

First & Only Autonomous Women College of Punjab

Introduction to KMV

The Heritage Institution





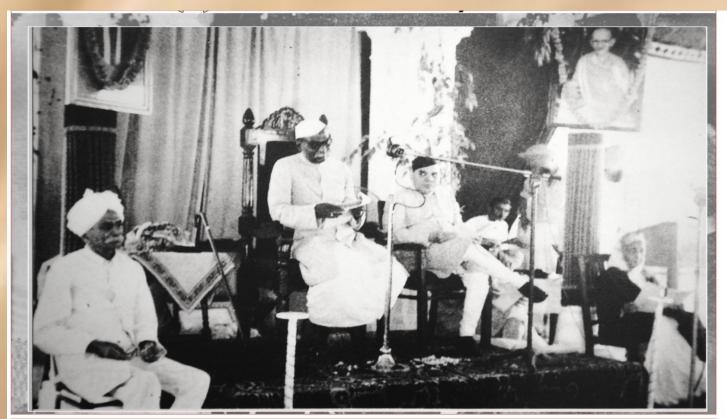


A Legacy of 140 Years

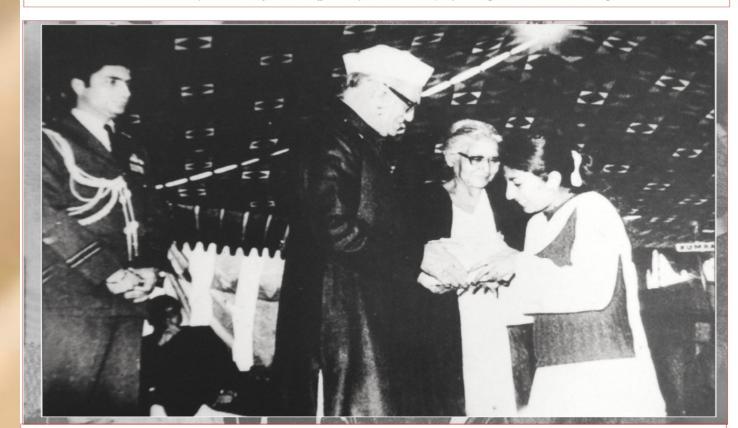


The Founder Father, Lala Dev Raj ji, the visionary leader & crusader established Bal Shakha Vidyalaya in 1886

Etched in Stone



Dr. Rajendra Prasad (First President of Independent India) with Rai Bahadur Badri Das (Former President, College Managing Committee) and Acharya Km. Lajjawati (Former Principal) during his visit to the College



Sh. Fakhruddin Ali Ahmed (President of India) felicitating a student during the Annual Prize Distribution of the College



Sarvapalli Dr. Radhakrishanan (President of India) laying the foundation stone of college building. Seen with him are Principal Acharya Lajjawati, Rai Bahadur Badri Das Ji and Sardara Singh (Construction Supervisor)



Dr. A.P.J. Abdul Kalam (President of India) interacting with the students of Kanya Maha Vidyalaya

Etched in Stone



Pt. Jawahar Lal Nehru (1st Prime Minister of Independent India) in the College campus with the Principal Acharya Lajjawati ji



Sh. Morarji Desai (Prime Minister of India) being introduced to the members of the staff by Principal Acharya Lajjawati ji



Mrs. Indira Gandhi (Prime Minister of India) being greeted by the teaching staff of the College



Mrs. Indira Gandhi (Prime Minister of India) being greeted by the teaching staff of the College



Sh. Atal Bihari Vajpayee (Prime Minister of India) during the traditional Welcome celebration 'Saraswati Puja' with Sh. Chander Mohan, President, KMV Managing Committee, Sh. Alok Sondhi , Secretary, KMV Managing Committee (left), Sh. Narendra Sood and Principal Dr. Kanta Ratna (Right)

