

P.G.D.A.V. College

University of Delhi

Nehru Nagar, Ring Road, New Delhi - 110065

Website: http://pgdavcollege.in

Email: pgdavcollege.edu@gmail.com

Supporting document

for

Annual Quality Assurance Report, 2022-23 Criteria 2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Table of Contents

S.No.	Particulars	Page number
1	Department-wise details of student centric methods, such as experiential learning, participative learning and problem solving methodologies used for enhancing learning experiences	3-7
2	Activities conducted by Satark/ Consumer Club of PGDAV	8-12
2	Activities conducted by Department of Economics	13-17
3	Activities conducted by Department of History	18-19
4	Activities conducted by Department of Mathematics	20-23
5	Activities conducted by Department of Statistics	24
6	Activities conducted by Department of Environmental Science	25-27
7	Activities conducted by Department of Sanskrit	28
8	Activities conducted by Commerce Department	29-33
9	Activities conducted by Department of Computer Science	34-36
10	Activities of PGDAV featured in print media	37-38

Department-wise details of student-centric methods

Department	Methodology used for experiential learning, participative learning and problem solving methodologies	
Economics	The Department organised several engaging sessions and activities to promote experiential learning, participative learning, and problem-solving methodologies. These included a research paper writing session led by Ms. Surily Sahay, a discussion on global economic issues and India's G20 presidency with Dr. Sanjaya Baru, and various activities related to G20 priorities. Ecolligence 2023, the annual fest of the Economics department of PGDAV college featured a talk by an eminent economist, invited and contributed research paper presentations and a debate competition. Additionally, a short-term certificate course on 'Data Analysis Using R' was offered for beginners with no prior knowledge of the R programming language. These initiatives provided diverse opportunities for students to learn through hands-on experiences, participation, and problem-solving activities.	
History	The Department of History organised a series of academic events to enrich students' learning experiences. The Paper Presentation competition, 'Monologue,' explored how cinema influences the representation of Indian history, encouraging experiential and participative learning. The 'Fact Hunt' quiz competition tested historical knowledge about polity, society, and social movements from 1850 to 1950, promoting interactive learning and problem-solving. A talk by Prof. Makkhan Lal shed light on preserving historical accuracy and highlighting unsung heroes, fostering critical thinking. Additionally, a one-day National Seminar focused on the significance of the Tomar and Chauhan Rajvansh in Delhi's history, promoting research and knowledge exchange. These events collectively contributed to a well-rounded educational experience.	

Mathematics

One Day National Workshop On Vedic Mathematics was organised by the Department of Mathematics, P.G.D.A.V. College (M) in collaboration with Shiksha Sanskriti Utthan Nyas on 30th August 2022. The workshop was organised on this useful and interesting topic at the time when Vedic Mathematics has become a part of the NEP syllabus. Teachers were trained and motivated for the forthcoming Vedic Mathematics VAC paper under NEP 2022. Department also organised counselling sessions for students of the college. The session was regarding JAM, the IIT entrance exams. Speakers shared their wisdom and expertise with students, practical tips and strategies that students can use to prepare for these exams, including how to manage their time effectively, the importance of practice tests, and how to stay motivated throughout the process.

On the 13th of April the Anant Mathematics Society, organised its annual Inter-College mathematics fest, Spectrum 2023, where they celebrated the spirit of learning and creativity. The event consists of a series of fascinating mathematics games.

Statistics

The Statistics Department of P.G.D.A.V. College organised its annual festival "SKEWSION'23" on 11th April,2023, which included a range of activities such as invited talk by prominent statistician, paper presentation competition, chess competition, statistics guessing quiz and anime quiz. The event was aimed at providing a platform for students to showcase their skills and talents in various fields, as well as to gain knowledge through invited talk.

Prof. Anish Sarkar from the prestigious Indian Statistical Institute, Delhi delivered a talk on the topic "From Real world to Statistical world" He provided valuable insights on how to apply theoretical knowledge to practical situations.

Young Researcher's Forum, a paper presentation competition was held in which students from various colleges/ universities presented their research papers on topics related to statistics, mathematics, computer science and economics. The competition provided a platform for students to showcase their research skills and encouraged them to think critically.

Simultaneously, Battle of kings- a chess competition, Taboo De Statistica- a statistics quiz, Otaku's rumble-an anime quiz, was held in the event.

