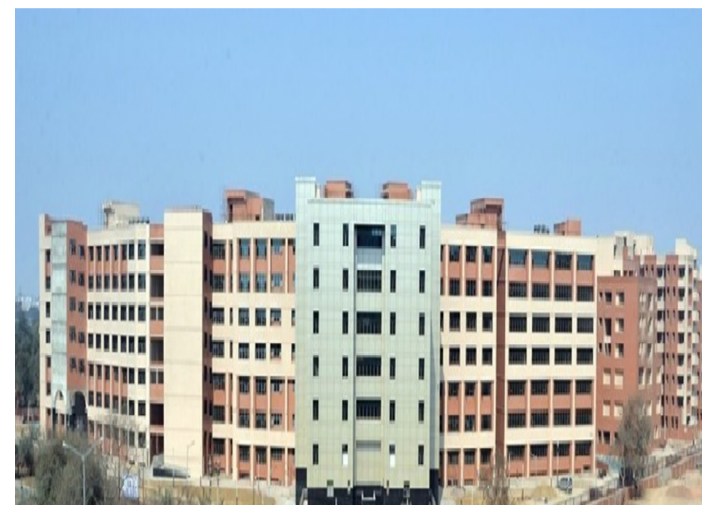


## COLLEGE FORMAT FOR THE 99<sup>th</sup> ANNUAL REPORT

### University of Delhi



- **Name of the College**

**Deen Dayal Upadhyaya College**

- **Brief history of the College**

Deen Dayal Upadhyaya is a constituent college of the University of Delhi. The Government of National Capital Territory of Delhi established the college in the year 1990 in Karampura. The college receives 100% grant from the Govt. of NCT of Delhi and is recognized under 2 (f) and 12 (b) of the UGC Act. We cater to the students of Delhi as well as neighboring states, particularly Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh and Bihar. Recently we have shifted to our new campus in Sector-3, Dwarka. We offer nine under-graduate Honours programmes in Computer Science, Electronics, Physics, Chemistry, Botany, Zoology, Mathematics, English, Commerce and Bachelor of Management Studies. Further, we also run bachelor's programme in physical science, Life Science, mathematical science and Bachelor in Arts. We also offer Add-on courses in Russian Language and Effective Communication and Personality Development through Theatre (ECPDT) which are very popular amongst students. Recently, we have started a certificate course in French. Our faculty members, including the Principal, have been members of the Academic and Executive councils, Boards of Research Studies, Departmental Committees of Courses as well as syllabi drafting committees. The student strength is 2531 of which 1422 are male and 1109 female. Built on a plot of 7.7 acres in Sector 3, Dwarka the new campus of the college is a state of the art building. It is a multistory building (basement + 7 floors) with many features of a green building. Rain water harvesting system and water recycling plant are already in place. We intend to use the roof tops for generation of solar power and install a waste treatment plant for addressing the issues of bio-waste disposal.

- **Major Activities and Achievements**

At Deen Dayal Upadhyaya College, students do not just focus on academics but also are groomed in all dimensions required to compete in the fast-growing technological world. Several curricular, co-curricular and extra-curricular activities are conducted by the Student Activity Boards, Subject Societies and Clubs. • The college achieved the distinction of being ranked 11th among Science colleges, 17th amongst Commerce colleges, and 37th amongst Arts colleges in India by the India Today-MDRA Best Colleges Ranking 2022. • The college has been ranked 21st out of 2270 colleges participating in the NIRF India Rankings 2022 conducted by the Ministry of Human Resource Development (MHRD). • The pass percentage in the university examination held in May/June 2021 was 99.87% (788/789). • The students also won laurels in extracurricular and sports activities. Under the auspices of NSS, students participated actively in Civil Defence and Disaster Management programmes, election awareness campaign and creating tobacco free communities. In the outreach programme the college worked for the benefit of under-privileged children from slum colonies by adopting a colony and also for the disabled including Visually-Challenged and Spastics. The NSS unit also organized cultural programmes and sports events for differently abled.

