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6.3.3 Percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)/Management Development Programs (MDP during the last five years

(Professional Development Programmes, Orientation/Induction Programmes, Refresher Course, Short Term Course)

6.3.3.1: Total number of teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/Management Development Programs during the last five years

(Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course)year-wise during the last five years

ANNUAL REPORT 2019-2020

DAV UNIVERSITY

JALANDHAR

'Dayanand Anglo Vedic'
a movement with the mission - engaged
in the field of man - making education
constantly evolving and creating a society
founded on vedic wisdom





ओ३म्

ओ३म् भूर्भुवः स्वः तत्सवितुर्वरेण्यं भर्गो देवस्य धीमहि ।

धियो यो नः प्रचोदयात् ॥

(सुक्त ३६.३)

God is Self subsistent,

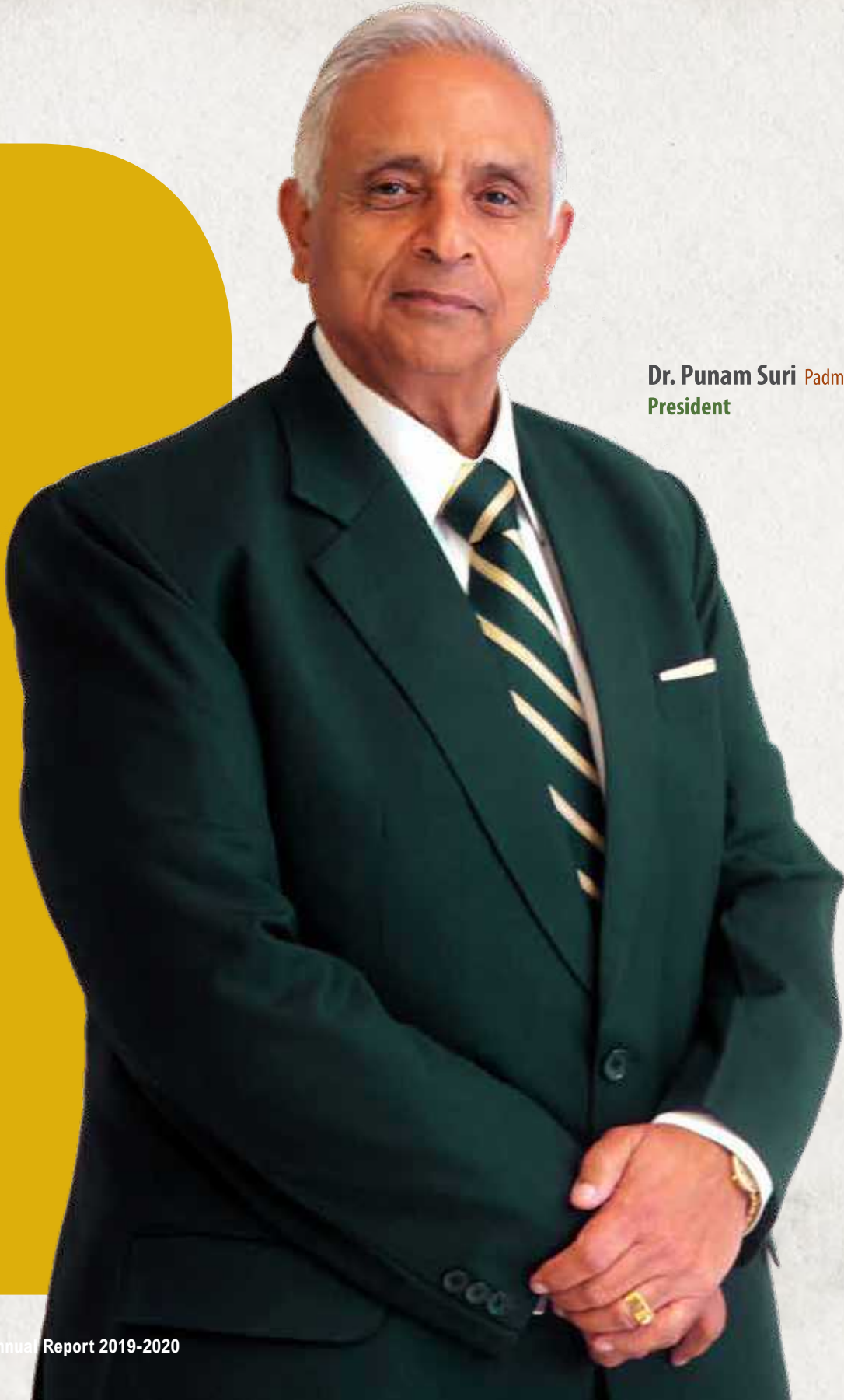
All Knowledge and All bliss.

**We meditate on the All pure effulgence
of the maker of the universe.**

May He guide our intellect on the right path.



ANNUAL
REPORT 2019-2020



Dr. Punam Suri Padma Shri Awardee
President



Dear Friends,

In the early 19th century, **William Wordsworth, a poet laureate in the West**, lamented - the world is too much with us – observing man absorbed in materialism and distancing from nature. In the 20th century, **Rabinder Nath Tagore in the East**, a Nobel Laureate poet through several poetic and artistic compositions, showed his intense love of nature and emphasized the need to protect nature as well as mother earth. But human societies in mad race for advancement and man in rat race for material growth of the self have turned deaf ear to the soulful cries of the poets over centuries, and of now have landed in hot waters so much so that the very existence of life on earth is endangered. Shrinking glaciers, rising sea levels, intense heat waves, frequent sudden hurricanes don't augur well at all.

Indiscreet human activities are causing imbalances and playing havoc with nature what is called Climate Change. In the yore of antiquity, the depiction of glory and grandeur of dawn and sunrise and silence and sweetness of nature in Vedas bears testimony to the fact that the Vedic seers adored nature and prayed to the Almighty for the protection of the elements - Agni, Vayu, Jal, Akaash and Prithvi, and made intense prayers for maintaining their balance so that they have positive effect on life of all kinds. But man today is plundering and depleting nature and disturbing cosmic order in pursuit of greed and self-aggrandizement. Let us understand the difference between attitudes now and then by quoting from a Vedic hymn containing a prayer -

“Don't harm the environment, don't harm the water and flora, earth is my mother, I am her son, may the waters remain fresh... Tranquility be to the atmosphere, to the earth, to the waters, to the crops and vegetation.”

Where have gone such cravings now? Where have gone the eyes to see magic in the mountains or in the colourful plumage of the birds? We have lost ears to hear the babble and bubble of brooks or rhythm of waves on a seashore. If we break the laws of nature, punishment is imminent. A lot is lost yet everything is not yet lost.

