



Chemistry Association
DYAL SINGH COLLEGE
KARNAL

Activity Report
Session: 2020-2021



Our Motto

Gather Ye The Wisdom of The East & The West

Our Vision

Excellence is a journey, not an end...

Our Mission ...

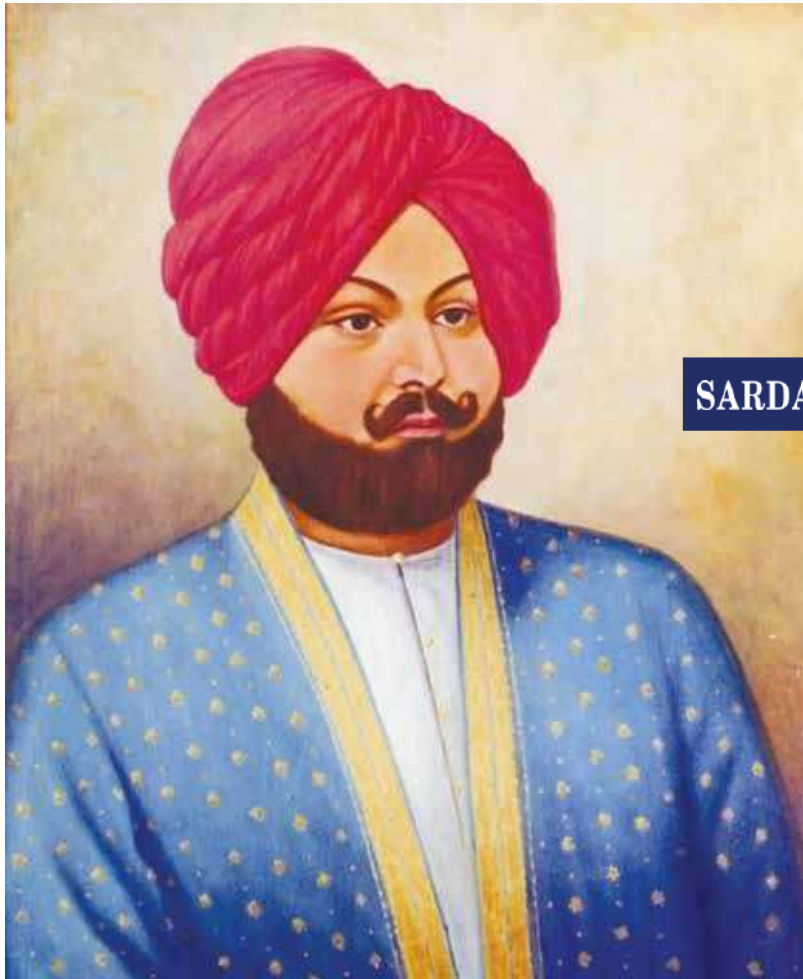
- To create quality human resource by developing the innate talents of our students.
- To provide conducive environment for holistic development of personality and improve the overall academic performance.
- To inculcate the spirit of Secularism, Nationalism, Communal Harmony & Rationalism.
- To inculcate discipline as a value system, and motivate youth to render service to the society at large.

OUR GENESIS ...

Our genesis lies in the last Will and Testament of our illustrious founder Sardar Dyal Singh Majithia, a great patriot and one of the pioneers of the Indian Renaissance. In accordance with his Will, Dyal Singh College was established on May 3, 1910 at Lahore, with avowed aim that the college "shall in all respects be a thoroughly efficient non-denominational college.. teaching up to the highest standards... and looking after the mental well-being of the pupils on its rolls"

