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## **Annual Report Session 2023-2024**

Dr. Bhim Rao Ambedkar Government College, Dabwali was opened/started by the Haryana Government in Mandi Dabwali in the year 2007 with a name as Govt. College, Mandi Dabwali. Later on, in 2014, the state Government has changed its name from Government College, Mandi Dabwali to Dr. Bhim Rao Ambedkar Government College, Dabwali; and the college was shifted to the newly constructed building in August 2014 at village Dabwali near National Highway No.9 from Mandi Dabwali to Sirsa. It has total area of 171 Kanal, 10 Marle (86754.467 Sq.mtr) out of which 7884.84 Sq. mtr. is build up or covered area.

The Government of Haryana has started this college in Dabwali to cater to the needs of the youth who want to pursue higher education because there was no Government College within a radius of 60 K.Ms. This college not only caters to the needs of aspirants for higher education of Haryana state youth, but the youth of Punjab and Rajasthan also take admission to various courses in the college because of its very good road and railway connectivity to this region.

The college is affiliated to Chaudhary Devi Lal University, Sirsa. It runs B.A. (General) B.A. (Hons. Punjabi), B.Sc (Non-Medical), B.Com, B.Sc.(Physical Health and Sports Education) and M.A Punjabi.

To enhance the overall development of the students, the college offers other extra-curricular activities, such as sports, cultural events, and social service programmes apart from providing quality education.

The college has a well-equipped Library with 10449 books on academic subjects and competitive examinations. The college has well equipped Physics, Chemistry, Geography, Psychology, Computer Labs and Language Lab enable students to access digital learning resources and enhance their learning experience. The qualified and experienced faculty members are committed for all round development of the students, not only academically, but through extra curricular activities, socialization with peers, by exploring new habits and interests through various cells, clubs and subject societies to make the students conscious of their social responsibilities so that they may make meaningful contribution to the society.

**Following activities were organized in the college under different Committees/Cells/ Subject Societies during the session 2023-2024.**

### **Youth Red Cross Activities**

1. Cardiopulmonary Resuscitation Training was organized on 09-08-2023.
2. Essay Writing Competition was organized on "Contribution of Education in the Economic Development" on 14-10-2023.
3. Participation in District-Level First Aid Training Camp by Counselor along with five students from 16th to 20th October 2023. The student named Devanshu got first prize in singing and Anamika got second prize in dancing during the camp.

4. Four Students and the In-charge attended Red Ribbon training on HIV/AIDS on 31-10-2023 at Civil Hospital Sirsa.
5. Magic show was organized on 03/11/2023.
6. Distribution of information and awareness material in printed form related to HIV/AIDS on 08/05/2024.

### **Women Cell Activities**

1. Mehendi Competition was organized on 31<sup>st</sup> October 2023 on the occasion of Karwa
2. Chauth. In which 35 students participated in the competition.
3. A talk by SHO with girls was arranged to know the problems of the female students, and Durga Shakti App installation on 08<sup>th</sup> November 2023. Ms. Seema Sodhi addressed approximately 100 students.
4. A one-week Judo Karate Training Workshop was organized from 10<sup>th</sup> to 16<sup>th</sup> January 2024. In which, on average, 20-25 students were trained in self-defence.
5. The competition in the game Judo Karate was held on 16<sup>th</sup> January 2024. In which 26 students participated.
6. A two-day workshop on "Colour Wheel" was organized from 15<sup>th</sup> to 16<sup>th</sup> January 2024. Ms. Ritu Artist
7. Stitching and Tailoring Workshop was organized from 19<sup>th</sup> to 26<sup>th</sup> February 2024. Approximately, on average, 40 to 50 students attended the training. Ms. Kirandeep Kaur imparted the training to the students.

### **Placement Cell Activities**

1. Extension Lecture was delivered by Professor Umed Singh, department of English, CDLU Sirsa on "Importance of English for Job Opportunities" on 06/11/23.
2. Extension Lecture was delivered by Dr. Ashok Sharma, Chairperson, Department of Physical Education, CDLU Sirsa on "Development of Physical Education and Sports in India" on 07/11/23.
3. Extension Lecture was delivered by Gurjeet Singh Mansahia, Assistant Professor Department of Punjabi, Govt. Rajindra College, Bathinda on "Punjabi jagat vich parvas da vartara: Sahitak Pakh" on 06/11/23.
4. Extension Lecture was delivered by Sh.Aakash Soni on "Importance of Career Counsel and Guidance" on 22/03/24.

### **Sports Activities**

1. Inter House Rassa - Kashi Competition was organized on the occasion of birth day of Major Dhyan Chand (National Sports Day 28/08/23).
2. Participation in Drug free Haryana program at Sirsa on 17/09/23.
3. Organized Drug free Haryana lecture by Sh.Vikrant Bhushan, D.G.P Haryana on 09/10/23.
4. Participation in Drug free Haryana Half Marathon at Dabwali on 14/10/23.
5. Organized Inter-college Basketball Championship on 17-18/10/23.
6. Secured 1st position in Inter-College Basketball (men) Championship on 17/10/23.
7. Secured 3rd position in Inter College Basketball ( women) Championship on 17/10/23.
8. Organized Har Ghar Tiranga Program Rally on 21/10/23.