Let us not deplete nature and disturb environment for a world of affluence and abundance of material goods. If all of us cannot find divinity in nature, let us at least respect the sanctity of nature for our own survival. Let us not forget nourishing our inner living self in our race to renovate and refurbish our living rooms. **Let us not bargain a world of tranquility to a world of opulence.**

Let our institutions be nurseries where the mindset is framed from rich texts of Vedic wisdom. Let us look forward to a world of serenity and solace !

God's blessings be with us all,

Yours sincerely,

Punam Suri

DAV

A Leader in Education, Empowerment and Enlightenment

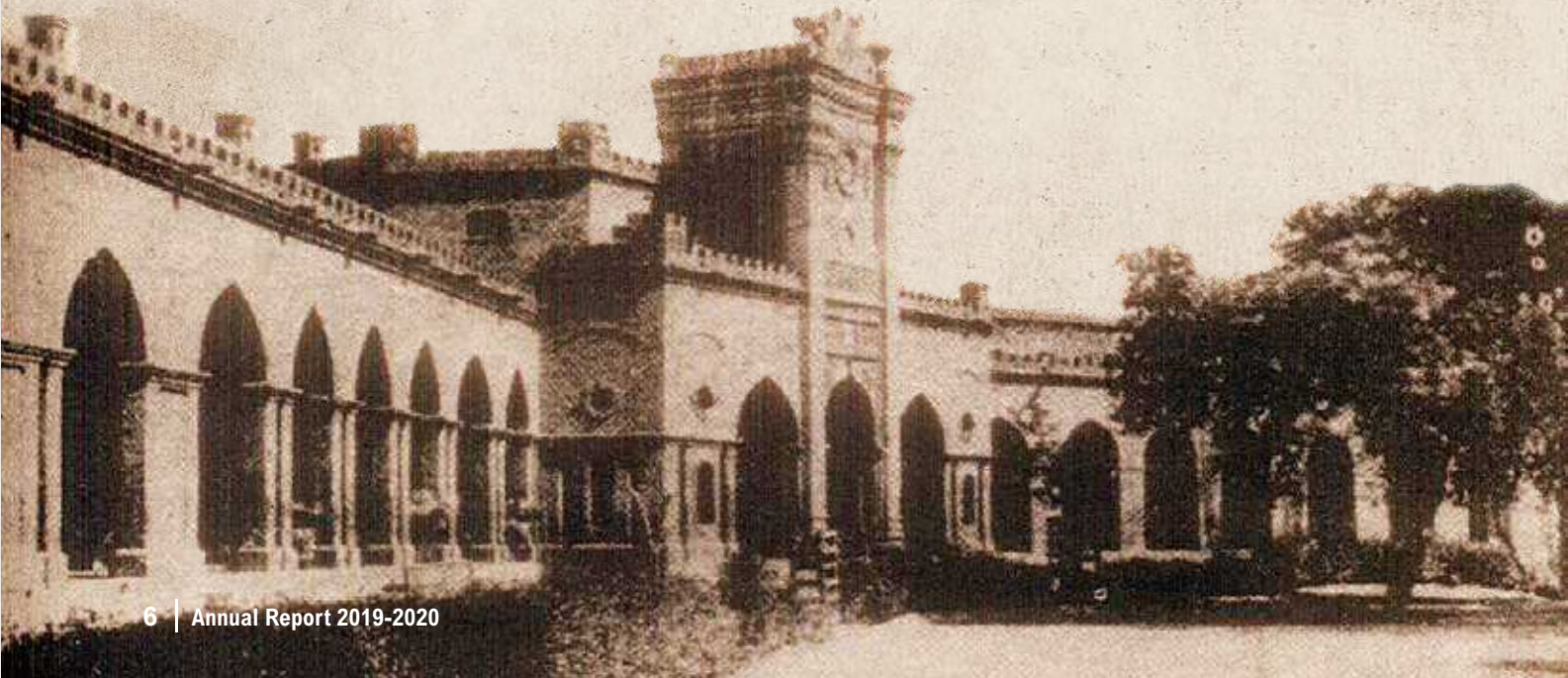
The Genesis

Maharishi Dayanand Saraswati, a philosopher, thinker and reformer made his advent on the Indian soil when this great country had become oblivious to the glory of its rich culture, tradition and unparalleled heritage. He stood up against social evils and superstitions prevalent at that time. With the uplifting call "**Back to Vedas**", the Maharishi rejuvenated and revitalized India intellectually and spiritually, thus bringing about spiritual and social renaissance in society.



The Foundation

Dayanand Anglo Vedic (DAV) College Trust and Management Society, a name that has become synonymous with pristine knowledge, social upliftment and nationalism, came in existence in 1886 about 3 years after the death of Maharishi Dayanand (1824-1883). It was registered under the Societies Registration Act of 1860 and the same year the first DAV institution was established at Lahore with young Hans Raj later known as **Mahatma Hans Raj**, as the honorary headmaster.



Swami ji's firm conviction was that education was a catalyst of social transformation, and the realization of this dynamic vision has ushered in an era of educational reform. Over the past many decades, hundreds of DAV institutions have emerged throughout the country for both boys and girls so that they can be taught in the art and science of life and in technical skills so as to broaden their mental horizons, unfold their innate abilities and cultivate virtue among them.



The dawning of Dayanand Anglo Vedic College Movement will be incomplete without reference to the contribution of Pt. Gurudatta Vidyarthi. His faith in God and Vedas became firmly rooted in his soul when he sat by the side of Swami Dayanand ji in his last hours. Gurudatta ji's tender heart was greatly touched when he saw the Gayatri Mantra on the lips of the Maharishi just before his departure from this earth.

When it was decided by Arya Samaj, Lahore to immortalize the work of Swami ji by raising educational institutions, Gurudatta Vidyarthi was amongst the first who responded to the call of subscription in aid of the DAV College. Often, he would be found in the company of the then energetic secretary of the Arya Samaj in drafting an appeal and circulating it in aid of DAV.

Mahatma Hansraj bestowed a unique feature to the DAV perspective by emphasizing upon the blend of scientific approach and Vedic ethos. He was a strong advocate of discarding superstitions and social evils rampant in the country by stressing upon equality among the young learners, irrespective of caste, creed and colour. He was also a pioneer in the field of women education and empowerment.