- **Honours/Distinctions**

a. • Dr. Nupur Verma was among the top five scorers in a research course named "Atomic Astrophysics and Spectroscopy with Computational workshops on the SUPERSTRUCTURE and R-matrix codes" held online by OHIO STATE UNIVERSITY USA under INDO-US APJ Abdul Kalam STEM education and research centre of AMU, October 16-31, 2021. • Dr. Nupur Verma was deputed by the Department of Atomic Energy, Government of India on invitation by International Atomic Energy Agency (IAEA), Vienna, Austria to present talk at "The 2nd Meeting of the Global Network for the Atomic and Molecular Physics of Plasmas GNAMPP" 6-9 December 2021, Austria with participants from 21 countries. • Dr. Sudhir Verma was appointed Academic Fellow, Institute of Lifelong Learning, University of Delhi (2021-22). • Dr. Sudhir Verma received S. K. Mahajan Award 2021 for the popularization of Scientific pursuit from HBCSE, TIFR, Mumbai under stemgames.metastudio.org initiative. • Dr. Ratnesh Rajan Saxena was elected as Member-Academic Council of the University of Delhi for 2021-2023. • Dr. Lalit Kumar was appointed Member of Arts Faculty, University of Delhi for 2021-2023.

• **Students with Distinctions**

S.No.	Name of Students	Class
1	Ram Shankar R, Monika, Pulkita, Juhi Goyal, Harshita Dalmia	B.Sc. (H) Zoology B.Sc. (H) Botany B.Sc. (H) Chemistry B.Sc. (H) Mathematics B.Sc. (H) Comp Sc.

• **Publications**

1. • Chopra, R. Kumar, A. Saxena, R.R,(2021) ,An Efficient Enumeration Technique for a Transportation Problem , *Neutrosophic Environment, Neutrosophic Sets and System* , 47 , NA , 354–365
2. • Rakesh Kumar,(2022) ,."India-China: Changing bilateral trade and its effect on economic growth" , *Singapore Economic Review* , 7 , 66 , <https://doi.org/10.1142/S021759081950005X>
3. • Nupur Verma,(2021) ,Energy Levels, Radiative Data and Collisional Excitation of Chlorine like Tungsten , *Journal of Atomic, Molecular, Condensed Matter & Nano Physic* , 2 , 8 , 113–132
4. • Priya Goel and Sudhir Verma ,(2022) ,Can simulated models take over hands-on dissections? A survey on student perspective? , *Indian Journal of Applied Research* , 6 , 12 , DOI: 10.36106/ijar
5. • James A. and Yadav D. ,(2022) ,Bioaerogels, the emerging technology for cleaner, sustainable wastewater remediation: A comprehensive review on synthesis, properties and applications , *Environmental Research* , NA , NA , [doi.org/10.1016/j.envres.2022.112963](https://doi.org/10.1016/j.envres.2022.112963)
6. • Anupama Anand, Reeta, Dipendra Singh Rawal, Rakhi Narang, Meena Mishra, Manoj Saxena and Mridula Gupta,(2021) ,A comparative study on the accuracy of small-signal equivalent circuit modeling for large gate periphery GaN HEMT with different source to drain length and gate width , *Microelectronics Journal* , 118 , October 2021 , doi: <https://doi.org/10.1016/j.mejo.2021.105258>.
7. • Preeti Singh, Vandana Kumari, Manoj Saxena and Mridula Gupta,(2021) ,TCAD investigation for Dual-Gate MISHEMT with Improved Linearity and Current Collapse for LNAs, *IETE Technical Review* , *IETE Technical Review* , NA , November 2021 , doi: 10.1080/02564602.2021.1997362.
8. • Upasana, Manoj Saxena and Mridula Gupta,(2022) ,Undoped Drain Graded Doping (UDGD) based TFET design: An innovative concept , *Superlattices and Microstructures* , NA , January 2022 , doi: 10.1016/j.spmi.2021.107147
9. • Neha, Vandana Kumari, Mridula Gupta, Manoj Saxena,(2022) ,Investigation of proton irradiated dual field plate AlGaIn/GaN HEMTs: TCAD based assessment , *Microelectronics Journal* , NA , 122 , doi: <https://doi.org/10.1016/j.mejo.2022.105405>.
10. • Meghna Aggarwal, Nidhi, Nupur Tyagi ,(2021) ,Money management skills of people amidst the pandemic , *Journal of Commerce and Trade* , 2 , 16 , 18-22

• **Journals**

1. NA,(NA) ,NA , NA , NA , NA , NA

• **Research Projects(Maximum 5)**

1. DRDO, NA, Fabrication of Lamb Wave Devices on SiO<sub>2</sub>/Si Membrane for Strategic Applications. , Rs. 428 lakh
2. CARS, DRDO , one-year project , Layout Optimization and Thermal Analysis Switching Applications and LNA Design, Rs. 23 lakh
3. UGC, a two-year project , Solution Based Synthesis of Graphene Quantum Dots and Study of Photoluminescent Emission Property., Rs. 6 lakh

4. UGC, a two-year project , Magnetically active ionic liquids: Design, Synthesis and their Applications in Organic., Rs. 6 lakh

5. UGC, a two-year project , Magnetically active ionic liquids: Design, Synthesis and their Applications in Organic., Rs. 6 lakh

- **Patents Filed/Granted**

1. One and •Prof. Anurag Mishra got Australian Innovation Patent for Color image water marking scheme using partial homomorphic crypto system in ASWDR compressed domain.