The event was an excellent opportunity for students to engage in various brain-stimulating activities and further their academic and professional growth.

,

Environmental Science

The department of Environmental studies engages its students through various student centric methods including lectures, powerpoint presentations, interactive sessions, photographic and video graphic illustrations, field activities, laboratory practicals, powerpoint presentations, group discussions and project submissions by the students. The department actively organises international/national seminars, lectures, workshops and interactive sessions with the field experts The department works extensively in creating environmental awareness among students through the Environmental society Geo-crusaders and observing environmentally important days through organising subject related competitions, talks, workshops, quizzes, debates and other related activities. Our department imparts a wide array of skills to the students ranging from soft skills to prospecting, E-waste mining, food waste and by-product utilisation to promote the concept of sustainable living, circular economy and urban mining. Hands-on training is provided to students to segregate and manage their household waste through composting, prospecting e-waste as a valuable resource through laboratory practicals. The students are trained to make valuable products such as vermicompost from garden waste, bio enzymes from food waste, incense cones from flower waste etc. in the college premises. Our students also actively participate in organising waste paper collection drives and have conducted training sessions at NGO Shakti Shalini and at MCD South Zone office through their outreach programs under ENACTUS chapter to make upcycled products to earn their livelihoods.

Commerce

The Department of Commerce at P.G.D.A.V. College conducted a diverse array of events during the 2022-23 academic session. Notable activities included a short-term certificate course, "The Indian Contract Act-1872 & Remedies for Breach of Contract," which ran from January 16 to February 3, 2023. They also hosted a seminar called "DEMYSTIFYING MBA" on August 29, 2022, and another seminar focused on "Financial Literacy among India's Youth" on September 23, 2022. In addition, there was a seminar on "Risk Management" on January 11, 2023, and a visit to SEBI took place on September 7, 2022. The collaboration continued as SEBI visited P.G.D.A.V. College to celebrate "World Investor Week 2022" on October 12, 2022. To further enrich the students' experience, the college organised "Youth Conclave 4.0: Rediscovering Bliss" on January 19, 2023. These events served as valuable learning opportunities and exposed students to various facets of commerce and finance.

An international series of webinars organised by Dept. of Computer Science, PGDAV College was hosted on the Zoom platform and featured several speakers presenting their insights into information technology (IT). The webinars provided valuable insights into various aspects of IT. These aspects included creating a positive first impression, cloud security, quantum computing, project management, AI in defence, IT project complexity, and best practices. The speakers shared their

Computer Science

experiences and expertise, answered questions from the audience, and provided tips and advice for success in the field. The webinars were informative and engaging and showcased the importance of continuous learning and professional development in the ever-changing field of IT.

Parikalan: Computer Science Society organised- Merchandise Designing Competition which was held from 7th February to 8th February in online mode in order to acknowledge the advent of Graphics Designing Club.

Society also organised various workshops and seminars-

- An online workshop on 'Advanced CSS' was conducted by the coordinator
 of Netweavers(Web Development Club), Nishant Kumar Singh on February
 13, 2023 with a participation of more than 50 students across the college,
 consisting of various topics such as Flex Box, Animation and Keyframes
 and Website Responsiveness, receiving the demand of another workshop in
 the same.
- Future of (Your) Learning-A peek into I.I.T. Madras BS Data Science
- Seminar was conducted on 'Future of Tech' by Anshul Yadav, a 4th year B.Tech Student from IIIT Delhi, a proud co-founder of two startups, namely, MEMBORO and Atom DAO and another upcoming startup Atom DAI on February 10, 2023 in Old Seminar Hall of the college premises.

Political Science

SAMVAAD, The Departmental Society of Political Science organised various activities in the academic session of 2022-2023. On 27th September 2022, SAMVAAD successfully organised a guest speaker session which was graced by Prof. Sanjay Kumar on the topic "Recent electoral trends and changing voting behaviour in Indian Politics".

On 30th September 2022 an online lecture was delivered by Dr. Rinku Lamba, Associate Professor, National Law School of India University, Bengaluru for the occasion of Gandhi Jayanti. Students visited the Parliament of India on November 10, 2022. On 16th November 2022 Samvaad (Society of Department of Political Science) organised its "Orientation Program" to officially welcome and induct the Freshers who joined the Political Science (Hons.) course in the 1st year. The department also organised a 2-hour intense speaker session on 29 November 2022, on eve of Constitution Day. On this occasion Prof.Anupama Roy The Centre for Political Studies (CPS), Jawaharlal Nehru University(JNU) delivered a lecture on Topic "Constitutional moments in Indian Democracy".