Mahatma Hansraj led the Arya Samaj and DAV movement to new heights. He had close contacts with eminent and popular freedom fighters like Lala Lajpat Rai, Bhai Parmanand and Shri Bhim Sain Sachar. As the DAV Movement caught the fancy of the Indian youth, many heroes and martyrs like Sardar Bhagat Singh were inspired to fight for the freedom of the motherland. Visionaries like **Justice Lal Chand, Lala Dwarka Dass, Lala Durga Dass, Principal Sain Das, Bakshi Ram Rattan, Dr. Mukund Lal Puri, Dr. Bakshi Sir Tek Chand and Justice Dr. Mehr Chand Mahajan** gave the much needed impetus to the cause of education. The movement gained further momentum under the leadership of **Dr. G.L. Dutta, Lala Suraj Bhan, Prof. Ved Vyasa, Shri Darbari Lal, Shri T.R. Tuli and Shri G.P. Chopra.**

At present, the DAV flagship is being navigated under the spirited leadership of **Dr. Sh. Punam Suri, Padma Shree Awardee**, who often looks like a monk with a mission spreading the benevolent Vedic philosophy, tirelessly explaining the principles of Arya Samaj for the welfare of mankind, particularly the youth. An illustrious grandson of legendary Mahatma Anand Swami, Shri Punam Suri ji with commitment to the ideology and principles of Arya Samaj and with a crusader like zeal in bringing about reforms is the harbinger of another era of rejuvenation and revitalization of Vedic philosophy. The organization is marching ahead taking long strides.



**Rai Bahadur
Justice Lal Chand**
1886-1895, 1896-1900
1902-03, 1910-12



Bhagat Sh. Ishwar Das
1895 - 1896 / 1900 - 1902
1903 - 1906



Lala Dwarka Dass
1907 - 1909



Mahatma Hans Raj
1912 - 1918 / 1931

The Stalwarts

Presidents of
DAV College Managing Committee



Rai Bahadur Durga Dass
1919 - 1923



Dr. Bakshi Sir Tek Chand
1924 - 1930



Principal Sain Das
1932



**Rai Bahadur
Mukand Lal Puri**
1933 - 1935



**Justice
Dr. Mehr Chand Mahajan**
1936 - 1939 / 1955 - 1964



Principal Diwan Chand
1940 - 1943



Lala Balraj
1944 / 1950 – 1953



Principal Mehr Chand
1945 – 1949



Master Nand Lal
1954



Dr. G.L.Dutta
1965 – 1971



Justice J.L.Kapoor
1972 – 1974



**Padam Bhushan
Suraj Bhan**
1975 – 1980



Prof. Ved Vyasa
1981 – 1991



Babu Darbari Lal
1995



Sh. T. R. Tuli
1996 – 1999



**Padam Bhushan
Shri G.P.Chopra**
1992 - 1995 / 1999 – 2011

Dr. Punam Suri

Padma Shri Awardee

W.E.F. February,
2012



Decisive and Motivational leadership provided during tough times of COVID-19

The world awakens to the perils of the Corona Virus 19 sometime in March. Nationwide stringent lock-down clamped in India on March 24, 2020 and sudden closure of all educational institutions happened. There comes an insightful, analytical, passionate message on the very next day from the Hon'ble President Sh. Punam Suri with prayers to the Creator, Lord of all for healing and peace on earth as well as reminding DAV academicians and administrators not to be oblivious of their duties towards the students and instantly suggests the available remedy 'Online Teaching' and 'Work from Home'. This is what is called farsighted and visionary leadership.

The DAV ship was very skillfully piloted through hitherto uncharted waters. His motivating words empowered all members of the fraternity. New challenges were accepted voluntarily and each one realized the hidden potential.

"A leader is one who knows the way, goes the way and shows the way." - John Maxwell

Dear Elders, brothers & sisters,

Corona Virus seems to be spreading at a fast pace, with more than 3,00,000 confirmed cases in the world. Practically every nation has gone into a Lock-down state. I think that this the first time that the entire human race, regardless of religion, language, colour, or nationality, have declared war against its common enemy - Corona Virus.

Since time im-memorial, a human being which is just a small organism, using the power of his brain, tried to control and rule over all other forms of life. And in his struggle for power, he played havoc with Nature. This epidemic has proven to us that when faced with the wrath of Nature, a micro-organism, like Corona Virus, is sufficient to paralyse, maim, and strangulate the entire human race. Let this be lesson to us, though a very expensive one, that all humanity must live with Nature and not at the expense of it. We, the disciples of Maharishi Dayanand ji, understand that we have to live as per the teachings of the Vedas, respecting all forms of life, and maintaining the balance of Nature. Let us pray:

"Oh Lord, the Creator & Protector,

Let the Celestial Shining region bestow peace upon us;

Let the mid-space (outer space) bestow peace;

Let there be peace on Earth; Let the waters be peaceful;

Let the medicines & medicinal plants be peace giving;

Let all Vegetation be peace giving;

Let the Sages & Intellectuals be peace loving;

Let all Divine Knowledge be peace giving;

Let there be peace in peacefulness;

Let peace & harmony be bestowed upon me and all of us."

DAV, always ready to face the National calamities, declared all its 920 Institutions closed in 23 states of the country, till 31st March 2020 in an endeavour to break the Corona Virus growth chain. But also realising the responsibility of the future of its students, a system of "On-line Teaching" programmes have been started. The DAV Head Office has already started "Work from Home" concept. It will be our endeavour to keep the functioning as trouble free as possible. All this is achieved, and so quickly, because of the zeal & the efforts of the Office Bearers, Directors, R.O.s & A.R.O.s, Principals, teachers and the entire staff of DAV.

I appeal to all to take all preventive measures, and to please cooperate with the dictates of the Government, stay indoors, stay healthy and stay gainfully employed. Don't be careless, be careful and yet remain care free. Pray and KEEP SMILING !

Yours, in prayer,

Dr. Punam Suri

President

DAV College Managing Committee, and Arya Pradeshik Pratinidhi Sabha

Managing Editor

Daily Milap, New Delhi

STAY AT HOME

STAY HEALTHY, PRAY AND KEEP SMILING!



DAV UNIVERSITY

DAV University Chancellor Dr Punam Suri Ji delivers an inspiring message on its – Foundation Day in a virtual celebration on 19th April 2020.



**Dr. Punam Suri, Padma Shri Awardee
Chancellor**

Addressing the faculty and students, Dr. Punam Suri ji observed the Foundation Day of any institution is a special occasion when it revisits its origin and accomplishments. While DAV University commemorates its Foundation Day on April 19, the values it propagates become more relevant in these challenging times. The outbreak of COVID – 19 has shaken the fast-growing world where people were frenziedly pursuing money and power. It has affected every aspect of our daily lives and made the world wake up to the values which DAV has always stood for. DAV has believed in the development of a third dimension which consists of well-being, wisdom, wonder, and giving. In these trying times, there is a greater need to inculcate and nurture these values. Commemorating the foundation day is achieving another milestone. It is a strong reminder to reflect on our values, adjust to the existing tough times and brace for the future. As always, DAV University has risen to the occasion and geared up to do its best to reach out to students, teachers and other stakeholders. It is the need of the hour to actively and practically engage in the continued expansion of happiness. Plan your targets in this lockdown and discipline yourself to follow them. Make adjustments when things change and turn to well-being practices. Exercise, spend good time with family. Everything has not been cancelled. Enjoy music, read, laugh and hope for the good-time to return. Let us resolve to lay the foundation of a strong and resilient character to withstand any hardship and flourish even in the face of turbulent times.