9. 04 players of this collage were selected for North Zone Inter-university Basketball (men) Champions on 30/10/23.
10. Participation in North Zone Inter-university Basketball (women) Champions
11. Participation in Inter-college Kabaddi (M & W) Championship.
12. Participated and secure 3rd position in Inter-college Rifle Shooting Championship.
13. Organized Annual Athletics Meet on 28-29/02/2024.

### **Road Safety Activities**

1. Intra College Road Safety Quiz competition was organized on 14 13/10/2023, number of students participated were 90.
2. District level Road Safety Quiz competition was organized on 10/11/2023, number of students participated were 03.
3. Road Safety Awareness Rally was organized on 04/03/2024, number of students participated were 60.

### **NSS Actvites**

1. Tree Plantation drive under 'Meri Maati-Mera Desh' Campaign was organized on 14 Aug, 2023.
2. Celebration of Independence Day on 15 Aug, 2023.
3. Participated in "Cyclothon" statewide awareness on Drug free Haryana under the aegis of Haryana Uday organized on 19 Sept, 2023.
4. Celebration of NSS Day on 24 Sept, 2023.
5. Cleanliness Drive (Under Ek Tareekh Ek Ghanta Campaign) organized on 01 Oct, 2023.
6. Cleanliness drive under 'Swachhata Hi Sewa Campaign' organized on 04 Oct, 2023.
7. Cleanliness Drive under 'Swachhata Hi Sewa Campaign' organized on 05 Oct, 2023.
8. Amrit Kalash Yatra under the 'Meri Maati-Mera Desh Campaign' organized on 14 Oct, 2023.
9. Panch Pran Prathiksha taking ceremony under the 'Meri Maati-Mera Desh Campaign' 14 Oct, 2023.
10. Tree Plantation under the 'Meri Maati-Mera Desh' Campaign organized on 18 Oct, 2023.
11. Participated in Khadi Quiz Competition (Online) and watched a 3 min film of Khadi Mahotsav on 20 Oct, 2023.
12. Khadi E-Pledge (Online) organized on 20 Oct, 2023.
13. NSS One Day Camp on 24 Oct, 2023.
14. Participated in Run for Unity and Unity Pledge on National Unity Day on 31 Oct, 2023.
15. Distributed warm clothes, shoes, utensils among needy persons organized on 22 Dec, 2023 – 23 Dec, 2023.
16. Volunteers performed the assigned duty during CRID Survey during month of Jan to month Mar 2024.
17. Celebration of National Youth Day on 12 Jan, 2024.
18. Workshop for Registration on My Bharat on 18 Jan, 2024.
19. Celebration of Republic Day on 26 Jan, 2024.
20. NSS One Day Camp organized on 24 Feb, 2024.
21. Seven Day Special Camp on the theme "Save Environment, Save Humanity" with sub themes Beti Bachao-Beti Padhao, Cashless Society, Cleanliness, Digital

Literacy, Financial Literacy, Road Safety Activities, Personality Development, Digital India-Clean India, Awareness regarding Health and Hygiene, Water Conservation, Awareness Regarding Pollution and Protection of Environment, Anti-Drugs Awareness, Voter Awareness, Character building of Youth, Upliftment of the Nation, etc. organized on 01 Mar, 2024-07 March 2024.

22. Tree Plantation Drive organized on 22 March, 2024.
23. Voter pledge taking ceremony and voter awareness through Selfie Point under SVEEP Campaign for Lok Sabha Election 2024 organized on 05 Apr, 2024.
24. Mass Voter Pledge taking ceremony at District Level under SVEEP Campaign for Lok Sabha Election 2024 organized on 25 Apr, 2024.
25. Celebration of World environment Day on 05 Jun, 2024.
26. Celebration of International Yoga Day on 21 Jun, 2024.