On 24 th and 25th January 2023 Samvaad organised its hallmark event "Know your Republic" (KYR) on the occasion of Republic Day. Under the two-day celebrations, the department organised an Inter-college Debate competition, a Policy Analysis competition, an Open Mic competition, and a Treasure Hunt competition. The KYR celebrations were graced by Sudhanshu Ranjan a senior journalist of Doordarshan

English Eclectica -The English Literary Society of PGDAV College organised the following events in the academic session of 2022-23.On 19th January 2023, Eclectica organised its annual self-written poetry recitation competition, where we welcomed all the poets and writers to express themselves. A total of 13 participants participated. Association: Post Pen-chant Eclectica hosted the first-ever Alumni talk series, Ilumni. The WhatsApp Alumni group was launched and our first two speakers, Mr. Amit Bharadwaj and Mr Gaurav Chauhan graced the event, as they shared their experiences in and post-college. Eclectica organised its annual literary festival under which, various events and competitions took place and other colleges in the DU circuit were invited as well Also, Eclectica had the golden opportunity to invite Mr. Saksham Garg author or Samsara (2022, Penguin eBury Press) to take a workshop on Creative Writing and building a writing process. Post Inkwell Insights, Mr Bijit Sinha, a former Cambridge University Press Editor conducted a session on how you can get yourself published and what the steps to be undertaken. On Tuesday, June 27th 2023 conducted by Prof. Nivedita Majumdar of John Jay College, New York. The topic for the speech was Silencing the Subaltern: Gender and Resistance in Postcolonia	_		
events in the academic session of 2022-23.On 19th January 2023, Eclectica organised its annual self-written poetry recitation competition, where we welcomed all the poets and writers to express themselves. A total of 13 participants participated. Association: Post Pen-chant Eclectica hosted the first-ever Alumni talk series, Ilumni. The WhatsApp Alumni group was launched and our first two speakers, Mr. Amit Bharadwaj and Mr Gaurav Chauhan graced the event, as they shared their experiences in and post-college. Eclectica organised its annual literary festival under which, various events and competitions took place and other colleges in the DU circuit were invited as well Also, Eclectica had the golden opportunity to invite Mr. Saksham Garg author o Samsara (2022, Penguin eBury Press) to take a workshop on Creative Writing and building a writing process. Post Inkwell Insights, Mr Bijit Sinha, a former Cambridge University Press Editor conducted a session on how you can get yourself published and what the steps to be undertaken. On Tuesday, June 27th 2023 conducted by Prof. Nivedita Majumdar of John Jay College, New York. The topic for the speech was Silencing the Subaltern: Gender and Resistance in Postcolonia Theory. Prof. Majumdar covered various points from the talks and the history of			who presented a highly insightful seminar on the Independence of the Judiciary and The Collegium System. Educational Trip of Department for the students to Dalhousie; Khajjiar was held from 06th April to 09th April 2023.
		English	Eclectica organised its annual literary festival under which, various events and competitions took place and other colleges in the DU circuit were invited as well. Also, Eclectica had the golden opportunity to invite Mr. Saksham Garg author of Samsara (2022, Penguin eBury Press) to take a workshop on Creative Writing and building a writing process. Post Inkwell Insights, Mr Bijit Sinha, a former Cambridge University Press Editor conducted a session on how you can get yourself published and what the steps to be undertaken. On Tuesday, June 27th 2023, conducted by Prof. Nivedita Majumdar of John Jay College, New York. The topic for the speech was Silencing the Subaltern: Gender and Resistance in Postcolonial Theory. Prof. Majumdar covered various points from the talks and the history of