DAV University... A Fast Growing University

Infrastructure Recently Augmented

Dr. Punam Suri, Chancellor DAV University and President DAV CMC, New Delhi, accompanied by the first lady of the DAV family, Mrs. Mani Suri, visited the university and laid the foundation stone of Mahatma Anand Swami Hostel (Boys) Block, a Yagyashala and inaugurated the newly constructed Mahatma Hansraj Auditorium.



DAV University is on Development Spree

Knowledge Resource Centre expanded

The DAV University Library is on the path of continuous expansion since 2013. The University library is fully automated, air-conditioned, furnished with modular and comfortable furniture having sitting capacity of more than 400. All the major functions like Acquisition, Cataloguing, Circulation, Serials control are performed with the help of software. The Library subscribes more than 100 national/international journals, magazines and newspapers in print. Moving with the era of digitization and focusing modern user's requirement of e-content for learning, research work and teaching, the University Library provides access to digital-content and online resources. DAV University Library is equipped with 40 computer systems, with

broadband and Wi-Fi connections. A large number of e-resources were made accessible by subscribing different e-resources packages and databases like DELNET; EBSCO; JSTOR; WEL (World E-book Library); SAA(South Asian Archive); NISCAIR publications. Turnitin and Urkund (UGC recommended) tools are used for Plagiarism Checking.

The session 2019-20 further saw the addition of Reading hall, Internet lab, Archive area and the expansion of books stack area. Thus the centre has facilities of essential services for the faculty and students, even for physically disabled persons.

Expansion of Laboratory Infrastructure

Department of Agriculture has added the following infrastructure:

- Established Agro Meteorology lab, Net house, Poly house, New Farm
- Purchased Autoclave, Seed Germinator and Water Distillation Unit
- Established Agro Meteorology Laboratory



Sunshine Recorder



Pyranometer



Event Logger



Open Pan Evaporimeter



Stevenson Screen



Ordinary Rain Gauge



Net house and Polyhouse were constructed in Agri farm



The Psychology Laboratory has been upgraded with experimental research related to Neuro-bio feedback.

Research

Dynamism of the faculty is very-well reflected in their initiative for applying to various agencies for Research Grants for the projects undertaken and their enthusiasm in publishing research papers in reputed journals.

Research Projects

- **Dr. Yogesh Kumar** from the Dept. of Biotechnology received Rs. 34.96 Lacs by CSIR titled 'Unravelling host-pathogen interactions underlying disease development by velvet bean severe mosaic virus in medicinal plant *Mucuna pruriens* through transcriptome analysis.'
- **Dr. Rahul Kumar** from the Dept. of Agriculture Science and Technology received more than Rs. 30 lacs from CSIR-HRDG, Government of India titled 'Insight into salt stress tolerance mechanism of poor man's pulse Horsegram [*Macrotyloma uniflorum* (Lam.) Verdc.] using biochemical and molecular approaches.'
- The Dept. of Physics has been awarded National projects of Rs.72.36 lac by various government funding agencies such as SHRI-DST and CSIR including the projects under the category of DST WOS-A. **Dr. Samriti Khosla**, Associate Professor as principal investigator along with forty co-principal investigators working on the project entitled as "Indian Beliefs: Analysis in Context of Vedic and Modern Science" by SHRI-DST. **Dr. Rama Gupta**, Assistant Professor is working on the project "Exploring



rogue waves in the inhomogeneous waveguide array and their potential control" as principal investigator by CSIR – INDIA. **Ms. Pooja Thakur**, PhD candidate is conducting research on "Information entropy under nonlinear physical systems" by DST WOS-A as the principal investigator under the supervision of **Dr. Rama Gupta**. **Ms. Isha Arora**, PhD candidate is working on the project entitled as "Study of transition metal impurity in sol-gel processed ZnO-SnO₂ based ternary alloy films for transparent electronics and devices" by DST WOS-A as principal investigator under the supervision of **Dr. Praveen Kumar**.

- Besides these projects from outside agencies, the university provided seed money to 22 faculty members for 23 research projects amounting to 16 lakhs.

Research Fellowship

- **Mr. Anuj Sharma (Junior Research Fellow)** working under the supervision of Mr. Karan Paul (Biochemistry) was awarded DST-INSPIRE fellowship for pursuing doctoral studies at DAV University, Jalandhar.

Research Papers Published

The faculty of the university published around 90 research papers and book chapters in different national and international research journals of repute indexed in SCOPUS, ICI and Web of Science. Almost all the departments are involved in publishing research but Dept. of Physics, Chemistry, English, Commerce & Business Management, Agriculture and Journalism and Mass Communication contributed a good number of publications. To name only a few:

- **Ms. Parveen Guleria**, Dept. of Biotechnology along with other

- editor, edited a book 'Plant Small RNA: Biogenesis, Regulation and Application' published by Academic Press, Elsevier Publisher, USA. 2020.
- **Yogesh Kumar**, Dept. of Biotechnology along with other authors published a paper on 'AC4 protein of tomato leaf curl Palampur virus is an RNA silencing suppressor and a pathogenicity determinant' in a journal *Microbial Pathogenesis*, Elsevier. 2019.
- **Ashutosh Bhadoria** (Principal author), Dept. of Electrical Engineering published a research paper 'Optimal Generation Scheduling and Dispatch of Thermal Generating Units considering impact of wind penetration using hGWO-RES Algorithm' in *Applied Science* published in Springer.
- **Dr. Ashutosh Sharma** Dept. of Agriculture along with other authors published a book chapter 'Role of ROS in the regulation of abiotic stress in legumes', In *Abiotic Stress and Legumes: Tolerance and Management*. Elsevier Publishers.
- **Rashmi Sharma** Dept. of Microbiology along with other authors published a research paper titled 'Endophytic Fungi: Role in Phosphate Solubilisation in Advances in Endophytic Fungal Research' published by Springer.
- **Dr. Hiteshwari Sabrol** (Principal Author), Dept. of Computer Science and Applications published a conference paper titled 'Plant Leaf Disease Detection Using Adaptive Neuro-Fuzzy Classification' published by Springer.
- **Ms. Geeta Kashyap** (Principal Author), Dept. of Journalism and Mass Communication published a research paper 'Teaching Data Journalism: Insights for Indian journalism education' in *Asia Pacific Media Educator* published by Sage (SCOPUS indexed, UGC Care list Group- I).
- **Ms. Geeta Kashyap** (Principal Author), Dept. of Journalism and Mass Communication published a research paper "We need to find a revenue model": Data journalists' perceptions on the challenges of practicing data journalism in India published in *Observatorio (OBS*) Journal* published by OberCom (SCOPUS indexed, UGC Care list Group- I).
- **Dr. Nakul Kundra**, Dept. of English published a research paper "Representation of 'the Others' in Bankim Chandra Chatterji's Anandmath" in a journal listed in UGC-CARE list.
- **Dr. Sandeep Vij**, Dept. of CBME published a research paper "Does Market Orientation Mediate between Knowledge Management Orientation and Business Performance?" in *Journal of Information and Knowledge Management*, Vol. 18, No. 04, 2019. (Scopus Indexed)
- **Dr. Namrita Kalia**, Dept. of CBME published a research paper "Contextual and task performance: Do demographic and organizational variables matter?," *Rajagiri Management Journal*, Vol.13, No.2, 2019, pp.30-42. (Emerald Indexed).
- **Dr. Saloni Raheja**, Dept. of CBME published a research paper "Relationship between "Behavioral Biases and Investment Decisions: The Mediating Role of Risk Tolerance" in *DLSU Business & Economics Review*, 2019 (Scopus Indexed).
- **Dr. Saloni Raheja** Dept. of CBME published a research paper "How do Emotional Intelligence and Behavioral Biases of Investors determine their Investment Decisions?" *Rajagiri Management Journal* (Accepted for Publication)-Emerald Indexed
- **Inam Mohammed**, Dept. of Botany along with other authors published a research paper 'Solanum sisymbriifolium Lam. (Solanaceae): A new exotic spiny beauty for North-West Uttar Pradesh' in *PHYTOTAXONOMY*. Vol. 18, Pub. October, 2019.
- **Dr. Karan Paul**, Dept. of Biochemistry along with other authors published a research paper 'Biochemical studies on agglutinin from *Abrus Precatorius*' in *Plant Archives* (Accepted, in press).
- **Dr. Rekha Gaba** (Principal Author), Dept. of Chemistry published a research paper 'Molecular interactions of some non-essential amino acids in aqueous solutions of 1-methylimidazolium chloride at different temperatures' in *J. Mol. Liq.*, 279, 711-718, 2019.
- **Dr. Rekha Gaba**, Dept. of Chemistry along with other authors, published a research paper 'Thermodynamic properties of binary liquid mixtures containing aromatic alcohol and aliphatic amines at different temperatures' in *J. Mol. Liq.*, 285, 279-287, 2019.
- **Dr. Rekha Gaba**, Dept. of Chemistry along with other authors, published a research paper 'Thermodynamic properties and IR studies of binary mixtures of benzyl amine with alkyl esters at different temperatures' in *Chemical data Collections*, 24, 100278, 2019.
- **Dr. Ankush Gupta** Dept. of Chemistry published a research paper 'Aggregation-Induced Emission: A Tool for Sensitive Detection of Amines' in *Chemistry Select*, 2019, 4, 12848-12860.
- **Dr. Ahmad Husain**, Dept. of Chemistry along with other authors published a research paper 'A highly active copper catalyst for the hydrogenation of Carbon Dioxide to formate under ambient conditions' in *Dalton Transactions*, 2020 (Accepted).
- **Dr. Ahmad Husain**, Dept. of Chemistry along with other authors published a research paper 'White Light Emission from Single Dye Incorporated Metal Organic Framework' in *Optical Materials* 2020.
- **Dr. Ahmad Husain**, Dept. of Chemistry along with other authors published a research paper 'Solvothetical synthesis, structural characterization, DFT and magnetic studies of a dinuclear paddlewheel Cu(II)-metallamacrocyclé' in *Journal of Molecular Structure* 2020.
- **Dr. Ahmad Husain**, Dept. of Chemistry along with other authors published a research paper 'Selective recognition of Fe³⁺ and CrO₄²⁻ ions using Zn(II) metallacycle and Cd(II) coordination polymer and their heterogeneous catalytic application' in *CrystEngComm* 2019.
- **Dr. Ahmad Husain**, Dept. of Chemistry along with other authors published a research paper 'Spectral, Structural and Catalytic

- activity of infinite 3-D and 2-D Copper(II) Coordination Polymers for Substrate Size-Dependent Catalysis for CO₂ Conversion' in Dalton Transactions, 2019.
- **Dr. Sapna Sethi**, Dept. of Chemistry along with other authors published a research paper 'Study of a Cross-Linked Hydrogel of Karaya Gum and Starch as a Controlled Drug Delivery System' in Biomaterials Science, Polymer Edition, 2019.
- **Dr. Sapna Sethi** (Principal author), Dept. of Chemistry along with other authors published a research paper 'Fabrication and characterization of microwave assisted carboxymethyl cellulose-gelatin silver nanoparticles imbibed hydrogel: Its evaluation as dye degradation' in Reactive and Functional Polymers.
- **Dr. Sapna Sethi** (Principal Author), Dept. of Chemistry along with other authors published a research paper 'A hydrogel based on dialdehyde carboxymethyl cellulose-gelatin and its utilization as a bio adsorbent' in Chemical Sciences, 2020.
- **Dr. R. K. Sethi**, Dept. of Physics along with other author published a research paper "Effect of Rotation and Analysis of Elasto-Diffusive Body Waves in Semiconductor Materials" Think India Journal, Vol. 22(19), pg 3299-3308, 2019. UGC CARE Listed
- **Dr. Keshav Waliq** Dept. of Physics along with other author published a research paper 'Self-focusing of elliptical laser beam in cold quantum plasma' in Optik 186 (2019) 46-51. SCI
- **Dr. Keshav Waliq** Dept. of Physics along with other author published a research paper 'Stimulated Raman scattering of high-power beam in thermal quantum plasma' in Optik 195 (2019). SCI
- **Dr. Keshav Waliq** Dept. of Physics along with other author published a research paper 'Second harmonic generation of high-power laser beam in cold quantum plasma' in Optik (2020). SCI
- **Dr. Sandeep Kumar**, Dept. of Physics along with other author published a research paper 'Study of glass forming ability and structural rigidity of Zn modified (GeTe)_x(Sb₂Te₃)_{100-x} chalcogenide glassy alloys' in Phase Transitions 93(1) (2020). SCI.
- **Dr. Praveen Kumar**, Dept. of Physics along with other author published a research paper 'Effect of gamma irradiation on structure and photoconductivity of amorphous Sb₃₀Se₇₀ chalcogenide films' in J. Non-Cryst. Solids (2020). SCI
- **Dr. Praveen Kumar**, Dept. of Physics along with other author published a research paper 'Synthesis and characterization of chemically exfoliated graphene oxide', AIP Conf. Proc. 2142(1) (2019) SCOPUS.
- **Dr. Praveen Kumar**, Dept. of Physics along with other author published a research paper 'Role of binary solvent mixture on luminescence characteristics in highly miscible PVA/PVP polyblends' in Optics & Laser Technology (2019). SCI
- **Dr. Praveen Kumar**, Dept. of Physics along with other author published a research paper 'Role of shell type of core/shell nanoparticles in luminescence properties of PVK-CdS/X nanocomposite films' in Applied Physics (2019). SCI
- **Munish Aggarwal** along with other author published a research paper 'Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma' in Laser and Particle Beams 37(4) (2019). SCI
- **Dr. Daljit Kaur** along with other authors published a research paper 'SnSe/SnO₂ nanocomposites: novel material for photocatalytic degradation of industrial waste dyes' in Advanced Composite and Hybrid Materials 2 (4) (2019). SJR
- **Munish Aggarwal** along with other author published a research paper 'Electron-Acoustic Shock Waves in Cylindrical and Spherical Geometry with Non-Extensive Electrons' in Plasma Physics Report 45(11) (2019). SCI
- **Tapan Sharma and Praveen Kumar** along with other authors published a research paper 'Study of photo-catalytic degradation of MB dye a water pollutant from sonochemically synthesized CdSe:Zn nanoparticles' in AIP Conf. Proc. 2115 (2019). SCOPUS