A Participant in Freedom Struggle

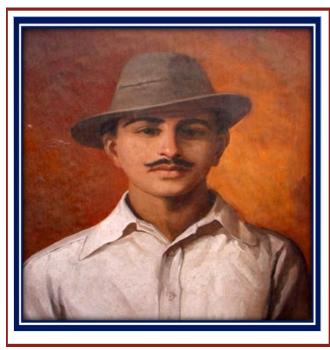
Declaration of Poorna Swaraj A Historic Moment for KMV Students





KMV was the leading light & torch bearer during the Indian struggle for independence





Perceptions of International & National Dignitaries about KMV



KMV embodies the kind of holistic education that some of us write about and aspire to, but never quite manage to achieve

-- Roger Nunn American University of Sharjah UAE



Words cannot describe my feelings of joy and accomplishment each time I visit KMV Jalandhar. With each visit, I gain more respect for your work and community. I treat this campus as my second home- thank you for welcoming me into your family with open arms, heart and mind.

---Prof. John Battaglino
Boston University, USA



This is the most impressive campus that combines the best practices of academia and human development. You not only meet the best international standards of education but add value for all to learn from the inspirational leadership.-

> --Dr. Maria Zlaveta Dept. of English, Boston University USA



It is a culture of care and inclusiveness that is being developed in KMV amid high academic standards. I am positive these students will become the best examples of cultured, enlightened global citizens.

-- Prof. Edward Downes
Dept. of Communications
Boston University, USA



Kanya Maha Vidyalaya is acting like a Light House for many other institutions and society, at large. It was an honour and pleasure to attend the Convocation function at this old and solid institution. I am sure you are ensuring the bright future of your students. My compliments to you all for all the efforts made. I am positive that your alumni will create history.

--Gen. V.K. Singh Union Minister of State, New Delhi



This is a unique space---with a totally dynamic leader & visionary; we take back a great deal of precious learnings & incredible awakenings.

--Dr. Meenakshi Gopinath Former Principal, LSSR New Delhi, Director, WISCOMP

S. Bhagat Singh Sthal at KMV



KMV- the Iconic Seat of Women Empowerment

VISION

'To be the flag bearer of Women Empowerment through Higher Education that combines emerging global trends with value-based nurturing of enlightened young women'.

MISSION

- To make every student globally employable through holistic education and development of right skills
- To emerge as a world class centre of Academic Excellence and Research
- To focus on Personality Development of each student through development of positive attitude, leadership qualities and self-awareness
- * To produce young women who, along with being job-skilled, are adept to address the larger issues of life and become effective in building a strong and modern India
- To actively respond to the momentous issues of our society and socio-political environment of the world
- **To reach out to the less-privileged and deserving sections of our society and lend a helping hand to them**
- **To inculcate national spirit and respect for our culture among our students and society at large**

KMV Heritage in Women Development



Personalities Nurtured







Areas of Research at KIMV

Glass Science Glasses for Solar Technology Glass nanocomposites

Linear and Non-linear optical properties of glasses

Rare earth doped luminescent glasses

Irradiation effects on glasses

Terahertz properties and Structure Correlations

List of Equipments available



PL
(Photo-Luminescence
Spectrofluorometer)



DSC
(Differential scanning calorimeter)



FTIR Spectrophotometer



Muffle furnaces-2



Gamma Beta Spectrometer



UV-VIS Spectrophotometer



LCR



Lapping-Polishing Machine



Automatic Bottom Loading Furnace

Research Workplace









30 Labs for Pure Sciences





Projects funded by Government

Ongoing Research Projects

Sr. No.	Name of the Principal Investigator	Name of funding agency	Government/ Non Government	Title of Project	Year of award	Duration and Amount sanctioned	Status of project (Completed/In progress)
1	Dr. Gopi Sharma (PG Department of Physics)	Science & Engineering Research Board (SERB)	Government	Non linear optical properties & terahertz studies of Germanium oxide based glass nanocompo sites for optical applications	2022	26,07,264/- Three years	Ongoing
2	Dr Neetu Verma (PG Department of Physics)	Board of Research in Nuclear Science (BRNS)	Government	Preparation and characterization of environment tal safe radiation shielding window glasses	2023	25,47,100/- Three year	Ongoing
3	Dr. Sandeep Kaur (PG Department of Physics)	DST Kiran Wise PDF	Government	Development and characterization of environment safe Cd free quantum dots in glass matrix for solar panels	2024	32,36,400/- Three year	Ongoing