- **Seminars Organized(Maximum 5)**

1. Mr. Syed Jafri, Hedge Fund Accountant in State Street Corporation, • Webinar on Roadmap to Financial Service Industry, Financial Service Industry , 10-02-2022

2. Dadhichi Tripathi, Finance Manager in major E-com Company, Placement Extravaganza, Placement , 14-05-2021

3. Ms. Suravi Pradhan, Assistant Manager, HSBC, All about Equity Trading and Decision Making , Equity Trading , 05-09-2021

4. Dr. Sanjiv Das, Bombay Stock Exchange, Do Chart Patterns Work? , Equity Trading , 11-10-2021

- **Conferences Organized(Maximum 5)**

1. Microbes in Sustainable Development, 15-11-2021, INSCR

2. Sustainable Environmental Perspectives: A Journey from Ancient India, 05-06-2022, DDUC

3. International Conference titled Corporate and Economic Transformation: Embracing the Change , 24-03-2022, DDUC

4. MICROSHERE-An International Outreach Program , 17-09-2021, DDUC

5. Intellectual Property Rights in Education and Research, 16-02-2022, DDUC

- **Seminar/Conference Presentations(Maximum 10)**

1. • Dr. Lalit Kumar, delivered a talk titled "Lawrence in Mexico: The Myth of Sheshnag and Quetzalcoatl" at an online international webinar "Mapping Modernism: Movements and Concepts, organised by department of English, MSCB University, Keonjhar on 7 August 2021. • Dr. Lalit Kumar, delivered a talk on translation in a national seminar "National Consciousness and Translation" organised by Rajdhani College, department of English on 30 September 2021. • Dr. Lalit Kumar, delivered the keynote address at a national Webinar titled "Passages through India: Literature, Travel and the Subcontinent, organised by Department of English, Maharaja Sriram Chandra Bhanjdeo University on 17 March 2022. • Dr. Poonam Garg attended and presented a contributory paper entitled "On bounds for 2-Repeated burst error detection and single burst error correction" at the UGC-Sponsored Two Day National Conference on "Advanced Statistics and Applied Sciences - 2022 (ASAS - 2022)" held from 30th - 31st March, 2022. • Dr. Meghna Aggarwal and Dr. Pramod Kumar presented a paper titled Fintech – An Innovative Technology for massive Transformation in the World Women Conference-IV organized by Mata Sundri College for Women, University of Delhi on March 8-9, 2022. • Dr. Meghna Aggarwal and Dr. Pramod Kumar presented a paper titled Fintech –Reforming the Financial Ecosystem during the International Conference on Corporate and Economic Transformation- Embracing the Change organized by the Department of Management Studies and the Department of Commerce, Deen Dayal Upadhyaya College, University of Delhi in association with Kautilya Foundation on March 24-25, 2022. • Dr. Nupur Verma delivered a talk titled Atomic Structure Calculations and electron Impact Excitation of Chlorine like Tungsten Ions at the 2nd Meeting of the Global Network for the Atomic and Molecular Physics of Plasmas GNAMPP on 6-9 December, 2021 at Vienna, Austria organized by International Atomic Energy Agency (IAEA). • Dr. Priya Goel presented a paper on "Vermiculture Technology: A step towards Waste Management and Climate Resilience" in National Conference on 'Sustainable Environmental Perspectives: A Journey from Ancient India' organized by Environmental Studies and Department of Botany, Deen Dayal Upadhyaya College, University of Delhi (online) 05-06 June 2022. • Dr. Priya Goel presented a paper on 'Determination of Correlation Between the Concentration of Chlorpyrifos and the Efficacy of Immune System in Averting Parasitic Infections' in an International Conference on Infections and Immunity organized by Daulat Ram College, University of Delhi (online) 08-10 October 2021.

- **National/International MoUs Signed**

a. • Memorandum of Understanding (MoU) for Institutional Collaboration between Deen Dayal Upadhyaya College (University of Delhi) and CSIR–Central Engineering Electronics Research Institute (CSIR-CEERI) was signed on September 08, 2020 to encourage the development of the following exchange programs based on their respective academic and educational needs. It still continues.