Guest Lectures/Workshops organized by Departments

With a vision to enhance and broaden the knowledge area of the students, all departments endeavour to organise guest lectures, workshops and special lectures on regular basis. More than 50 guest lectures, workshops and special lectures were organized by different departments during 2019-20. To name only a few:

- **Dept. of Civil Engineering** organized 10-hours workshop on "Safe Structural Design and Architectural Green Building Construction" in collaboration with Tata Tisco (Tata Steel) on September 21, 2019 and October 10, 2019.
- **Dept. of Electrical Engineering** organized a workshop on "Industrial Motivation campaign for Youth" in collaboration with MSME Technology Centre, Jalandhar.
- **Dept. of Journalism and Mass Communication** organized expert lecture on "60 years of Doordarshan" and invited veteran journalist Mr. Jatinder Pannu on September 14, 2019.
- **Dept. of Mathematics** organized a Guest lecture on "Differential Equations and its Applications" delivered by Dr. Subash Chandra Martha Associate Professor Dept. of Mathematics, IIT Ropar on November 23, 2019.
- **Dept. of Botany and Environmental Sciences** organized an expert lecture on "Application of Geographical Technologies (Terrestrial LiDAR) in ecological research" on December 3, 2019.
- **Dept. of Computer Science and Applications** organized "One-day workshop on Machine Learning Using Python".
- **The Dept. of Psychology** team under guidance of Dr. Jasbir Rishi along with 2 faculty members and 8 students actively organized the Psychometric testing workshop and represented the university at the DAV United event held at New Delhi on 31st Jan -1 Feb, 2020.

- **Dept. of Zoology** organized a special lecture on “Cancer Awareness” on January 31, 2020.
- **Dept. of Psychology** organized National Conference and Workshop on ‘Psychological Disorders in Conflicting World, the role of Positive Psychology and Mental Health’ in collaboration with the Dept. of Education on February 27-28, 2020.
- **Dept. of Journalism and Mass Communication** organized a workshop on ‘Documentary Production’ on February 26, 2020 conducted by renowned filmmaker Mr. Anwar Jamal.
- **Dept. of Physics** organized a guest lecture on “Landmark discoveries in Physics that shaped World: Challenging career opportunities for Science Graduates in India” on March 5, 2020.
- **Dept. of Chemistry** organized expert lecture on “The Journal of organic chemistry” on March 06, 2020.

Conferences/Workshops/FDPs attended by the Faculty

Faculty of DAV University is motivated to attend conferences, workshops and Faculty Development Programs (FDPs) with a purpose to update themselves with recent developments in their respective fields. More than 60 workshops, FDPs, Refresher courses, MOOC courses and short-term courses were attended by the faculty members in the last session. To name a few:

At International Level

- **Dr. Chetan Vasudev**, Dept. of Electrical Engineering attended International Training Workshop on Desert-based Wind and Solar Energy Technology from July 1, 2019 to July 20, 2019 at **Inner Mongolia University of Technology, Hohhot, China.**
- **Dr. Gurmeet Singh**, Dept. of Physics presented a paper entitled “Novel delafossite based ferrites for treatment of cancer via nanohyperthermia”, in 4th Ultrafast Magnetism Conference (UMC2019) held on October 13-18, 2019 at **National STEM Centre, University of York, York, United Kingdom.**
- **Dr. Keshav Walia**, Dept. of Physics delivered a talk “Second harmonic generation of high-power laser beam in relativistic unmagnetized plasma: Quantum effects” in Winter College on Optics during 10th February 2020 to 21st February 2020 at **ICTP, Italy.**
- **Ankush Kumar** (PhD student) of Physics Dept. presented a paper entitled “Potassium ferrite nanoparticles for biomedical application”, in 4th Ultrafast Magnetism Conference (UMC2019) held on October 13-18, 2019 at **National STEM Centre, University of York, York, United Kingdom.**