Late Dewan Anand Kumar, a great visionary, the Founder Member of the University Grants Commission of India and the Founder Vice Chancellor of Punjab University, Chandigarh, worked tirelessly to re-establish Dyal Singh College at Karnal on September 16, 1949. Ever since, the college has been guided by a galaxy of extremely learned and experienced members of Trust who have taken keen interest in its overall growth and development. Today, the college is recognised as a premier co-educational institution of higher learning duly re-accredited with Grade 'A' by NAAC (September 2017). The college holds strength of more than 3100 students from both rural and urban areas. It offers diverse programmes and courses in Humanities, Science, Commerce, and Computer Science with Post Graduate courses in English, Hindi, Political Science, Commerce, Chemistry and 5 Year integrated M.Sc. in Forensic Science, with Honours Programmes in the Subjects of English, Economics, Political Science and B.Com. We also run employment generating Add-on courses in the subjects of Bio-informatics, Computational Physics and Web Designing. The college takes pride in organising various co-curricular activities through NCC (Army & Air Wings), NSS (Three Units), Sports, Youth Red Cross, Red Ribbon Club, Youth Welfare and Cultural Affairs, Women Development Centre, Institution's Innovation Council and Subject Associations for the holistic development of the students. The Placement Cell helps outgoing students to explore and achieve job-internships, research, and entrepreneurship skills.

The college has honed the skills of many young men & women, who have excelled in diverse fields such as Judiciary, Armed Forces, Para Military, Civil Services, Medicines, Sports, Politics, Business Management, Education Sector, and Social Service and more. To name a few, Late Dr. Kalpana Chawla – Astronaut (NASA), Sh. Ankur Gupta – IAS, Ms. Ruby Adhikari – IAS, Sh. Navdeep Virk - IPS, Justice R.K. Chauhan – Addl. Session Judge, Delhi, Former Justice Virender Singh, Major General Mohabbat Singh Virk (Retd.), Sh. Harvinder Kalyan MLA, Sh. H.S. Chatha – Former Finance Minister, Haryana and Sh. Navdeep Saini– Cricketer, Dr. Dinesh Kumar, Geophysicist, KUK, and the list goes on.



THE FOUNDER

SARDAR DYAL SINGH MAJITHIA

(1848-1898)

*The great philanthropist,
social reformer and one
among the Pioneers of
Indian Renaissance*