Activities conducted by Satark, The Consumer Club of PGDAV

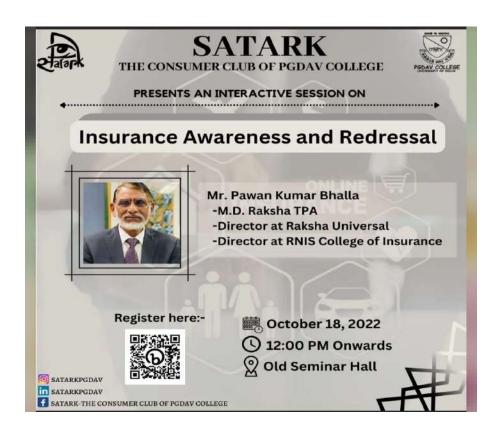
1. 1st Knowledge Sharing Session

Satark, The Consumer Club of PGDAV College conducted its first **Knowledge Sharing Session** (KSS) on 30th September 2022 for students. Society's President, Shivani Arora and Vice President, Ritvik Bhayana acknowledged the topic of Cybercrime and Grievance Handling, with some recent examples and how we can report on these crimes.



2. SEMINAR ON INSURANCE AWARENESS AND REDRESSAL

Satark organised an offline seminar on the topic- Insurance Awareness and Redressal 18th October 2022, in the old Seminar hall. In this seminar, Mr.Pawan Kumar Bhalla, Managing Director at Raksha TPA, an icon in the insurance sector, educated our students with insightful information. The session had more than 110 participants and faculty members.



3. E-WASTE DRIVE

Every year SATARK-The Consumer Club organises an E-Waste Collection Drive which motivates not only the students but also the faculty members to collect the unmanageable amount of electronic waste (E-waste). This year Satark started this drive on 12th October 2022. Almost 20 kg of e-waste was collected from the staff and the students.

4. 2nd Knowledge-sharing session - Consumer Awareness and Redressal

SATARK - organised its second offline knowledge-sharing session on the topic of - The Consumer Protection Act and Redressal on 17th January. The speakers Satvik and Khushi made the audience aware of 'How consumers must be aware of their rights and the three-tier procedure to seek redressals'



5. Poster Making Competition on 'Say No to Cosmetics' in collaboration with Consumer India

Satark, organised an Inter-college Online Poster-making competition from 6th January 2023 to 20th January 2023 in Collaboration with 'Consumer India' on the topic SAY NO TO COSMETICS in which about 100 outstanding entries were received.

6. Second E- WASTE Drive

Satark started its e-waste collection drive on 10th February 2023. Around 25 kg of e-waste was collected from the staff and the students.



7. 3rd Knowledge-sharing session - Impact of Budget 2023 on Consumer

SATARK organised its 3rd offline knowledge-sharing session on the topic Budget 2023-Impact on Consumers on 21st February 2023. The speakers Divyanshi and Akshita made the audience aware of Changes that the 2023 budget made and how the consumers will get affected by it.

8. INTRA COLLEGE 'COVER PAGE DESIGNING COMPETITION

Satark in collaboration with Consumers Forum organised an Intra-College Cover Page Designing Competition, on the topic EMPOWERING CONSUMERS THROUGH CLEAN ENERGY TRANSITIONS from 11th February to 21st February 23. We received a great response of about more than 30 entries and Khushi Sardana won the Competition.

9. 4 th knowledge sharing session - Quality and Standardization

Satark organised its 4th knowledge sharing session on the topic 'Quality and Standardisation' on 24th March 2023 where speakers Ridhi and Sharad shed light on topics like advantages and importance of quality standards, significance of standardisation, the BIS Act 2016 and applicable redressal mechanism.

10. CONSUMO FIESTA 23- THE CONSUMER FEST OF SATARK PGDAV

For the first time in the history of Satark, we organised a Consumer fest in our college on 10th April 2023 in collaboration with Consumers India and Consumer Forum where we conducted four big inter college competitions Ad-Mad, Battle of Words, Lights!Camera!Caption and Best out of E-Waste. We had the opportunity to invite Mr Sunil Prakash, President of Consumer Forum, Dr. Jayashree Gupta, President of Consumer Forum, Dr Amita Gupta, Convenor Youth activities Consumers India to judge and grace the occasion.