At National & State Level

- **Dr Ravish Chatrath**, Dean (Agricultural Sciences) attended National Symposium on Plant Disease Management for Food Security under Climate Change Scenario & Annual Meeting of Indian Phytopathological Society (North Zone) at ICAR-IIWBR, Karnal and Chaired Technical Session III (Plant Disease Management) on January 9-10, 2020.
- **Dr. Rahul Kumar** attended four days’ workshop on “Secondary Agriculture and Bio-Processing” (CIAB-SAB-2019) conducted at CIAB (DBT, Gol), Mohali from October 13-16, 2019.
- **Ms. Shivali Pur** attended five days’ National workshop on “Innovative Techniques of Characterization Optimization and Data Analysis (ITCOD)” held from July 8, 2019- July 12, 2019.
- **Dr. Nakul Kundra**, Dept. of English attended a two-day workshop on “Cine-Politics and Dictatorship: Curating, Archiving, and Reading Filmic Texts of the Emergency” at Indian Institute of Technology, Ropar (IIT, Ropar), from 19th December to 20th December 2019.
- **Dr. Anita Abrol**, Dept. of English attended a one-week course on “Effective Research Proposal and Paper Writing” at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, from December 20-24, 2019.
- **Dr. Nakul Kundra** attended a short-term course on “Soft Skills and Academic Communication” at Dr. B.R. Ambedkar National Institute of Technology (NIT), Jalandhar, from March 5-9, 2020.
- **Dr. Raj Kumar** attended a workshop on “Multivariate Data Analysis” held at Guru Nanak Dev Engineering College Ludhiana from December 11-24, 2019.
- **Dr. Sarika Verma** Dept. of Mathematics attended an NCM Teacher’s Enrichment Workshop on “Computational Methods for solving Differential Equations” held at I.K. Gujral Punjab Technical University, Jalandhar during December 25-30, 2019.
- **Dr. Akshay Kumar**, Dept. of Chemistry completed the course of Principal of Organic Synthesis through **MOOCs.**
- **Dr. Puja Rattan** attended ICAR sponsored short course on Recent Advances in Production of Bio-fertilizers and Bio-pesticides at SKUAST – Jammu w.e.f. 13th - 22nd November, 2019.
- **Dr. Satinder Kumar**, Dept. of Economics attended seven days’ short-term course on advanced techniques in economics research, January 2020, Panjab University Chandigarh.
- **Dr. Gitika Nagrath** attended UGC Sponsored 41st General Orientation Programme, October 2019, at Punjabi University, Patiala.
- **Dr. Sanjeev Kumar Sharma** from Computer Science Applications (CSA) attended two-week (from December 9 to 20, 2019) FDP at SBS State Technical Campus Ferozpur on “Big Data Analysis Using Machine Learning Techniques”.

During the financial year 2019-20, 162 teachers from the University have been granted the financial support of more than 5000 (INR) each for attending conferences/workshops etc.

During the academic session 2019-20, University has facilitated the teachers to undergo online/ face-to-face Faculty Development Programmes (FDP)/Management Development Programs, Professional Development Programmes, Orientation/Induction Programmes, Refresher Course, Short Term Course etc. In this regard, duty leave has been provided to the faculty members for attending these courses.

- **Dr. Harpreet Walia** attended refresher Course (Environmental Sciences) at UGC- HRDC at Guru Nanak Dev University, Amritsar (Punjab) from December 10-23, 2019.
- **Dr. Vijayta Taneja** Dept. of Journalism and Mass Communication attended FDP on Innovations in Teaching, Learning and Research organized by Doaba College, Jalandhar from December 24 to 30, 2019.
- **Er. Inderjit Singh** Dept. of Electronics and Communication Technology attended FDP on “Emerging Nanoelectronics based

Devices, Circuits and Systems” at IIT Roorkee, Roorkee sponsored by AICTE-QIP from July 15-19, 2019.

- **Ms. Vidya Pandey**, Dept. of Chemical Engineering attended the training orientation course for NSS Programme officer from February 21 to 27, 2020 at IDC, Chandigarh.
- **Dr. Ahmad Husain**, Dept. of Chemistry completed Annual Refresher Programme in Teaching (ARPIT) – 2020 through SWAYAM.

DAV University marks its presence at Innovation and Technology Summit organized by the Government of Punjab (Nov. 5, 2019)



Faculty members Dr. Anju Pathania, Dr. R. K. Seth, Dr. Rajesh Khanna, Dr. Puja Rattan, Dr. Pushpinder, Dr. Karan Paul, Dr. Jasbir Rishi, Dr. Rahul Kumar, Dr. Ashutosh Sharma and Sh. Naveen Bilandi participated in **Punjab Innovation & Technology Summit 2019** held on November 5, 2019 at Chandigarh.

The Government of Punjab has undertaken the mission ‘Innovative Punjab’ to promote Punjab as a global destination for innovations and quality research and has set up a council named “Punjab Research & Innovation (PRI)” to accomplish this mission with the objective to develop a network of administrative departments, universities, research institutions and other government & non-government organizations to carry out effective and collaborative work for the prosperity of the state.

The Government of Punjab in collaboration with **Punjab Chamber of Commerce & Industry** successfully organized ‘Punjab Innovation & Technology Summit 2019’ in the same year on 5th November 2019. The objective of the summit was to give a common platform to academic and research institutions, industries and departments; besides, it would give an opportunity to young innovators to show their talents, express their creative ideas and meet a number of representatives from different funding agencies. Under the guidance of Director Prof. J. Kackria and Dr. Desh Bandhu, officiating Vice-Chancellor a team of 32 faculty members and students from the DAV University participated in the summit. **The research accomplishments of the university were promoted in the summit to strengthen the industry-academia link. A project on developing light weight brick by the Department of Civil Engineering was highly applauded by one and all. DAV University signed an MOU with DSTE on this occasion.**

During the summit, the university arranged a tie-up with Science & Technology Entrepreneurs’ Park (STEP-GNDEC), Ludhiana. As an outcome, a three-day entrepreneurship camp was organised by STEP in association with the University Industry linkage Cell on the DAV University campus for the students of science and technology. In this camp, 135 students participated with enthusiasm and gusto which will naturally show result in the days to come.

Faculty Members invited to deliver Lectures/ Expert Talks

Dr. Jasbir Rishi, Dean Student Welfare, Dr. Ravish Chatrath, Dean Agricultural Sciences, Dr. Inam Mohammed, Dept. of Botany, Dr. Sandeep Vij, Dept. of CBME, Dr. Girish Taneja, Dept. of CBME, Dr. Nakul Kundra, Dept. of English, Ms. Geeta Kashyap, Dept. of Journalism & Mass Communication, Ms. Shikha Thakur, Dept. of English, Dr. Rahul Kumar, Dept. of Agriculture, Dr. Vijayta Taneja, Dept. of Journalism and Mass Communication, Dr. Rajesh Khanna, Dept. of Mechanical Engineering, Mr. Hari K. Singh, Dept. of Journalism and Mass Communication were invited to deliver lectures in their respective disciplines by various organizations, institutions & departments like ICAR, IITW&BR, Karnal, All India Radio, Doordarshan Kendra, Punjab Agricultural University, Ludhiana and other private institutions.