Research Projects Completed

	Project Name	Name of Principal	Agency	Amount	Year
		Investigator			
	Rare earth doped tellurite and borate glass nanocomposites for photonic applications	Dr. Neetu Chopra	Department of Science and Technology, New Delhi	Rs. 32,54,020/-	2016
	Optical and non-linear optical properties of nano patterned novel glasses	Dr. Gopi Sharma	Science & Engineering Research Board, New Delhi	Rs. 36,46,388/-	2014
	Nano structured molecular sensor based upon doped/undoped ZnO films prepared by different techniques.		University Grant Commission, New Delhi	Rs. 10,00,000/-	2014
	Gamma irradiation effect on alkali borate glasses for shielding and reactor applications: structural, optical and physical analysis	Dr. Neetu Chopra	University Grants Commission, New Delhi	Rs. 1, 90, 000/-	2012
	Nanocrystalline phase in oxyfluoride glasses for scintillator applications		Department of Atomic Energy, New Delhi	Rs. 18, 24, 100/-	2012
ı	Rare earth doped glass nanocrystal composites: optical & physical characterization	Dr. Gopi Sharma	University Grant Commission, New Delhi	Rs. 10, 90, 000/-	2009
	Characterization of doped and undoped metal oxide films	Dr. Sonik Bhatia	University Grant Commission, New Delhi	Rs. 1,00,000/-	2008



Physics Scholars under different projects Funded by Government of India (4)



Dr. Sandeep Kaur WISE-PDF 2024-27



Ms. Harmanpreet Kaur Project Assistant, DST-SERB 2022-25



Ms. Gagandeep Kaur Project-Assistant CURIE

2023-25



Ms. Anchal Pathania
Project-Assistant
BRNS
2023-26

Research Projects-Completed

Publications: 70+



Dr. Neetu Verma under Dr. Gopi Sharma



Dr. Nancy Mahendru under Dr. Gopi Sharma



Dr. Ruchika Bagga under Dr. Gopi Sharma



Dr. Shivani Singla under Dr. Gopi Sharma



Dr. Sandeep Kaur under Dr. Neetu Verma



Financial support to students

Funds for professional development

Maintenance support

4 Hiring

Financial Support to Students Required

- **Selection of Pure Sciences as career need to be encouraged**
- **Large number of students from under-privilege section of society**
 - Psycho-Social Pressures: Students are unable to continue studies
- ***** KMV is a Non-Profit institution creating facilities for Research & Development and hiring of faculty needs financial endowments.

Funds for professional development

- * To organize various training programs at industry or institution level
- * Registration fees for attending Conferences, Seminars, workshops

Maintenance Support

- There is no support to maintain Instruments and Infrastructure
- * Maintenance cost is very high

Possible Solutions

- * Attract brilliant minds to Science
- **Provide financial support to a large number of students to alleviate economic stress**
- Implement industry-oriented work opportunities for students and Paid-Internship in Industries
- * Focus on preventing dropouts, especially among girls
- * Research requires financial support: both for academic expenses & sustenances
- Hiring of well-qualified Faculty & Operators