Activities conducted by Department of Economics

1. Research Paper Writing Competition









2. Speaker session on: Contours and Dynamics of India's G20 Presidency



Respected Principal Ma'am Prof. Krishna Sharma felicitating Dr. Sanjaya Baru





Dr. Sanjaya Baru speaking on the relevance of India's G20 presidency

Speaker session by Dr. Sanjaya Baru





Ardent audience during the speaker session

3. Paper Presentation Competition on the topic: Vasudhaiva Kutumbakam and the Contours of India's G20 Presidency





Paper presentation by Madhavi Sawhney, student from SGGSCC, University of Delhi

Judges during the Paper Presentation Competition

4. Conventional Debate Competition





Participant in conventional debate competition

Judges in conventional debate competition



5. Intellectually Engaging research undertaken by students

Steps towards a sustainable future: Green budget 2023-24

Anjali

Eiksha

Dhir Luthra

Muskan Chauhan

P.G.D.A.V College (M), Department of Economics
University of Delhi

Abstract

Economic activities have developed and been carried out in this advanced era which is associated with the negative impacts on our environment and climatic changes. Such impacts have led the governments, nations and organizations operating globally to come forward and focus on 'Green Growth'. But how can government pause these negative impacts on the environment and promote 'Green Growth'? India has been developing, starting from the mid-1980s' but at the cost of its environmental degradation like any other country in the world. This research paper inspects the steps being taken by India towards green growth by analyzing the budget for 2023-24.

The research paper will get insights into how the budget for 2023-24 aspires to the conservation of natural resources and biodiversity of the nation. It will go through various national initiatives and schemes and the budget allocated to the individual scheme. All the data collected is from government sites, surveys and other relevant sources. A research paper on green growth in the budget would demonstrate how investments in renewable energy, energy efficiency, and waste management can lead to economic hepofits.

Keywords: Green Growth; Indian Government; Green Hydrogen Mission; Amrit dharohar; Greenhouse eas.

1.) INTRODUCTION

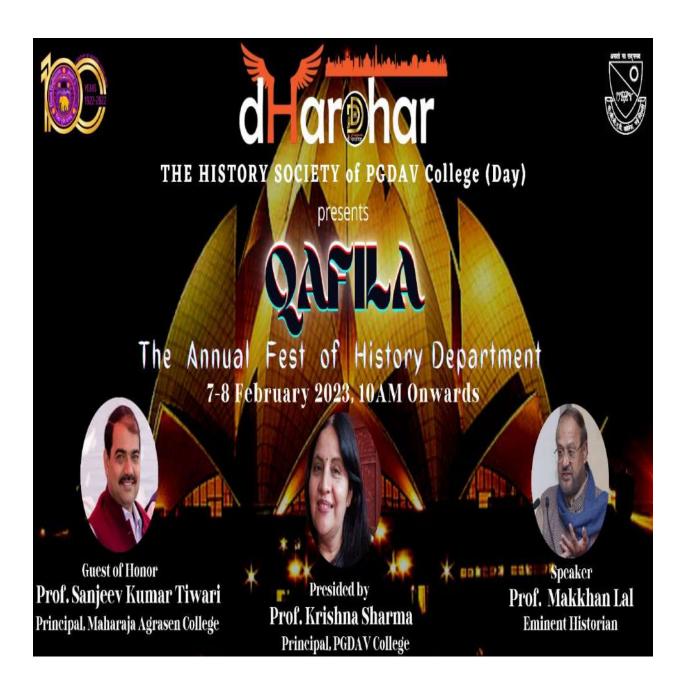
The world is facing the problem of a growing population at the rate of 1.1 % per year or 83 million approx. per year (World Population Prospects 2017, UN). India's population is growing at the rate of 0.81% in the year 2023 becoming the most populated country in the world overtaking China's population. India owns only 2.4% of the total land available while supporting the population of 17.85% of the total population in the world which is 8 times its actual land size available making it difficult in near future to support such a large population. Hence, resulted in the significant destruction of existing limited natural resources to a large extent and put pressure on the environment. Preventive measures for the natural resources and environment from the existing risks is what, which gave rise to the term "green growth" when agreed upon by international organizations and nations unanimously.

What is Green Growth?

The concept of "green growth" is the idea of economic growth while mitigating the adverse impacts on the environment by encouraging sustainable practices and technologies. Green Growth refers to "fostering green growth and development while ensuring that natural assets continue to provide the resources and

