in 2014, 3rd Position in Inter College Athletics Championship in Shot-put event held in Polo Ground, Delhi in 2014, 2nd Position in Delhi State Athletics Championship in Discus Throw event held in JNS, Delhi in 2014, 3rd Position in Delhi State Athletics Championship in Shot-put event held in JNS, Delhi in 2014, and also Participated in Inter College Handball Championship held in Polo Ground, Delhi in 2014.

SIDDHARTH RAO, ATHLETE from B.A.Hons. (History) 2nd Year, secured 3rd Position in Inter College Athletics Championship in Discus Throw event held in Polo Ground, Delhi in 2014. He also participated in Inter College Handball Championship held in Polo Ground, Delhi in 2014 and in Inter College Athletics Championship in Shot-put event held in Polo Ground, Delhi in 2014.

HARI KRISHAN, SHOOTER, from B.A. (H) Political Science 2nd Year, represented at Nanital Level Shooting Competition 2014. He secured 6th rank in Pre National shooting Competition & 2nd Rank in State Shooting Championship 2014.

SANJAY KUMAR, VOLLEYBALL PLAYER from B.A.Hons. (Sanskrit), 1st Year, doing ordinary things extraordinarily well is just one bit of Sanjay's excellence. Versatile and always at his best, Sanjay is National Position holder. He secured 3rd Position in First student Olympic National Volleyball Championship held in Muksar, Punjab in 2014. He also secured 3rd Position in Delhi State Junior Volleyball Championship held in Laxmi Public School, Karkarduma, Delhi in 2014. He participated in Delhi State Senior Volleyball Championship held in Delhi Police Ground, Kingsway Camp, Delhi in 2014 and in Inter College Volleyball Championship held in Keshav Mahavidhyalya, Delhi University, Delhi in 2015.

SUMIT KUMAR, AN ATHLETE from B.A.Hons.(Hindi) 1st Year, won 3rd Position in Inter College Athletics Championship in Hammer Throw event held in Polo Ground, Delhi in 2014 and also participated in Inter College Athletics Championship in Javelin event held in Polo Ground, Delhi in 2014.

The Department's work wouldn't be possible without the valuable committee we have formed. A committee of distinguished and accomplished members, who worked in a collaborative and collegial manner, gave so generously of their time and expertise. So, we thank them all for working with us in such a spirit of cooperation. Thank you to all those that volunteered their time - This includes the student volunteers, Sports staff, office staff, Management Board, Council Members and all our other members of our College family. A special thanks to our Convener, Sports Committee Dr. Sanjay Malhotra.

Rajdhani College boasts one of the best sport supporting systems. Our Principal, **Dr. Vijay Laxmi Pandit**, is talented and passionate about sports and recreation and we appreciate the support she provides. Our special thanks to her for her enthusiasm.

Richa Malhotra

Department of Physical Education and Sports

Library

Our library has more than one lakh scholarly books on various subjects and subscribes 28 newspapers and around 55 magazines and research journals. In addition to this our college library is also a member of N-List program of UGC INFONET, through which the users of the library can access 6000+ e-journals and 97000+ e-books. Reading room of the library has been fully air conditioned. Under automation process of the library online public access catalogue has already been started and remaining process will be completed in the coming academic session. An exclusive reading corner has been introduced for differently abled students and teaching staff, where internet enabled computers will be made available for them. Two library staff underwent a training programme conducted by DU for providing better services to physically challenged students. On the golden jubilee year of the college our library organized two days book exhibition for students and faculty members in the college campus.

Sanjeev Kumar Sharma
Librarian

ACADEMIC RESULT 2013-14

Course	Pass (%)
B.A. (H) English I Year	92
B.A. (H) English II Year	88
B.A. (H) English III Year	97
B.A. (H) Eco. I Year	97
B.A. (H) Eco. II Year	83
B.A. (H) Eco. III Year	97
B.A. (H) Pol. Sc. I Year	99
B.A. (H) Pol. Sc. II Year	96
B.A. (H) Pol. Sc. III Year	100
B.A. (H) History I Year	98
B.A. (H) History II Year	100
B.A. (H) History III Year	100
B.Com (H) II Year	92
B.Com (H) III Year	100
B.Sc. (H) Physics I Year	95
B.Sc. (H) Physics II Year	95
B.Sc. (H) Physics III Year	100
B.Sc. (H) Chemistry I Year	97
B.Sc. (H) Chemistry II Year	87
B.Sc. (H) Chemistry III Year	100
B.Sc. (H) Electronics I Year	-
B.Sc. (H) Electronics II Year	95
B.Sc. (H) Electronics III Year	100
B.Sc. (H) Mathematics I Year	96
B.Sc. (H) Mathematics II Year	89
B.Sc. (H) Mathematics III Year	99

Course	Pass (%)
B.Sc. (H) Physical Science (Chemistry) I Year	-
B.Sc. (H) Physical Science (Chemistry) II Year	82
B.Sc. (H) Physical Science (Chemistry) III Year	100
B.Sc. (H) Physical Science (Electronics) I Year	-
B.Sc. (H) Physical Science (Electronics) II Year	72
B.Sc. (H) Physical Science (Electronics) III Year	98
B.Sc. (H) Physical Science (Computer Sc.) I Year	-
B.Sc. (H) Physical Science (Computer Sc.) II Year	83
B.Sc. (H) Physical Science (Computer Sc.) III Year	100
B.Sc. (H) Physical Science (Industrial Chem.) I Year	-
B.Sc. (H) Physical Science (Industrial Chem.) II Year	78
B.Sc. (H) Physical Science (Industrial Chem.) III Year	100
B.A. (PROG.) II Year	92
B.A. (PROG.) III Year	69
B.A. (H) Hindi I Year	93
B.A. (H) Hindi II Year	86
B.A. (H) Hindi III Year	76
B.A. (H) Sanskrit I Year	81
B.A. (H) Sanskrit II Year	53
B.A. (H) Sanskrit III Year	7
B. Com. (H) I Year	97.7
B. Tech. Electronics	100
B. Tech. Computer Sc.	96
M.A. (Previous) Hindi	100
M.A. (Final) Hindi	84
M.A. (Previous) History	81
M.A. (Final) History	57
M.A. (Previous) English	80
M.A. (Final) English	nil
M. Com. (Previous)	81.25
M. Com. (Final)	54