### सांस्कृतिक गतिविधियां

1. दिनांक 09.08.2023 को प्रेरणा समारोह के अंतर्गत विद्यार्थियों को महाविद्यालय की विभिन्न कमेटियों एवं सेल के बारे में जानकारी दी गई।
2. दिनांक 01.09.2023 से 07.09.2023 तक उच्चतर शिक्षा विभाग की ओर से साक्षरता सप्ताह के अन्तर्गत दिनांक 06.09.2023 को हिन्दी विभाग व सांस्कृतिक गतिविधियों की प्रभारी डॉ शन्नो देवी व अंग्रेजी विभाग के संयुक्त तत्वाधान में साक्षरता अभियान के अन्तर्गत जागरूकता रैली निकाली गई।
3. दिनांक 08.09.2023 को विद्यार्थियों के लिए साक्षरता अभियान, नशे के विरुद्ध जंग, व अनुशासन की अनुपालना, विद्यार्थी जीवन की अनुपालना आदि विषयों से ओतप्रोत वाद विवाद प्रतियोगिता का आयोजन किया गया।
4. दिनांक 16.09.2023 को महाविद्यालय में प्रतिभा खोज प्रतियोगिता का आयोजन किया गया जिसमें सांस्कृतिक गतिविधियों के अंतर्गत विभिन्न प्रकार की प्रतियोगिताओं का आयोजन किया गया।
5. दिनांक 17.09.2023 को शहीद भगत सिंह स्टेडियम में प्रातः 5 बजे सिरसा में 'ड्रग्स फ्री हरियाणा' के अंतर्गत साइक्लोटॉन रैली में सभी स्टाफ सदस्यों व विद्यार्थियों ने भाग लिया।
6. दिनांक 04.11.2023 से 08.11.2023 तक 10th यूनिवर्सिटी यूथ फेस्टिवल "त्रिवेणी युवा महोत्सव एक संकल्प नशे के विरुद्ध" में पेंटिंग, मेहंदी प्रतियोगिता, क्विज कंपटीशन, एलोकेशन, फॉक सॉन्ग, भजन में विद्यार्थियों ने भाग लिया।
7. दिनांक 09.02.2024 व 10.02.2024 को मानव संसाधन विकास योजना के अंतर्गत महानिदेशक उच्चतर शिक्षा निदेशालय के निर्देशानुसार दो दिवसीय सांस्कृतिक कार्यक्रम का आयोजन किया गया, जिसमें भजन/शब्द, मोनो एक्टिंग, शास्त्रीय नृत्य, रंगोली, मिमिक्री, ग्रुप डांस, कविता उच्चारण, गजल, लोक सॉन्ग, सोलो डांस, स्किट, वाद्य वादन आदि कई प्रतियोगिताओं का आयोजन किया गया। लगभग 100 प्रतिभागियों ने इसमें भाग लिया व 52 विद्यार्थियों को क्रमशः 300/-, 200/-, 100/- रुपए का नगद पुरस्कार प्रदान किया गया।

8. दिनांक 09.03.2024 को अंतर्राष्ट्रीय महिला दिवस के अवसर पर "वर्तमान युग में महिलाओं की भूमिका" विषय पर छात्रों के लिए डॉ. भारती सनेजा एवं डॉ रणवीर यादव का एक विस्तृत व्याख्यान करवाया गया।

## Activites of Subject Societies

### • Economics Subject Society

1. An essay writing competition was organized on the topic 'Role of Education in Economic Development' in collaboration with the Youth Red Cross Society. In which seventeen students participated.
2. A seminar on "Career in Financial Markets" on 14<sup>th</sup> March 2024. Sh Sumedh Baghla (C.A.), founder of Skill Raise Bathinda, awared of the students about various courses, tests, and jobs in financial markets.

### • English Subject Society

A Literary Week (1-8) September in compliance to the DHE directions was organized by English Literary Society under the guidance of Dr. Ranbir Yadav in which Poster Making, Slogan Writing, Debate and Speech Competition were held to spread literary awareness among the students.

In Poster Making Competition Veervinder Kaur of B.A.-II got first position, Navdeep Kaur of B.A.-II got second position and Banty of B.A.-I got third position whereas in Slogan Writing Monika of B.A.- III got first position, Lovepreet Kaur of B.A.-III got second position and Sanna Rani of B.A.-I got third position. In this competition 21 students participated.

In Debate and Speech Competition 12 students participated. In Debate Hanuman and Nayan got first position, Pardeep and Abhishek got second position, Anu and Kanta got third position. In Speech Aasvir of B.A.-III got first position, Hanuman of B.A.-III got second position and Ravinder of B.A.-II got third position.

### • History Subject Society

1. Essay Writing Competition on the occasion on" Lal Bhadur Shastri, Mahatma Gandhi, and Bhagat Singh Jayanti" was organized on 04-10-2023, number of students participated were 47.
2. Collage Competition on the occasion of "International Women's Day". was organized on 07-03-2024, number of students participated were 26.
3. Organised Extension Lecture on "Spoken English, IELTS & PTE/TOFEL" by Pawan Bishnoi on 12-03-2024, number of students participated were 98.

## • Commerce Society Activities

1. Story Telling Competition was organized on 25/09/2022, number of students participated were 21.
2. Extension Lecture on "Financial Literacy" delivered by Sh. Surender Kumar, NCFE Trainer, Sirsa was organized on 05/03/2024, number of students participated were 81.

## • Chemistry Department Activities

1. District level science quiz competition was organized on 26/09/2023, number of students participated were 06.
2. District level science essay writing competition was organized on 27/09/2023, number of students participated were 03.
3. Inter-district science exhibition organized was on 27/01/2024, number of students participated were 02.
4. Zonal level science quiz competition was organized on 31/01/2024, number of students participated were 03.
5. Intra College science quiz competition was organized on 06/04/2024 number of students participated were 18.

## • Mathematics Subject Society

1. Assessment Test in the subject of Mathematics was organized by the college Mathematical Society to assess the students' knowledge of mathematical concepts and their ability to solve problems using various mathematical techniques. Total of 09 students participated in this activity.