- **Other Inter-Institutional Collaboration**

NA

- **Student under Exchange Program(Inbound)**

NA

- **Student under Exchange Program(Outbound)**

NA

- **Other Inter-Institutional Collaboration**

NA

- **Number and percentage of students placed**

117 and 60 per cent

- **Number of Companies visited for campus recruitment**

53

- **Extension and Outreach Activities**

- International Outreach program on occasion of international microorganism day on 17th September, 2021.
- MICROSHERE-An International Outreach Program on 17th September, 2021.
- Stationary Drive ( 18th July,21)- With the collaboration of Helping Hut NGO, volunteers distributed some educational and stationery products and refreshment kits to the differently abled kids of Prerna Niketan Sangh. 20 NSS volunteers participated and distributed stationary items to 50+ children.
- Swacchta pakhwada ( 1st to 15th September):-Under Swachhata Pakhwada , more than 50 Volunteers participated under each activity. Activities that we conducted are named below: Plog Run (Picked litter while running and awaring people), Swacchta pledge, Hold Your Slogan Competition, Cleanliness Drive(volunteers cleaned their surroundings), webinar on Cleanliness and Women Sanitation, Plantation drive (in college premises and sec-13 park, Dwarka),
- Voter's Day Pledge ( 25th January'22) – More than 70 volunteers participated in voters day pledge.
- Girl Child Day( 24th January'22) – Activities named Selfie with Daughter and Artsy (showcased their views and feelings through different artforms) conducted on national girl child day.30+ volunteers participated.
- Cloth distribution drive (24th September, 21) - We organized a cloth distribution drive on NSS day at slum area of sector 13,Dwarka. In which we donated our old clothes to needy people. Number of beneficiaries- 50
- Food Donation Drive: 29th October'21- On occasion of Diwali in collaboration with " Robin Hood army" , distributed 250+ ready to eat Dalia and Upma packets in slum areas of sector 22&23,Dwarka. 20+ volunteers took part in this initiative.
- Clothes Distribution Drive:- 30th October,21 – Distributed clothes in Dwarka Sector 5 and Sector 12 among labourers and unprivileged people.20+ volunteers took part in this initiative.
- Vocal for local:- 2nd November'21- We bought diyas and sweets from our local vendors and gave them to labourers and sweepers to support and make their Diwali a happy Diwali.. No.of entries- 30.
- Sweets Distribution:- 4th November'21- volunteers distributed sweets to labourers and home workers.
- Project care : The project was commenced in order to address the issue of mental health. Many activities were conducted throughout the year to help people in managing and balancing their mental health and life. Activities conducted under Project are:
- Instagram stories- Regularly stories were put up to ask questions regarding problems pertaining to their daily lives and well-being.
- Practice of positivity(10th August'21)- In collaboration with Emo Matrix. Number of participants- 70
- Impractically Practical 10th October' 21)- on occasion of World Mental Health day, session to deal with failure. Number of participants- 70
- Project Samavedana:-It is related to an Empathic Approach towards Vulnerable animals. Activities conducted under it are :- →Animal feeding programme ( 5th to 15th August'21) – feeding is the most humane thing anyone can do. Time to Time animal feeding activities introduced to volunteers ,48 volunteers participated. And again ( 1st to 10th September) – 54 volunteers joined →No more homeless mission- 22nd to 31st December '21:- "Ashiyaan" During Christmas our volunteers became Santa of vulnerable animals by making shelter for them.
- Poshan Abhiyan- Nutrition week ( 1st to 7th September' 2021) – Yoga for Nutrition workshop conducted in collaboration with NSS NSUT Cell,300 participants joined session, and Poshan Pakhwada'22( 21st march to 4th april'22 ) under this a survey was conducted in JJ Colony, Dwarka to check and aware parents related to their children's vaccination process.20 volunteers took part in this survey.
- Project Naari- Women are the embodiment of beauty, strength, and sacrifice. With the aim of prioritizing women's upliftment and setting them free from the taboo that circumscribe them. Activities conducted under it are as follows: →Sanitary Pad Distribution Drive- 15th October'21 : Volunteers donated sanitary pads to women laborers of their surroundings. No. of beneficiaries -50 →Webinar on sustainable Menstruation- 17th Nov'21 in collaboration with Bleed Green Organised awareness session on sustainable menstruation in which our guest speaker Ms. Mitushi educated participants to use sustainable products during menstruation and do their part for sustainable future. 50+ participants joined session. →Health is Everything-28th December '21- In collaboration with ANS Trust organised awareness session on women health. More than 50 participants joined session. →Women's Day discussion on World Women's day( 8th March'22).
- Project Khausal- with the motto of Skills to Educate, Empower and Earn , we provide platform to our volunteers and needy people to gain some skills and get empowered.
- Workshop on content writing (24thFebruary'22)- Content Writing is basic need of today so we conducted workshop in which Ms. Tanishka a professional content writer, 50+ participants joined session.
- NSS Leadership Program( 11th January'22) : On occasion of youth day ,we Organised workshop in collaboration with Team Dekode Yourself in which 100 participants participated from all over India.
- Webinar on national science day(28th February '22) conducted under this project
- Project Chhoti Shuruaat- A project where we work for sustainable future. →Holi celebration( 15th to 18th March'22) – "An organic colour making at homes" Organized