Prof. Arun Varshneya & Mrs. Darshana Varshneya Visit to KMV



Expected financial support from Industry

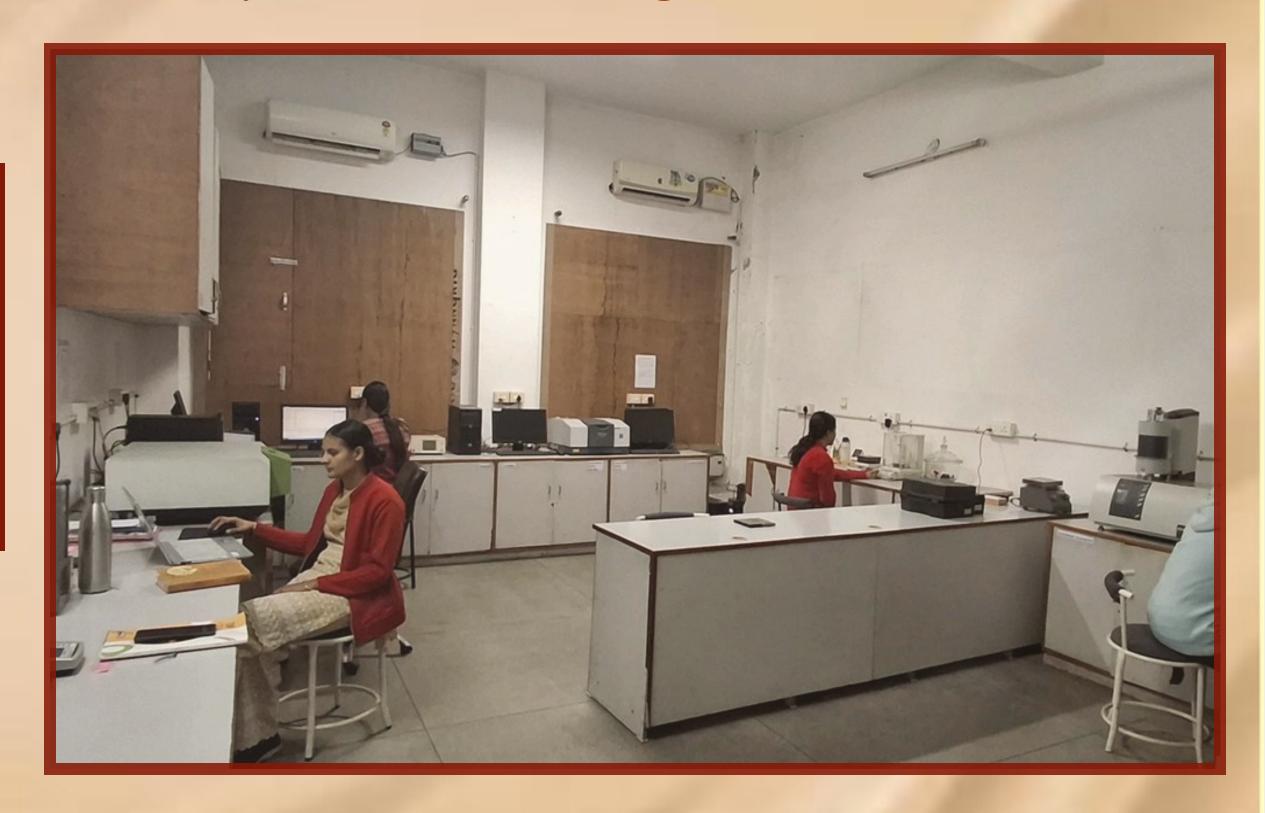
under

CSR

It will significantly promote Women in Science and Glass Research at KMV (Corporate Social Responsibility Number : CSR00045757)

For Unlocking New Pathways to Women Progress in Science

Seeking
Industry
(AIGMF) Alliances!



Gratitude for your Vision in Nation Building



Presented by:

Prof. (Dr.) Atima Sharma Dwivedi Principal Kanya Maha Vidyalaya (Autonomous) Jalandhar



Kanya Maha Vidyalaya (Autonomous), Jalandhar www.kmvjalandhar.ac.in