



## Enrolment is Employment: Bridging Academia and Industry

*In an era where practical knowledge and industry exposure are the keys to career success, Bhartiya Skill Development University (BSDU) proudly stands as India's first pure skill university, transforming the education landscape.*

*Aligned with the National Education Policy 2020's emphasis on vocational training, BSDU provides a comprehensive higher education model providing students not merely with UGC-recognized degrees but also equips the graduates with essential skills as per the profile leading to a successful career. The university offers Skill Certificate, Diploma, Advanced Diploma, Bachelor of Vocation (B.Voc.), Master of Vocation (M.Voc.) and Ph.D. programs in vocational studies, preparing graduates for real-world professional challenges.*

*The globally acclaimed Swiss Dual Education System followed at BSDU effectively combines classroom instruction with extensive hands-on training in industries. This model in a major way focusses on practical application of knowledge against the traditional education emphasising more on theoretical knowledge leaving graduates inadequately prepared for workplace demands.*

*What makes BSDU distinct in Vocational Education is its close collaboration with industries. Through structured Workplace Training Programs, students gain real-world exposure, making them job-ready. This is ensured by having training agreements with Industry partners, developing curriculum for Workplace Training, allotting fifty percent credits for Workplace Training and having students spend almost sixty percent of their time exclusively at workplace. This collaborative approach benefits both students and industry partners. Graduates entering the job market as skilled workforce are already familiar with industry standards and best practices, while employers gain access to a pre-trained talent pool. This synergy fosters innovation, enhances employability, and contributes towards the economic development of the nation.*

*As India moves towards becoming a global skills hub, BSDU plays an important role in shaping a workforce that is not only technically skilled but also adaptable to evolving industry needs. By reimagining vocational education through its commitment to practical learning and the Swiss Dual Education model, the university is establishing itself as preferred educational destination across India, fulfilling the vision of founders- Late Dr. Rajendra Joshi and his wife, Mrs. Ursula Joshi, the current Chairperson, BSDU.*

## Editor's Desk

Dear Colleagues,

Welcome to the 13th issue of BSDU Newsletter!

The first half of 2024 has been a testament to BSDU's commitment to excellence in skill-education keeping pace with global educational standards.

This Newsletter is a witness to our dedication to hands-on skill development evident through intensive faculty upskilling programs, strategic industry partnerships, and international exposure initiatives. In addition, the remarkable student achievements in National competitions, successful implementation of innovative teaching tools, and enhancement of research capabilities underscore BSDU's dedication to creating a dynamic learning environment that bridges academia and industry, preparing our students for the evolving demands of the global workforce following the "For the Industry by the Industry" approach.

As we move forward, these achievements reflect our unwavering focus on practical skill development and industry-relevant education, setting a strong foundation for BSDU's continued growth as a leading institution in skill-based education.

Furthermore, the Newsletter has captured the vibrant spirit at BSDU evident in our celebrations of various occasions such as International Women's Day, Republic Day, and International Yoga Day, each reinforcing our inclusive values.

The Editorial team is grateful to the Management and the Publication Board for the support provided in bringing out this issue of Newsletter!!

**Dr. Sangeetha Noval**  
Offg. Dean, FGE



**Dr. Sunil Anand**  
Associate Professor, FAS



## Administrative Activities

### MoU's signed

The University signed the following significant Memoranda of Understandings in early 2024 underscoring BSDU's dedication to advancing industry-integrated educational excellence.

S. No.	MoUs with	Purpose	Date of signing
1	BSDU & Federation of Automotive Dealers Association (FADA)	Collaboration on B.Voc. in Automotive Skills Programme under the concept of "For the Industry by the Industry"	25 January 2024
2	BSDU & Schevaran-Cleanfix Academy of Cleaning Sciences Pvt. Ltd (SCA)	For offering Facility Management-Training Programmes	16 February 2024

### Board of Management Meeting held

S. No.	Date of BOM Meeting	Venue
1	29 February 2024	First Campus, BSDU

## Academic Activities

A series of Board of Studies meetings as detailed below were held as a part of a regular practice at BSDU, ensuring academic excellence and quality education.