for volunteers. Number of entries- 10 • Camps- Voter I'd making camp (29th and 30th September'21) – In association with District Election Officer/DM of South West district was organised. More than 200 joined and made their voter id. Eye check-up camp with Eye- to Eye- ( 6th April'22) – organised Eye camp in college. Total no. of participants- 150+ Blood Donation camp:- 28th April'22- In association with globally integrated foundation for thalassemia. 60 volunteers donated the Blood. • PEHAL'22 (Annual Fest) - 26th and 27th April'22 Day 1:- Organised 4 events named Presentation Based Competition, Best out of waste, Great Treasure Hunt Event and Emotional Quotient Test. 300+ participants registered themselves for day-1. Day 2:- Sharing smiles:- Children of Prerna foundation were invited in our college and provided with a platform to perform. Day started with talent hunt for children where our volunteers interacted with them after it lunch and game session held. By the end, cake cutting ceremony held with principal and stationary items were distributed among 33 children of prerna foundation. • International Yoga day: 19th to 21st June, 22- This year's theme was "Yoga for humanity" On occasion of 8th International Yoga day, NSS DDUC conducted a Three Days Yoga camp in collaboration with Student Service Center. Also organized lecture session and Inter College Slogan writing and Poster Making Competition.

- **Library Development**

The Library has been successfully undertaking automated operations since last more than one & a half decade using professional database management software through a network of client-server system. It has up-to-date bibliographic database of books and journals. The library has added 1667 volumes of books this year, making its total collection as 49,188 volumes. It subscribed to 30 journals & magazines of national and international repute in the relevant subject areas. Besides this, the library subscribed to 13 national newspapers. The entire collection is heavily used by the students and faculty with a footfall of approx. 35000 visitors, resulting in 25000 transactions of volumes of books in the preceding year. Around 82 students of the weaker-section were also issued books under book-bank facility. The other activities undertaken by the Library during this period are as follows: • The Library held its User Orientation Program on 20th November, 2021, for the new batches in online mode in different sessions. • The Library compiled two issues of Bibliography comprising of new titles acquired during the FY 2021-22. • It also compiled four issues of Table of Contents comprising of content pages of all the issues of magazines & journals subscribed in the library. • It prepared and compiled four Documentation List on different relevant topics of interests, namely AatmaNirbhar Bharat; COVID 19; NEP 2020 and Political & Military Conflict between Russia and Ukraine. • The Library added institutional membership of resource sharing network DELNET which augments its print and e-collection as well as other services. • The Library has become member of Suganya Pustakalya whereby reading materials in the form of audio books etc. are made accessible to students belonging to PwBD Category. • It also organized a book exhibition during 27th-28th January, 2022, in which as many as 13 prominent publishers and vendors participated. A list of useful web-links of many scholarly digital repositories were compiled and shared with students and faculty. It also made available to students and faculty the Login-ID for subscribed e-resources under N-LIST program of UGC-INFLIBNET. Remote Login-ID was also provided to interested faculty members for access to e-resources subscribed by the Delhi University Library System.

- **Faculty Strength**

- There are 122 (permanent) +2 (EVS) sanctioned posts against which 92 teachers on regular basis and 30 teachers on adhoc basis are working.

- **Financial Allocation and Utilization**

- (a.) Rs.40, 37, 35, 834/-

- (b.) Rs.40,37,35,380/-

- **Other Significant Information**

- **Name of Coordinator**

- Lalit Kumar

- **Email of Coordinator**

- lalit.kumar@ddu.du.ac.in

- **Contact no of Coordinator**

- 9718660962