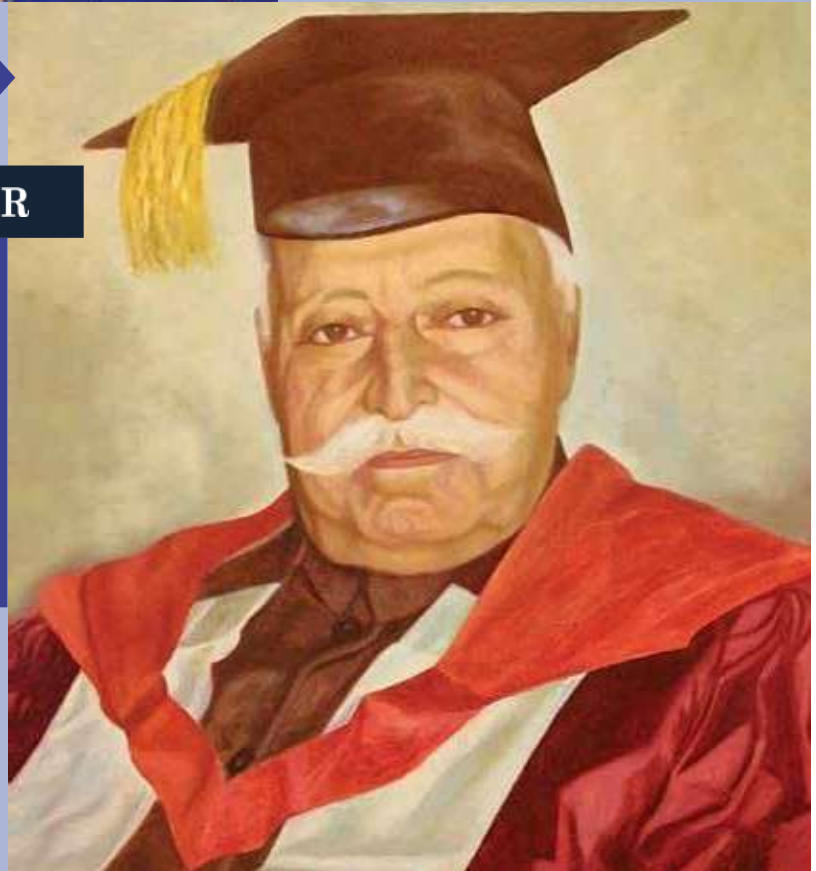


DEWAN ANAND KUMAR

(1894-1981)

The Light that Guided us

*The visionary who
re-established
Dyal Singh College
at Karnal on Sept. 16, 1949*



President: Mr. Sandeep Kumar

Co-President: Dr. Suman

1) Chemistry Association, Dyal Singh College, Karnal organized an **“Online National Level Essay Writing Competition”** on Topic **“Covid 19 – Redefining the Quest For Better Use of Our Natural Resources”** in **December 2020**. A total of 61 participants across the country were participated in the competition. The following participants secured positions in the competition:

Prize	Name of Student	College Name	Class
1st Prize (700/-)	Akshita Singhal	M.L.N. College, Yamunanagar (Haryana)	BSc 5 th Sem.
2nd Prize (500/-)	Sanjay	Dyal Singh College, Karnal (Haryana)	BSc 5 th Sem.
3rd Prize (300/-)	Cheta Nath Chapagai	Kalimpong College (North Bengal University, Darjeeling)	BSc 5 th Sem.

2) Chemistry Association, Dyal Singh College, Karnal organized a **“National Level Online Quiz on Chemistry”** on **January 24, 2021**. A total of 252 participants from eight different states across the country were actively participated in the quiz within the stipulated time period. The following participants secured positions in the quiz:

Prize	Name of Student	College Name	Class
1st Prize (500/-)	Geetanjali Jain	Dyal Singh College, Karnal (Haryana)	B.Sc. 1 st Sem.
2nd Prize (300/-)	Amiti	G.M.N. College, Ambala Cantt. (Haryana)	B.Sc. 1 st Sem.
3rd Prize (200/-)	Tanya Thakur	Dyal Singh College, Karnal (Haryana)	B.Sc. 3 rd Sem.

3) The Chemistry Association of Dyal Singh College, Karnal organized an **invited talk** on **“Biomedical Applications of Nanoscale Materials”** on **February 08,2021**, where the resource person was **Dr. R. K. Sharma**, an eminent researcher from University of Delhi, Delhi. His lecture was devoted to applications of nanotechnology for the benefit of mankind which ranges from the treatment of cancer to developing antiviral and antimicrobial mask. His lecture outlines the major advancements in the field of nano technology which

motivated the students and staff to pursue their career in this exciting field. The meeting was attended by more than 250 participants.

4) Chemistry Association, Dyal Singh College, Karnal organized a **“National Level Online Poster Making Competition”** on **June 05, 2021**. A total of 162 participants from seven different states across the country were actively participated in the competition. The following participants secured positions in the competition:

Prize	Name of Student	College Name	Class
1st Prize (500/-)	Surbhi	CPJ College of Higher Studies and School of Law, Narela (Delhi)	B.A.LLB 8 th Sem.
2nd Prize (300/-)	Jeevan	Dyal Singh College, Karnal (Haryana)	M.Sc. 4 th Sem.
3rd Prize (200/-)	Mayank	Govt. PG College, Safidon (Haryana)	B.Sc. 4 th Sem.