S. No.	Name of the Faculty	Date of BOS Meeting	Chairperson
1	Faculty of Healthcare and Paramedic Skills Education	22 April 2024	Mr. Om Prakash Shrimal
2	Faculty of Manufacturing Skills Education	24 May 2024	Dr. B.K. Jha
3	Faculty of Automotive Skills Education	15 May 2024	Dr. Sunil Anand
4	Faculty of Electrical Skills Education	25 May 2024	Dr. Ritu Tak
5	Faculty of General Education	28 May 2024	Dr. Sangeetha Noval
6	Faculty of RAC Skills Education	28 May 2024	Dr. Sheetal Kumar Jain

7	Faculty of Computing Skills Education	30 May 2024	Dr. Sumitra Singar
8	Faculty of Construction Skills Education	9 July 2024	Mr. Chandra Kishore

## Co-Curricular Activities

### Upskilling Trainings

#### Faculty of Automotive Skills Education

- Dr. Vipin Pahuja underwent a 5-day training on Green Hydrogen PtX Electrolyser and Fuel Cell Installation at Gujarat Energy Research and Management Institute, Gandhinagar, Gujarat from 19 to 23 February 2024.
- Mr. Aman Sharma and Mr. Pranjal Maheshwari underwent a two-day training in refinish paint and surface preparation from Axalta Coating System Ltd. by the training expert Mr. Gajendra at BSDU new campus on 08 April 2024
- Mr. Pranjal Maheshwari, Mr. Ubed Ul Haque & Mr. Avneet regularly underwent industrial training at KIA & Mahindra workshops, Jaipur. The training took place for a day every week.



#### Faculty of Computing Skills Education

- Dr. Sumitra Singar, Mr. Dinesh Choudhary, Ms. Rikky Kumari and Mr. Sunil Saini attended an intensive 15-day industrial training programme in CISCO Networking. The training conducted at Upflairs Pvt. Ltd. in Jaipur from May 15-30, 2024 focused on enhancing the faculty's expertise in networking technologies and current industry practices.
- In a significant initiative towards exploring the best practices of education, BSDU provided an

international exposure to Dr. Sumitra Singar and Mr. Sumit by organizing a two-week educational tour to GIBB Vocational School in Bern, Switzerland, from 15-30 June 2024. The visit aimed to gain comprehensive insights into the renowned Swiss Vocational Education and Training (VET) system. The faculty members observed and studied the Swiss approach to vocational education, widely recognized for its excellence in combining theoretical knowledge with practical training. This international exposure contributed to the understanding of global best practices in vocational education and helped explore potential opportunities for implementing innovative teaching methodologies at BSDU.

### **Faculty of Healthcare and Paramedic Skills**

#### **Education**

- The trainers – Mr. Om Prakash Shrimal, In – Charge, Ms. Neha Masih and Mr. Ankit Prajapat, underwent an upskilling training from 5 – 16 March 2024 at the Red Cross Society for First Aid course.

#### **Faculty of Electrical Skills Education**

- Dr. Pancham Kumar and Mr. Yatendra Singh Hada attended a two-day training on 1 and 3 February 2024 at Wattscore Pvt Ltd. The training focused on solar panel mounting and connection, along with ACDB, DCDB, and inverter installation. They also attended a one-day session on Tine Shade Mounting of GI structure of PV panels on 22 March 2024.
- Dr. Ritu Tak attended a diverse training programme across multiple organizations. She started with Vision Automation in February 2024, attending a two-day session on 26 and 27 March on solar panel dismantling and mounting. In March 2024, she participated in Wattscore's one-day training on Tine Shade Mounting. She also attended a training on installing solar modules on structures and string wiring on 4 and 5 April, 2024 at Vision Automation.
- Dr. Satyendra Singh attended an extensive training across multiple sessions. He started with Wattscore

Pvt. Ltd. 12-13 February 2024 focusing on solar panel mounting structures followed with Vision Automation from 26-27 February 2024 on panel dismantling and mounting. On 15 March, he attended a session covering module structure assembly standards and installation. His training concluded with a two-day session on 4-5 April 2024.