Activities conducted by Department of History

Annual Fest of History Department



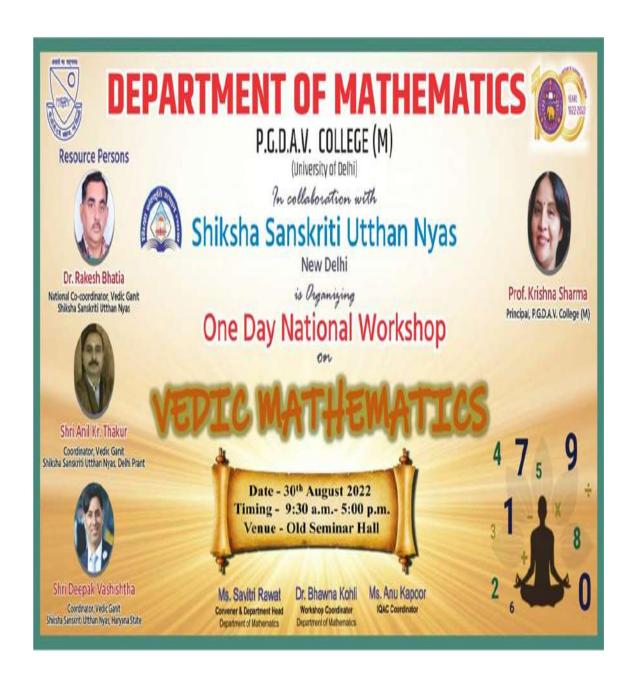
Faculty and audience during the Annual Fest of History Department





Activities conducted by Department of Mathematics

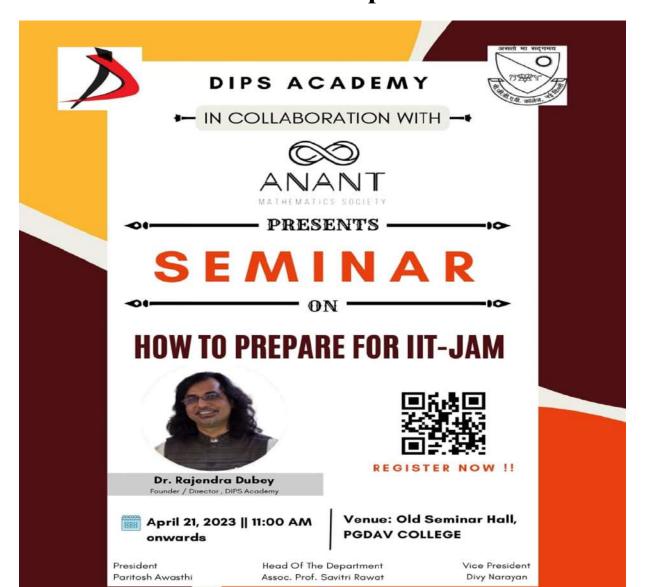
1. One Day National Workshop On Vedic Mathematics