5) Chemistry Association, Dyal Singh College, Karnal organized a **“National Level Online PowerPoint Presentation Competition”** in the **month of June, 2021**. A total of 41 participants across the country were actively participated in the competition. The following participants secured positions in the competition:

Prize	Name of Student	College Name	Class
1st Prize (500/-)	Suman Preet Kaur	M.G.C. Fatehgarh Sahib (Punjab)	B.Sc. Honours (Chemistry) 6 th Sem.
2nd Prize (300/-)	Avni	Dyal Singh College, Karnal (Haryana)	B.Sc. 6 th Sem.
3rd Prize (200/-)	Sharmishtha	Dyal Singh College, Karnal (Haryana)	B.Sc. 6 th Sem.

6) Chemistry Association, Dyal Singh College, Karnal organized a **“National Level Online Certificate Designing Competition”** in the **month of June, 2021**. A total of 73 participants from seven different states across the country were actively participated in the competition. The following participants secured positions in the competition:

Prize	Name of Student	College Name	Class
1st Prize (500/-)	Diksha	Dyal Singh College, Karnal (Haryana)	B.Sc. 6 th Sem.
2nd Prize (300/-)	Jaishwar Prajapat	Aishwarya College of Education, Jodhpur (Rajasthan)	B.Sc. 6 th Sem.
3rd Prize (200/-)	Akshita Dua	Dyal Singh College, Karnal (Haryana)	B.Sc. 6 th Sem.
3rd Prize (200/-)	Harnoor Singh	Dyal Singh College, Karnal (Haryana)	B.Sc. 4 th Sem.

7) Chemistry Department, Dyal Singh College, Karnal organised an **Invited Talk** on **“Medicinal Chemistry”** on **July 03, 2021** by **Dr. Neera Raghav**, Chairperson, Department of Chemistry, Kurukshetra University, Kurukshetra. Her lecture was about the natural medicines around us as well as in our body and how these medicines are remedies for many diseases like fever, nausea, neurological disorders and cancer etc. Even our mood and feelings also produces medicines in form of hormones which provides our body a balanced functioning. She also motivated the students pursue their career in natural chemistry and computational chemistry. The meeting was attended by more than 100 participants.

8) The Chemistry Association of Dyal Singh College, Karnal organized an **invited talk** on **“Reagents in Organic Synthesis”** on **July 08, 2021**, where the resource person was **Dr. Virender Singh**, an eminent researcher from Central University of Punjab, Bathinda. Dr Virender Singh delivered a talk on the use of various reagents in organic synthesis. He explained that these reagents are the integral part of organic chemistry and play vital role in achieving a desired transformation. In fact, reagents constitute the backbone of organic chemistry and they are used in synthesis of drug molecules, medicines, polymeric material and other useful material of daily life. He signified the use of various reagents with various examples. That is why this topic is also essential part of National Eligibility Test for pursuing further research in the field of Chemical Science. The meeting was attended by more than 100 participants.

9) Mr. Vinod Kumar of M.Sc. 3rd Sem. participated in **National Level Short Story Writing Competition** organized by Manohar Memorial PG College, Fatehabad in September 2020 and securing **Third position**.

10) Ms. Yashika of B.Sc. 5th Sem. participated in **Slogan Writing** in May 2020 organized by D.A.V. (P.G) College, Karnal and secured **Second position** and also participated in **Poster Making Competition** in May 2020 organized by Dr. B.R. Ambedkar Govt. College, Palwal and secured **Third position**.

11) Ms. Shagundeeep Kaur of B.Sc. 5th Sem. participated in **State Level Online Poetry Writing** organized by Mata Sundri Khalsa Girls College, Nissing, Karnal and secured **Third position**.