MoUs/ Memberships/ Academic Collaborations with DAV University

- Memorandum of Understanding has been signed with **Harvard Business School** Publishing for accessing top class management contents and study material of Harvard by the faculty and students (1st May 2019 until April 30, 2020).
- Memorandum of Agreement has been signed with **Hohhot, The People's Republic of China** to exchange teaching-methodical materials, curricula for inviting qualified professionals to conduct seminars/workshops (On July 19, 2019 for a period of 5 years).
- The University-Industry linkage cell of DAV University has collaborated with student Chapter of "ASHRAE", an internationally renowned **American Society of Heating Refrigeration and Air Conditioning Engineers** for seeking advance Heating, ventilation, air conditioning and refrigeration (HVAC&R) systems design and construction (On September 19, 2019).
- Memorandum of Understanding has been signed with **Dept. of Science, Technology and Environment, Government of Punjab (DSTE-GoP)** Chandigarh for the purpose of partnerships with industries and other research institutes in Punjab (On October 16, 2019 for a period of five years).
- Memorandum of Understanding has been signed between Faculty of Agricultural Sciences and ICAR-**Indian Institute of Wheat and Barley Research, Karnal, Haryana** for postgraduate teaching and research (November 28, 2019 for a period of 5 years).
- Memorandum of Understanding has been signed with **Punjab Energy Development Agency for Research & Development** Projects on Energy Conservation & Energy Efficiency (under

"State Energy Efficiency Research & Outreach Program" of Bureau of Energy Efficiency, Ministry of Power, Government of India) (December 04, 2019).

- Memorandum of Understanding has been signed between Faculty of Agricultural Sciences and ICAR-Central Soil Salinity Research Institute, Karnal, Haryana for postgraduate teaching and research (February 04, 2020 for a period of 5 years)
- Memorandum of Understanding has been signed with MSME Technology Centre, Central Institute of Hand Tools, Jalandhar for practical training and other collaborations (February 07, 2020).

Placements at DAV University and Activities of the Corporate Resource Centre

The Corporate Resource Centre has successfully placed university students in the leading companies of the country and the world.

- More than 400 companies were contacted through visits, Phone calls, & emails. Invites were sent to them for placements.
- 200 Plus corporates gave opportunities to our students this year.
- Guest Lectures were conducted by the Top Management officials in the year 2019-2020, such as Perfetti, Bajaj Allianz etc.
- Workshops on Soft Skills were conducted for the Management Students.
- Summer Trainings, Internships and pre placement offers were arranged by the CRC department for the students of MBA programs in various MNC's. Companies like HDFC Bank, Perfetti paid stipend of Rs 5000/- to Rs 10,000/- to our students in their Summer Trainings.



The placement record of students passing out in the year 2019-2020

MBA: Placement percentage of the MBA students in the current academic year has been 95%. Highest placement offer has been of Rs.10,00,000 (ten lakh Rupees) by Think & Learn, Bangalore. Students got the opportunities in varied fields like Banking, Retail, Manufacturing, Research etc. Placements are still continuing and we are hopeful of achieving 100% placement of eligible students like last year. DAV students of 2019-20 batch, got placed in companies such as Think & Learn, HDFC Bank, Berger paints, High Beam Global, JK Tyres, Ceasefire, Kotak Mahindra Bank, Decathlon Sports, Tommy Hilfiger.

Engineering: The highest offered package is 6.00 LPA by Advance Solutions, Pune. Till now all the eligible and interested students have been placed with average package 4.39 LPA. This year all the students have got offers in their core domains. Not a single one has got non-core profile. Students have been offered opportunities in big brands like **TCS, Wipro, Mindtree, Mphasis, Advance Solutions, IDS Infotech, Appknit, Anglo Eastern, Thought Works, Okaya Power Ltd, Zapbuild Technologies** and many more.

Sciences: Students have been placed in companies like Chemicals & Pharmaceuticals Limited, Dr. Lal Path Labs, Jubilant Chemsys, IDS Infotech, Healthviser, Indswift Labs. Till now 75% placements have been done for all eligible & interested students.

Physical Education: There has been 100% placements for all eligible & interested Physical Education students.

Psychology: There has been 100% placement for all interested Psychology students.

THE UNIVERSITY REMAINED HUMMING WITH CULTURAL AND CO-CURRICULAR ACTIVITIES THROUGHOUT THE ACADEMIC YEAR

The Department of Students Welfare organized various events in collaboration with respective departments. Highlights of the activities are: KALA UTSAV, SPECTRUM, DIWALI MELA, LOHRI FESTIVAL and HOSTEL NIGHT, YOUTH FLAIR



NCC

Standing up for the cause of national service and lending a helping hand in social cause, has always been on the agenda of DAV University and thereupon NCC army & air force cadets play an active role to materialize this noble thought.

NCC headquarters, Jalandhar has allotted DAV University following vacancies:

- Two units of army wing (cadets 320) through 2 PB Army Wing Boys
- Air Wing 50 vacancy through 1 Air Wing Jalandhar

Combined Annual Training Camp (CATC) was organized at DAV University, Jalandhar under the leadership of Col. Karan Pathania commanding officer from 2 PB BN NCC Jalandhar from October 09 to 18, 2019 in which 500 Cadets from various parts of North Zone Participated.



DAV University in collaboration with National Cadet Corps (NCC) organised a seminar on drug abuse in the University. The highlight of the seminar was an interactive session with such youth who had successfully left their dependence of drugs. The keynote speaker at the seminar Brig Advitya Madaan said that youth had abundant energy which could be utilized in a constructive manner.

NSS

NSS department remained active throughout the year

- Among a horde of activities, the department also organized an Oath Taking Ceremony at launch of FIT India on 29th of August, 2019.
- Organized a two-day Cancer Awareness and Stem Cell Donation cum Cancer Hatao Sankalp Sabha.
- **Organised a Blood Donation Camp in which 150 students donated blood.**
- Organised a 'Signatory Campaign' to motivate students to celebrate Green Diwali on October 21, 2019.
- Organised a lecture on Woman Health and Hygiene.



SPORTS

DAV University provides ample opportunities to budding sports enthusiasts to hone up their skills and shine on National & International fora/ platform.

- Celebrated National Sports Day by conducting Cross-country race in which 400 students participated.
- Yoga team won Gold Medal in Yoga State Championship.
- Yoga Team won various medals in National Yoga Championship.
- The department organized Punjab State Judo Championship and celebrated Republic Day.



Departmental Activities

All the disciplines of the university agricultural, engineering, humanities, sciences, mass communication organized various activities at the department level.



Department of Journalism and Mass Communication, DAV University organized a three-day film festival. During the festival, a Film Appreciation Workshop and Short Film Competition was organized. **Noted film personalities Anwar Jamal, Tripurari Sharan, Yashpal Sharma, National Award Winner Filmmaker from Punjab Mr. Gurvinder Singh, Ravi Chauhan, Ravinder Kaul, Sahil Dev** were part of the event.

Social Outreach Programs

Progressive farmers of J&K region visited the Agriculture Department of the university for interactions with the faculty.



Rahul Arya, Aditya Rana, Gautam Kumar and Nitish Kumar of the Department of Education, DAV University, Jalandhar bagged First position in National Level Hawan Yagna Competition held on 11th February, 2020 at Sohan Lal D.A.V College of Education, Ambala.



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