2. Seminar on How to Prepare for IIT-JAM



3. Annual Inter-College mathematics fest, Spectrum2023





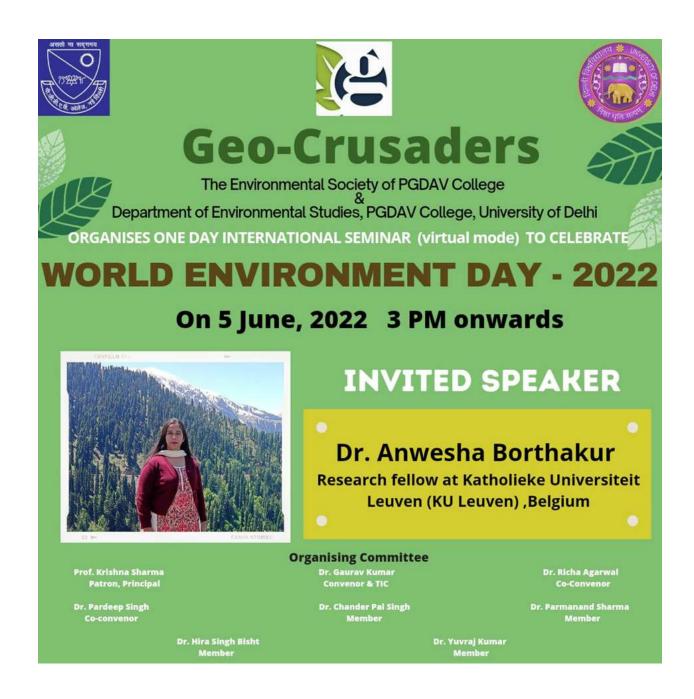


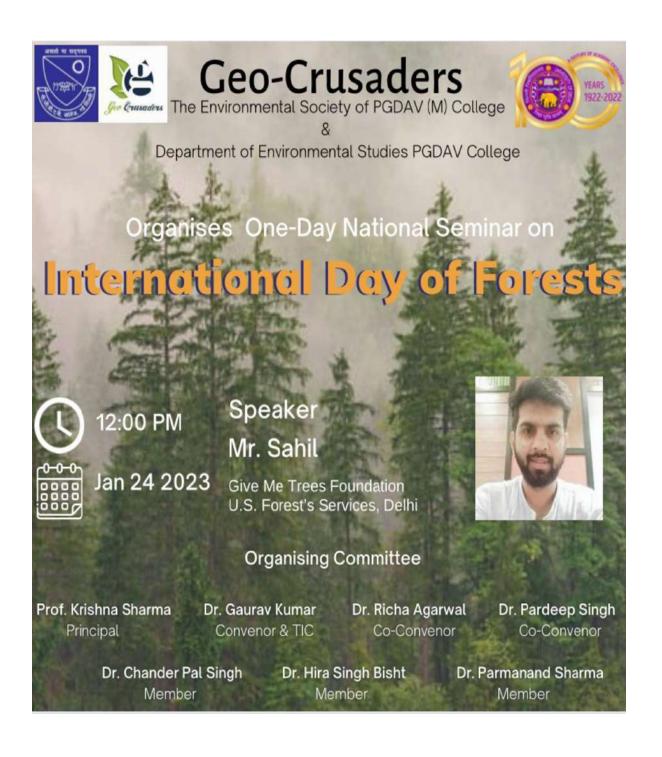


Activities conducted by Department of Statistics



Activities conducted by **Department of Environmental Science**











Activities conducted by Department of Sanskrit



आजादीक

अमृत महोत्सव

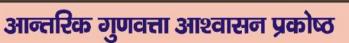
पी.जी.डी.ए.वी महाविद्यालय

असतो मा सदगमय



दिल्ली विश्वविद्यालय

नेहरू नगर, दिल्ली-110065



(IQAC), संस्कृत विभाग एवं संस्कृत भारती, दिल्ली के संयुक्त तत्त्वावधान में आयोजित



दश (10) दिवसीय प्रमाणपत्रीय पाठ्यक्रम

दिनांक : 01-11 फरवरी 2023 | समय : 01:00 PM - 03:00 PM

स्थान : कक्ष संख्या १२७, नवीन भवन

संयोजक संस्कृत विभाग पी.जी.डी.ए.वी. महाविद्यालय सान्निध्य निदेशक आई.क्यू.ए.सी पी.जी.डी.ए.बी. महाविद्यालय

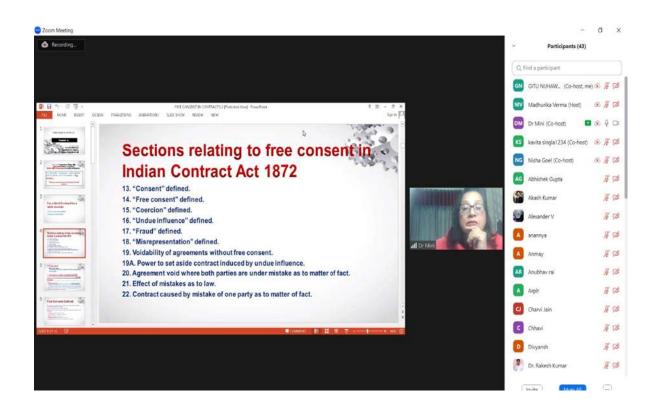
संरक्षक प्रो. कृष्णा शर्मा प्राचार्या पी.जी.डी.ए.बी. महाविद्यालय

Activities conducted by Department of Commerce













Experiential learning: Quizzes

<u>Quiz</u>

Indian Contract Act came in force on *	
1st September, 1872	Wh
2nd September, 1872	C
1st September, 1873	C
1st September, 1874	C
	C
Indian Contract Act is currently applicable *	Pr
Whole of India	С
-	C
Whole of India except Jammu & Kashmir	C
Whole of world	C
India and SAARC countries	
	Go
A contract is defined by Indian Contract Act * Section-2(h) as	C
38 TO	C
An agreement enforceable by law	C
An agreement not enforcable by law	C
An accepted proposal	
Every promise or set of promise forming consideration of each other	