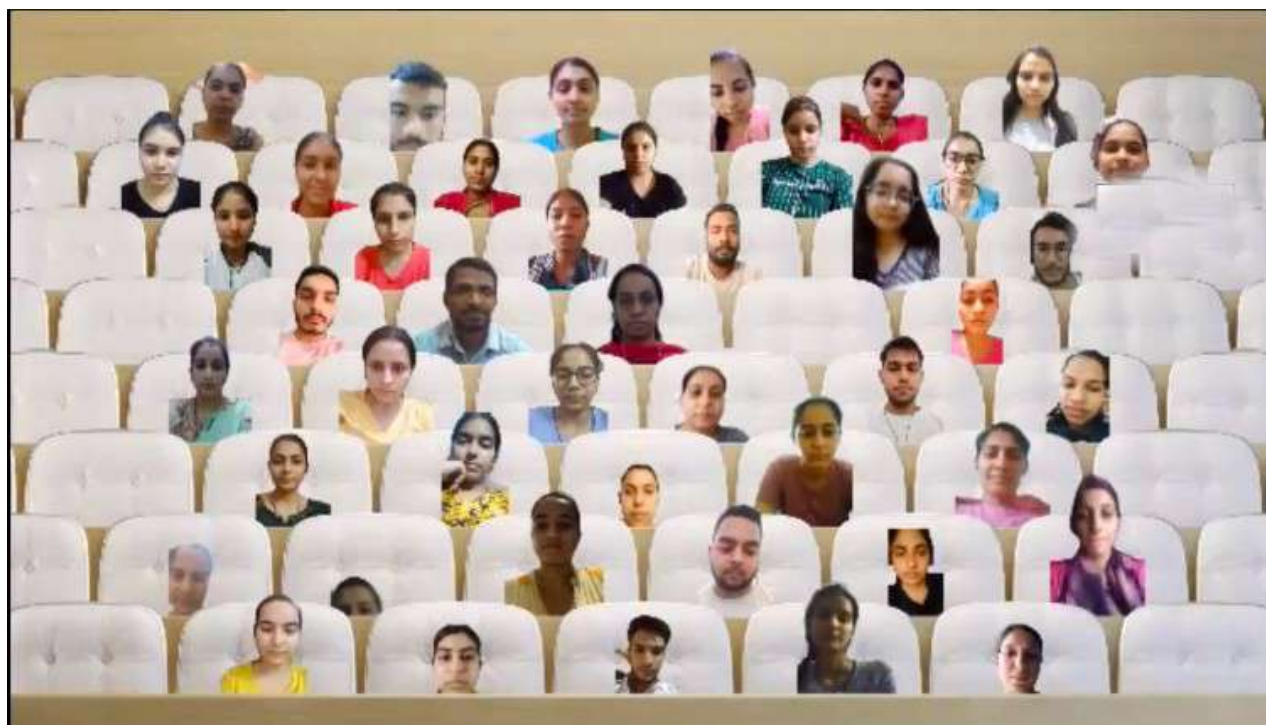
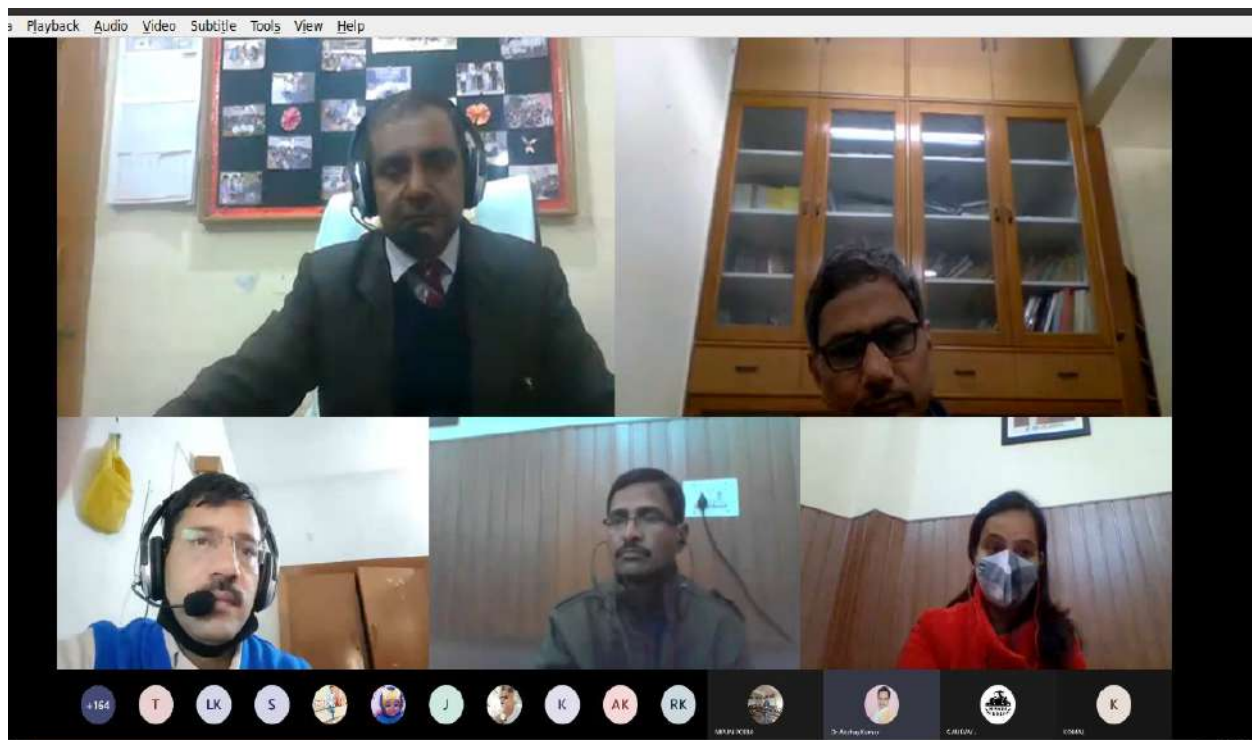
12) Mr. Sanjay of B.Sc. 5th sem. participated in **Inter College Online PowerPoint Presentation Contest** organized by Department of Mathematics, D.A.V. (Lahore) College, Ambala City on December 22, 2020 and secured **Third position**.