## • Physics Department Activities

1. District level science quiz competition was organized 26/09/2023, number of students participated were 06.
2. District level science essay writing competition was organized 27/09/2023 number of students participated were 03.
3. Zonal level science quiz competition was organized 31/01/2024 number of students participated were 03.
4. Intra College science quiz competition organized was 06/04/2024 number of students participated were 18.

## • Geography Subject Society

1. 20/09/2023 को 'आपदा प्रबन्धन' विषय पर एक पोस्टर मेकिंग प्रतियोगिता का आयोजन किया गया। जिसमे 12 विद्यार्थियों ने भाग लिया।
2. 11/10/2023 को 'सौर ऊर्जा' विषय पर एक भाषण प्रतियोगिता आयोजित करवाई गई जिसमे 14 विद्यार्थियों ने भाग लिया।

3. 27 जनवरी 2024 को राजकीय महिला महाविद्यालय, हिसार द्वारा करवाए गए District level science exhibition में महाविद्यालय के भूगोल विभाग की तरफ से 'Storage and Supply of Water' विषय पर माडल का प्रदर्शन किया गया। जिसको द्वितीय स्थान हासिल हुआ।
4. 29/01/2024 को 'Sustainability and Geography' विषय पर एक विस्तार व्याख्यान हिमाचल प्रदेश विश्वविद्यालय, शिमला के भूगोल विभाग से एसोसिएट प्रो. डा. बी. आर. ठाकुर से करवाया गया।

## हिंदी विषय परिषद

1. दिनांक 09.09.2023 को हिंदी विभाग की ओर से हिंदी विषय परिषद का गठन करने के लिए निबंध प्रतियोगिता का आयोजन किया गया। जिसमें जगदीप कौर प्रधान नवदीप कौर उपप्रधान संदीप कौर सचिव प्रदीप कुमार वित्त सचिव, नयन कुमार, युवराज रविंद्र को कार्यकारिणी सदस्य चुना गया।
2. दिनांक 14.09.2023 हिंदी दिवस के अवसर पर निबंध प्रतियोगिता का आयोजन किया गया। जिसमें नवजोत कौर प्रथम, वीरपाल कौर द्वितीय, शकुंतला ने तृतीय स्थान प्राप्त किया।
3. दिनांक 14.09.2023 को कन्या महाविद्यालय खरखोदा सोनीपत में ऑनलाइन कविता उच्चारण प्रतियोगिता में अनमोल व सेवक ने भाग लिया। जिसमें अनमोल ने Rs. 700/- की नगद राशि जीतकर द्वितीय स्थान प्राप्त किया।
4. दिनांक 12.10.2023 को उच्चतर शिक्षा निदेशालय के निर्देशानुसार भारतीय भाषा उत्सव के अंतर्गत निबंध लेखन प्रतियोगिता का आयोजन किया गया जिसमें शकुंतला ने प्रथम वीरपाल कौर ने द्वितीय वह नवजोत कौर ने तृतीय स्थान प्राप्त किया।
5. दिनांक 26.10.2023 को "भारतीय भाषा दिवस" के अंतर्गत कविता उच्चारण प्रतियोगिता का आयोजन किया गया, जिसमें सेवक सिंह, हर्षदीप, आसवीर कौर ने क्रमशः प्रथम, द्वितीय, तृतीय पुरस्कार प्राप्त किया।
6. दिनांक 05.03.2024 को एन.सी.एफ.एफ के ट्रेनर श्री सुरेंद्र कुमार ने "भारत में वितीय समावेशन और निवेशक जागरूकता" विषय पर विस्तृत व्याख्यान का आयोजन किया। जिसमें तृतीय वर्ष वह वाणिज्य विभाग के लगभग 81 विद्यार्थियों ने इस व्याख्यान का लाभ उठाया।
7. दिनांक 20.03.2024 को शहीदी दिवस पर कविता उच्चारण का आयोजन किया गया, जिसमें अनमोल ने प्रथम, हनुमान ने द्वितीय व अनामिका ने तृतीय स्थान प्राप्त किया।
8. दिनांक 20.03.2024 को "शहीदी दिवस" पर कविता उच्चारण का आयोजन किया गया जिसमें अनमोल ने प्रथम, हनुमान ने द्वितीय, अनामिका ने तृतीय स्थान प्राप्त किया।
9. दिनांक 20.03.2024 को जे.सी.डी इंस्टिट्यूट ऑफ बिजनेस मैनेजमेंट सिरसा के द्वारा यूफोरिया 2 के अंतर्गत बी.ए तृतीय वर्ष से प्रदीप कुमार ने पेंटिंग प्रतियोगिता में द्वितीय स्थान प्राप्त किया।