Whi	ch statement is correct *
0	Proposal + acceptance = Promise
0	Promise + Consideration = Agreement
0	Agreement + Enforcability = Contract
0	All of the above
Pro	posal may be *
0	Express
0	Implied
0	Specific and Generic
0	Any of the above
God	ods displayed in a shop with price is *
0	Offer
0	Acceptance
	Counter offer
0	

Activities conducted by **Department of Computer Science**











Activities of PGDAV College that featured in print media



भारतीय संस्कृति में वैदिक गणित की महत्व पर कार्यशाला

नई दिल्ली। पी जी डी ए वी महाविद्यालय एवं शिक्षा संस्कृति उत्थान न्यास,दिल्ली प्रांत के तत्वावधान में आयोजित एक दिवसीय कार्यशाला का आयोजन किया गया।

कार्यक्रम का शुभारंभ द्वीप प्रज्वलन के साथ हुआ। स्वागत वक्तव्य गणित विभाग को वरिष्ठ प्राध्यापक सावित्री रावत ने देते हुए वैदिक गणित के विशेषज्ञ वक्ताओं का परिचय कराने के साथ ही वैदिक गणित के महत्व को बताया। कार्यशाला का 120 से अधिक छात्रों एवं शिक्षकों ने लाभ उठाया। कार्यशाला का उद्घाटन महाविद्यालय की प्राचार्य प्रो? कृष्णा शर्मा मैम ने करते हुए कार्यक्रम की सफलता के लिए सबको शुभकामनाएँ देते हुए कहा कि यह कार्यक्रम एक दिन का नहीं इसपर सर्टिफ़िकेट कोर्स होना चाहिए।आज के मुख्य विशेषज्ञ राकेश भाटिया जी ने वैदिक गणित से सम्बंधित विभिन्न सूत्रों और आयामों को रुचिपूर्ण ढंग से प्रतिभागियों के समक्ष रखा उन्होंने कहा कि वैदिक गणित के 13 सूत्र



और 16 उपसूत्र से गणना करना कई गुना बढ़ जाता है। वर्तमान शिक्षा पद्धति में इसका अभाव है पर राष्ट्रीय शिक्षा नीति, 2020 में छठी से दसवीं तक की कक्षाओं में इसका समावेश किया गया है जिससे छात्रों को भविष्य में बहुत लाभ होगा। इन्होंने ऐलजेबरा के बारे में छात्रों को महत्वपूर्ण जानकारी दी। कुछ आसान प्रश्न

छात्रों के मध्य समझाते हुए छात्रों की जिज्ञासा को शांत किया आगे इसी ऋम में वैदिक गणित के विशेषज्ञ अनिल ठाकुर ने अपने वक्तव्य में बोधायन संख्या का महत्व को बताते हुए कहा कि वैदिक गणित से थोड़े समय में ही विभिन्न सूत्रों की मदद से बड़े-बड़े सवालो को भी हल किया जा सकता है जो कि बहुत ही रुचिकर है। आगे उन्होंने

कहा कि हमारी विरासत को संजोने में हमारे शास्त्रों और वेदों का अहम् योगदान रहा है। आगे उन्होंने कहा कि वैदिक गणित हमें व्यावहारिक ज्ञान देता है हर समस्या का कोई न कोई हल है। दूसरे सत्र के वक्ता दीपक वशिष्ठ ने वैदिक गणित को आज के छात्रों के लिए महत्वपूर्ण बताते हुए अर्थेमैटिक के बारे में महत्वपूर्ण जानकारी छात्रों के बीच साझा किया।कार्यशाला के समापन सत्र में छात्रों को भी अपने अनुभव साँझा करने का मौका दिया गया। सभी ने कार्यशाला को बहुत ही रोचक और प्रतियोगी परीक्षाओं के अत्यंत बताया।औपचारिक धन्यवाद ज्ञापन गणित विभाग वरिष्ठ प्राध्यापिका एवं आई. क्यू. ए . सी की संयोजक डॉ? अनु कपूर ने किया।कार्यशाला में महाविद्यालय के कोषाध्यक्ष श्री सुरेंद्र कुमार जी, डॉ अवनिजेश अवस्थी जी, डॉ रामवीर जी एवं महाविद्यालय के कई वरिष्ठ प्राध्यापक उपस्थित रहें कार्यक्रम का संचालन गणित विभाग की प्राध्यापक डॉ भावना जी ने किया।