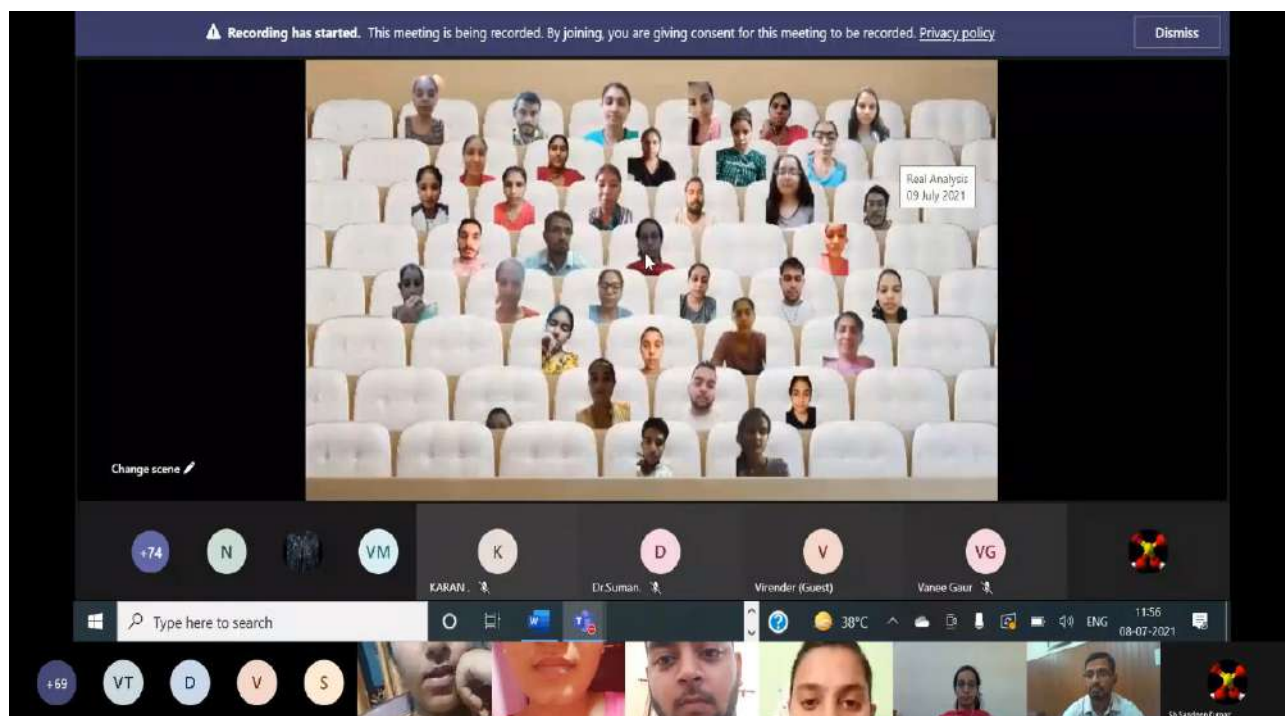
13) Ms. Kalpana of B.Sc. 5th sem. successfully completed **National Level Quiz** on Covid-19 on April 25, 2020 with 100% passing score organised by Markanda National College, Shahabad.