10. दिनांक 21.03.2024 को जेसीडी सिरसा के द्वारा यूफोरिया 2 के अंतर्गत ही अमृतपाल कौर व संदीप कौर ने पंजाबी डांस में तृतीय स्थान प्राप्त किया।
11. दिनांक 27.03.2024 को सीनियर सिटीजन वेलफेयर एसोसिएशन ने शहीदी दिवस पर "शहीदे ए आजम भगत सिंह" की स्मृति में कविता उच्चारण व भाषण प्रतियोगिता का आयोजन किया, जिसमें अनमोल ने कविता में व हनुमान ने भाषण प्रतियोगिता में भाग लिया हनुमान ने भाषण प्रतियोगिता में प्रथम स्थान प्राप्त किया।
12. दिनांक 05.04.2024 को स्वीप कार्यक्रम के अंतर्गत मजबूत लोकतंत्र सब की भागीदारी में महाविद्यालय के सभी विद्यार्थियों को मतदान देने के लिए प्रेरित किया, व स्वतंत्र मताधिकार के प्रयोग के लिए शपथ दिलवाई।

## • पंजाबी साहित्य सभा

1. पंजाबी विज्ञा प्रीसद वॉलें 2-05-2023 नुं निघंय लेखनी मुकाबला कराईआ गिआ जिस विंच आधुनिक जुंग विंच नारी दा सभान ,मेघाष्टील डेन वरदान ना सराप, साहित्य सभान दा प्रीस, आदि विज्ञा विंच विचारणीयां ने वॉय चडु झड के भाग लिया इस विंच 8 विचारणीयां ने भाग लिया इस मुकाबले च सउपाल M.A.॥ने पहिला सभान पूपड कीडा नसपूड कौर M.A.॥ ने दूसरा ते सेनीआ B.A.॥ने तीसरा सभान पूपड कीडा॥

## Personal achievements of staff members during the session 2023-2024.

The details of personal achievements of staff members are as follows:

### Dr. Bharti Brar, Associate Professor of Commerce

Participated in the following:

1. PROGRAM” organized by Guru Angad Dev Malaviya Mission Teacher Training Centre, SGTB Khalsa College, University of Delhi on 22nd October 2023.
2. RUSA Sponsored Skill Enhancement Course on Data Analytics using Machine Learning organized by DCSA, Panjab University, Chandigarh on 31<sup>st</sup> Oct to 10<sup>th</sup> Nov 2023
3. Workshop on NIRF organized by Haryana Statistical Cell, DHE, Panchkula on 26<sup>th</sup> December 2023
4. Workshop on NIRF organized by Haryana Statistical Cell, DHE, Panchkula on 9<sup>th</sup> January 2024
5. Haryana Karamyogi Training held at DIET, Ding Mandi, Sirsa on 26<sup>th</sup> June 2024

As Resource Person

Delivered two lectures on "Online Entrepreneurial Opportunities" and "Cyber Safety Tips for Women" in Workshop organized by Women Cell of Govt. National College, Sirsa on 30<sup>th</sup> Jan 2024.

### **Dr. Usha Bhati, Associate Professor of Commerce**

- **Published Research Paper Titled:** Determinants of foreign direct investment: an evidence from developing countries, published in international research, publication and reviews of volume 4, issue 10, October 2023
- **Attended workshops/ trainings on the topic:**
  1. HKRN portal usage and issue resolution on 08/12/2023 at Kaushal bhawan, Panchkula.
  2. NAAC; training seminar at GNC Sirsa on 23/12/2023
  3. KARMYOGI training at DIET Ding Mandi on 28/06/2024

### **Dr. Manjeet Kumar, Assistant Professor of Mathematics**

- **Abroad Universities Visit**
  1. Visited China University of Petroleum, Qingdao and Hohai University, Nanjing, China from 09-11-23 to 17-11-23 on the invitation of China University of Petroleum, Qingdao.
- **Editorial Board Member**
  1. Journal of advanced research in micro and nano engineering
- **Doctoral Research Guidance**
  1. Mr. Madan Lal (In progress, CDLU, Sirsa)
  2. Mr. Amandeep (In progress, CDLU, Sirsa)
- **Recent Research Collaborators**
  1. Prof. Xu Liu, College of Petroleum Engineering & Geosciences, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.  
Prof. Li-Yun Fu, China University of Petroleum, Qingdao, East
- **Research Publications in Refereed SCI Journals (International)**
  1. Cattano Christov double diffusion model for third grade nanofluid flow over a stretching Riga plate with entropy generation analysis. Kumar, M., Kaswan, P., Kumari, M., Ahmad, H., Askar, S. Heliyon, 2024, 10(10), e30188, Impact Factor: 3.4.
  2. Novel methods to determine the slowness and ray-velocity vectors in viscoelastic anisotropic media. Zhou, B., Liu, X., Wang, P., Kumar, M. Geophysical Journal International, 2024, 236(2), pp. 1053–1067, Impact Factor: 2.8.
  3. Vibrations in piezothermoelastic micro-/nanobeam with voids utilizing modified couple stress theory. Duhan, A., Sahrawat, R.K., Kumar, K., Kumar, M. Mechanics of Advanced Materials and Structures, 2024, Impact Factor: 3.6.
  4. Inhomogeneous Wave Propagation in Triple-Porosity Medium. Kumar, M., Lal, M., Kumari, N., Kaswan, P., Kumari, M. Journal of Vibration Engineering and Technologies, 2024, Impact Factor: 2.1.

5. Inhomogeneous waves propagation in double-porosity thermoelastic media. Kumar, M., Bhagwan, J., Kaswan, P., Liu, X., Kumari, M. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33(8), pp.2927–2962, Impact Factor: 4.
6. Rayleigh waves in nonlocal generalized thermoelastic media. Kumar, M., Kaswan, P., Sarkar, N., Liu, X., Kumari, M. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33(6), pp.2049–2072, Impact Factor: 4.
7. Analysis of a bioconvection flow of magnetocross nanofluid containing gyrotactic microorganisms with activation energy using an artificial neural network scheme. Kaswan, P., Kumar, M., Kumari, M. Results in Engineering, 2023, 17, 101015, Impact Factor: 6.
8. Reflection/transmission of plane waves at the interface of an ideal fluid and nonlocal piezothermoelastic medium. Gupta, V., Kumar, R., Kumar, M., Pathania, V., Barak, M. S. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33(2), pp. 912–937, Impact Factor: 4.

- **International Conferences**

1. Propagation characteristics of seismic waves in double-porosity thermoelastic media. 2<sup>nd</sup> International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2023). March 03-04, 2023; Hamirpur (Himachal Pradesh) INDIA

- **Refresher/Short Term Course**

1. Online two-week Interdisciplinary Refresher Course in “ADVANCED RESEARCH METHODOLOGY” from 22 August – 05 September, 2023 and obtained Grade A+. Teaching Learning Centre, Ramanujan College University of Delhi.
2. Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’ held from 12-20 June, 2023 and obtained ‘A’ Grade. INDIRA GANDHINATIONAL OPEN UNIVERSITY, Staff Training and Research Institute of Distance Education New Delhi-110068.

- **Invited Talks/Lectures**

1. Participated as an Invited Tutor and has conducted 06 Tutorial Sessions in the Two Week NCM Instructional School for Teachers on "Principles of Continuum Mechanics" organized by the Department of Mathematics, J. C. Bose University of Science and Technology, YMCA, Faridabad from June 3-15, 2024.
2. Invited lecture on "Reflection of attenuated waves at the surface of an unsaturated porous solid" held on November 17, 2023, China University of Petroleum, Qingdao, China.
3. Invited lecture on "Inhomogeneous waves propagation in partially saturated porous media" held on November 14, 2023, Hohai University, Nanjing, China.

### **Dr. Anju Bala, Assistant Professor of Economics**

1. Attended a Refresher course in Economics from 04 December to 16 December 2023, organized by the University of Rajasthan, Jaipur.

3. Completed the NEP 2020 Orientation & Sensitization Programme organized by UGC Malaviya Mission Teacher Training Centre, National Institute of Educational Planning and Administration, New Delhi from 01-10 April 2024.
3. Presented the paper on "*Historical Experiences of the Selected Economies with Industrialisation: The Patterns and Trends*" in the 17th GJ-IntConMITE held on 22nd December 2023, at Gian Jyoti Institute of Management and Technology, Mohali.
4. Presented the paper "*Rural Women: Empowerment through Education*" in a National Seminar organized by Government College Barwala, Panchkula on Rural Development in India: Challenges Vs. Opportunities on 29-01-2024.
5. Presented the paper "*Paving the Foundation for Digital Revolution for Sustainable Development*" in a two-day national Seminar (Multi-Disciplinary) on Issues and Challenges of Commerce in Trillion Dollar Indian Economy, organized by Smt. Aruna Asaf Ali Government P. G. College Kalka (Panchkula), Haryana on 22<sup>nd</sup>-23<sup>rd</sup> February 2024.
6. Presented the paper "*Role of Startups in Economic Development*" in a National Seminar organized by Government College Bhattu Kalan, Fatehabad on 18-03-2024.

## Dr. Rajpal Verma, Assistant Professor of Chemistry

### • Research Publications

1. Rajpal Verma, Gaurav Dhingra, Gurdeep Singh, Jaswinder Singh, Nidhi Dureja, and Ashok Kumar Malik. "Efficient turn-on Zr based metal organic framework fluorescent sensor for ultrafast detection of danofloxacin in milk samples." *Journal of Fluorescence* (2023): 1-12.
2. Gurdeep Singh, Deepika Garg, Sanjay Kumar, Rajpal verma, Ashok Kumar Malik. "Terbium-based dual-ligand metal organic framework by diffusion method for selective and sensitive detection of danofloxacin in aqueous medium." *Environmental Science and Pollution Research* 30.48 (2023): 106015-106025.
3. Gurdeep Singh, Rajpal verma, Kirandeep Kaur, Deepika Garg, Sanjay Kumar, Ashok Kumar Malik. "Facile Layer Diffusion Technique for Synthesis of Terbium-Based Metal Organic Framework for Fluorometric Sensing of Hydroquinone." *Journal of Fluorescence* (2024): 1-11.