14) Ms. Tanya of B.Sc. 3th Sem. participated in **Abhivyakti 6th National Literacy Fest, Chandigarh** held on 7th December to 10th December 2020 and got **Consolation prize**.

15) Ms. Jeevan of M.Sc. 4th Sem. participated in Participated in **National Level Online Poster Making Competition** organized by Ahir College, Rewari on 5 June 2021 and secured **Second position**.

Chemistry Association







Reagents in Organic Synthesis

Virender Singh, PhD
Associate Professor in Chemistry
Central University of Punjab
Bathinda
Virender.singh@cup.edu.in

Academic & Professional Carrier:

- ❖ M.Sc. Organic Chemistry, Kurukshetra University, Kurukshetra (2003 – 2005) - Gold Medalist in M. Sc. Chemistry
- ❖ Qualified CSIR-JRF (NET) four time and GATE (97.32 percentile) - All India Rank 92
- ❖ Ph.D. Synthetic Organic Chemistry, CSIR-Central Drug Research Institute (CDRI), Lucknow (2006 – 2011) under the supervision of Dr Sanjay Batra, Principal Scientist - Best Thesis Award
- ❖ Selected for prestigious CSIR-Nehru & D S Kothari Postdoc fellowship (Not availed)
- ☐ Associate Professor at Central University of Punjab, Bathinda (2020 – till date) - 1.5 Year T & R Experience
- ☐ Assistant Professor at NIT Jalandhar (March 2012 – Feb 2020) - 08 Year T & R Experience

Total number of publication: 62

- PhD Awarded = 04
- PhDs Ongoing = 05
- M. Sc. Dissertations = 23
- Total Citation = 1257
- h index = 19
- i10 index = 29
- Total Impact Factor = 147.374
- Average I F = 2.377
- Book Chapter = 02

Research Projects as PI (03 completed + 02 ongoing)

- CSIR EMR Research Project (02(0356)/19/EMR-II) & RSM CUP - Ongoing 33,56,000
- SERB-DST, New Delhi research grant EMR/2017/000155 (3605800) -Complete 2017-21
- DST Fast-Track Young Scientist Grant SB/FT/CS/188/2011 (2370000)-Completed 2014-17
- CSIR EMR Research Project 02(0202)/14/EMR-II (1542000) -Completed 2015-18
- TEQIP-II & III sponsored 08 Minor research project (329000) -Completed 2015-18

Research Project Submitted

- ❖ SERB-DST, New Delhi (CRG)

+64
SK
VT
A
PD
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