### • Refresher/Short Term Course/Workshop

4. Successfully Completed online two-week Interdisciplinary Refresher Course (Ramanujan College University of Delhi) in "ADVANCED RESEARCH METHODOLOGY" from 22 August to 05 September 2023 and obtained Grade A+
5. Completed the training (Master Trainer) of 'Karmayogi mission Haryana' at HIPA Gurugram, Haryana on 12-13 January 2024.

### • Invited Talks/Lectures

6. Invited lectures for promotion of Science education at GSSS, Bijjuwalion 10/04/2024 and at GSSS Pipli on 29/03/2024, under Monitoring and Mentoring of Schools by Higher Education Institutes.

### **Dr. Surender Pal, Assistant Professor of Geography**

1. Participated in Short-term course (STC) on 'Disaster Management' organised by UGC-Human Resource Development Centre, Kumaun University, Nainital from 24.07.2023 to 31.07.2023.
2. Participated in Short-term course on 'E-Content Development and MOOCs' organised by UGC-Human Resource Development Centre, University of Hyderabad from 21<sup>st</sup> to 26<sup>th</sup> August, 2023.
3. Attended training regarding NAAC at CMRJ Govt. College, Mithi Sureran (Ellenabad) on 11 January, 2024.
4. 'Impact of Population Growth on Environmental Degradation' a paper presented in Multidisciplinary National Seminar on 'Green and Clean Environment: Initiative and Challenges' organised by Govt. Post Graduate College for Women, Rohtak held on 20<sup>th</sup> January, 2024.
5. Participated in NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) organised by Malaviya Mission Teacher Training centre, Kumaun University, Nainital from 18-27 March,
6. Attended training regarding 'Karamyogi' at DIET (Ding), Sirsa on 28 June, 2024

### **Dr. Anjali Sachdeva Assistant Professor of History**

1. One week Faculty Development Programme on "National Education Policy-2020" organised by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with DAV College, Jalandhar on 28-08-2023 to 03-09-2023
2. Inter-Disciplinary two-week Refresher Course in "Managing Online Classes & Co-creating MOOCs 28.0" organised by Teaching Learning Centre, Ramanujan College, University of Delhi on 06-07-2023 to 20-07-2023
3. Paper on Modern Education in Punjab in the "British Era : A Historical Analysis" at International Conference of Global Educational Research Association in Hybrid Mode on Technology Impregnated Education and Community Participation and Akhand Diashop on Mapping Life Skills of Rural Punjab at Guru Kashi University, Talwandi Sabo on 06-11-2023 to 08-11-2023

### **Dr. Shanno Devi, Assistant Professor of Hindi**

1. नेहरू राजकीय स्नातकोत्तर महाविद्यालय फरीदाबाद में 29.08.2023 को एक दिवसीय मल्टीडिसप्लिनरी ऑनलाइन सेमिनार में "शारीरिक शिक्षा में योग का महत्व" विषय को प्रस्तुत कर सेमिनार में भाग लिया।
2. 01.12.2023 to 14.12.2023 attended two week online Refresher course in "Research methodology and academic writing" from BPSMV, Khanpur Kalan Sonapat.

3. Completed NEP 2020, Orientation and sanitization programme under Malviya mission teacher training programme from BPSMV, Khanpur Kala from 21.12.2023 to 30.12.2023.
4. दिनांक 18.03.2024 को राजकीय महाविद्यालय भट्ट कला फतेहाबाद में वनडे नेशनल सेमिनार आयोजित किया गया, जिसमें भारत की "अर्थव्यवस्था के विकास में स्टार्टअप की भूमिका" विषय को प्रस्तुत कर सेमिनार में भाग लिया।
5. दिनांक 21.03.2024 को "हिंदी साहित्य और स्त्री विमर्श" विषय पर माता हरकी देवी ओढ़ा में आयोजित एकदिवसीय नेशनल सेमिनार में भाग लिया।
6. On 28.06.2024 successfully completed the Haryana Karmayogi program under Mission Karmayogi.

### **Dr. Deepak Raj, Assistant Professor of English**

1. completed the 20-day Certificate Course (40 hours)/Refresher Course on Shrimad Bhagavad Gita: Enlightenment and Relevance organized by BHARATAM - Bhartiya Gyan Parampara: Adhyayan, Adhyapan Evam Anusandhan Kendra, held from 22 December 2023 to 10 January 2024.

### **Dr. Sunil Kumar Assistant Professor of Physics**

1. Two week Interdisciplinary Refresher Course in Advance Research Methodology, Organized by Teaching Learning Centre Ramanujan College, University of Delhi in collaboration with Hindu College, Moradabad and Gokul Das Hindu Girls College Moradabad from 22 August 2023 to 05 Sept. 2023.
2. One Day Training of Haryana Karmayogi Program on 26 June 2024.

### **Mr. Jaswinder Singh, Assistant Professor of Chemistry**

#### **• Research Publications**

1. Efficient Turn-On Zr Based Metal Organic Framework Fluorescent Sensor for Ultrafast Detection of Danofloxacin in Milk Samples Rajpal Verma, Gaurav Dhingra, Gurdeep Singh, Jaswinder Singh, Nidhi Dureja, Ashok Kumar Malik Journal of Fluorescence.

#### **• Refresher/Short Term Course/Workshop**

2. One Day Training of Haryana Karmayogi Program on 26 June 2024.

### **Dr. Bharti Saneja, Assistant Professor of Computer Science**

1. Participated in the 2 Week Online Refresher Course in Information Technology Organized by Kurukshetra University, Kurukshetra in 2023-2024 session.

### **Dr. Pradeep Kaswan, Assistant Professor of Mathematics**

#### **• Research Publications in Refereed SCI Journals (International)**

1. Stability Analysis of Dual Solutions for Nonlinear Radiative Magnetohydrodynamic Flow of Ag – TiO<sub>2</sub>/H<sub>2</sub>O Hybrid Nanofluid over a Nonlinearly Shrinking Surface. Kaswan, P., Kumar, M., Kumari, M., Mandal, G. Thermal Advances, 2024, 1, 100002.
2. Inhomogeneous wave propagation porothermoelastic medium with dual lag phase heat conduction. Kumari, M., Lather, P., Kumari, N., Kaswan, P., Kumar, M. Journal of Porous Media, 2024.
3. Wave-induced fluid flow and reflection/transmission of seismic waves at a fluid/double-porosity thermoelastic medium interface. Kumar, M., Singh, A., Kumari, N., Ahmad, H., Askar, S., Kaswan, P., Kumari, M. Physica Scripta, 2024, 99(8), 085026.
4. Entropy generation analysis of microrotating Casson's nanofluid with Darcy–Forchheimer porous media using a neural computing based on Levenberg–Marquardt algorithm. Kumar, M., Kaswan, P., Kumari, M. International Journal of Numerical Methods for Heat and Fluid Flow, 2024, 34(6), pp. 2285–2320.
5. Cattano Christov double diffusion model for third grade nanofluid flow over a stretching Riga plate with entropy generation analysis. Kumar, M., Kaswan, P., Kumari, M., Ahmad, H., Askar, S. Heliyon, 2024, 10(10), e30188.
6. Inhomogeneous Wave Propagation in Triple-Porosity Medium. Kumar, M., Lal, M., Kumari, N., Kaswan, P., Kumari, M. Journal of Vibration Engineering and Technologies, 2024.
7. Activation energy and convective heat transfer effects on the radiative Williamson nanofluid flow over a radially stretching surface containing Joule heating and viscous dissipation. Saini SK, Agrawal R, Kaswan P., Numerical Heat Transfer, Part A: Applications. 2024, 85(15):2534-57
8. Inhomogeneous waves propagation in double-porosity thermoelastic media. Kumar, M., Bhagwan, J., Kaswan, P., Liu, X., Kumari, M. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33(8), pp. 2927–2962.
9. Rayleigh waves in nonlocal generalized thermoelastic media. Kumar, M., Kaswan, P., Sarkar, N., Liu, X., Kumari, M. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33(6), pp. 2049–2072.
10. Analysis of a bioconvection flow of magnetocross nanofluid containing gyrotactic microorganisms with activation energy using an artificial neural network scheme. Kaswan, P., Kumar, M., Kumari, M. Results in Engineering, 2023, 17, 101015
11. Analysis of bidirectional flow of Williamson micropolar fluid in porous medium with activation energy and thermal radiation. Agrawal, R., Saini, S. K., & Kaswan, P. Numerical Heat Transfer, Part B: Fundamentals, 2023, 86(2), 262-287.

#### • International Conference

1. Paper presentation entitled “Dual Solutions and Stability Analysis of MHD Hybrid Nanofluid Flow with CNTs in a Porous Medium over a Stretching/Shrinking Sheet” in one-Day International Conference on "Indigenous Knowledge, Self-Reliance and Sustainability" held on 23rd February 2025 at Government College, Bhattu Kalan, Fatehabad, Haryana.

## • Refresher/Short Term Course/Workshop

1. Participated in Online two-week Interdisciplinary Refresher Course in ADVANCED RESEARCH METHODOLOGY organized by Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Hindu College, Moradabad Affiliated to M. J. P. Rohilkhand University, Bareilly, and Gokul Das Hindu Girls College, Moradabad Affiliated to M. J. P. Rohilkhand University, Bareilly, under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING from 22 August, 2023- 05 September, 2023.
2. Participated in the training of Master Trainers under Mission Karmayogi Haryana- Ethics & Values in Governance at Haryana Institute of Public Administration, Gurugram on 12-13 Jan, 2024.
3. Attended One day Workshop on "AISHE FOR SURVEY 2022-23" at GCW, Sirsa on 22/02/2024.

## 1. Invited Talks/Lectures

2. Delivered an extension lecture on "Introduction and Objectives of NSS" at Guru Nanak College Killianwali Punjab on 18 Mar, 2024.

  
Principal  
Dr. B.R. Ambedkar  
Govt. College  
Killianwali