- Mr. Kuldeep Singh received comprehensive training at multiple organizations. With Wattscore Energy Pvt. Ltd., he completed two significant sessions, from 27-29 January and 7-8 February 2024 respectively. The January session covered installation of solar PV modules on a pre-installed structure for a 10kW plant, while the February session focused on structural mounting and tool usage. He also attended training session at Vishwas Green Energy on 21 – 24 February 2024 and completed an extensive seven-day training with M.C. Sharma Engineering Works from 20-27 May 2024 focusing on large-scale 275 KW SPV plant installation.
- Ms. Priyanka Rathore participated in two detailed training sessions with Wattscore Energy from 27- 29 January 2024 covering complete solar PV system installation, including net metering and documentation and from 7-8 February 2024 on structural aspects and safety protocols.
- Mr. Yaduvendra Singh Rawat received his training at three organizations. He began with Pahal Solar in Surat, Gujarat from 8-10 February 2024, learning about solar panel manufacturing. He then attended a training at Wattscore Pvt. Ltd. from 12-13 February 2024 on panel mounting structures followed with a comprehensive seven-day session at M.C. Sharma Engineering Works from 20-27 May, 2024 focusing on large-scale 275kW SPV plant installation and associated technical skills.

#### **Faculty of Manufacturing Skills Education**

- Mr. Deepak Swami and Mr. Mukesh Kumar Khakhal participated in a six-day training programme at RS India from 4-9 March 2024.

- Mr. Rachit Tiwari completed an extensive 13-day training programme at Nestle, Pantnagar, from 10-24 March 2024.
- Mr. Madhusudan Singh and Shankar Lal Choudhary underwent training at Hilti Manufacturing India for 13 days, from 10-24 March 2024.
- Mr. Munendra Koli, Mr. Hemant Sharma and Mr. Dharpal Kumhar completed a 12-day training programme at Maxop Engineering Company Pvt. Ltd. from 9 – 23 May 2024.
- Mr. Anirudh Singh underwent two separate training programmes: first, a six-day training at Shakti Hormann Pvt. Ltd. in Hyderabad from 27 May to 1 June 2024, followed by an 11-day training at Arjan Precision Metals Pvt. Ltd. from 11 -25 June, 2024.
- Mr. Pranav Singhal completed an 11-day training programme at Arjan Precision Metals Pvt. Ltd. from 11-25 June 2024.
- Mr. Sumit Bhukar participated in a six-day training programme at GTTC, Bangalore from 13-18 May 2024.

### Faculty of Woodworking Skills Education

In collaboration with Felder Woodworking Machines Pvt. Ltd, FWS conducted an intensive 5-day **CNC machine training programme** from 3-5 June 2024, at their specialized workshop, providing the trainers of the Faculty members with advanced technical skills and hands-on experience in precision machining.

### Workshops/Trainings

- **The Faculty of Electrical Skills Education** held a training on the Electrical Safety module for 15 employees of Wipro Infrastructure Engineering. The training was held on 31 January 2024 by Dr. Ritu Tak, Officiating Dean & Associate Professor, FES and Mr. Kuldeep Singh, Senior Trainer-II.
- A 3-day Branch Course Practice was conducted by Mr. Alfred Blatter, a visiting faculty, FES from 11- 13 June 2024 for all the faculty members of FES. The training focused on action-oriented learning, conceptual learning for Branch courses, and

guidance on their evaluation methods and methodologies.



- Dr. Ritu Tak, Officiating Dean & Associate Prof., FES, and Dr. Pancham Kumar, Assistant Professor, attended a three-day residential workshop in "Design, Operations and Applications of Solar Mini-Grid Systems" at Nimli, Rajasthan organized by the Centre for Science and Environment from 19-21 June 2024.

### Corporate Trainings

- Aiming to address the industrial best practices, the **Faculty of Manufacturing Skills Education** successfully conducted a comprehensive corporate training programme for the first batch from the Wipro Infrastructure Engineering Pvt. Ltd. from 23-31 January 2024 to equip the employees with essential knowledge and techniques to enhance workplace performance and safety.



The seven-day training initiative benefitted the participants across multiple critical modules focusing on workplace safety, efficiency, and continuous improvement. The modules covered safety protocols, First Aid, Lean Concepts, 8 Wastes, Welding and Electrical Safety, 5S & Kaizen, My Machine Concept, Why-Why & Fishbone, Electrical Safety, TPM & OEE, Problem-solving Techniques, and Total Productive Maintenance.

The programme concluded with a valedictory ceremony on 31 January 2024, celebrating the participants' professional development and newly acquired skills in operational excellence.

- The Corporate Training Programme for the second batch of the employees of the Wipro Infrastructure Engineering Pvt. Ltd., was conducted from 23 January - 5 March 2024. It was a comprehensive 35-day skill development initiative benefitting 35 participants.



The programme offered an extensive curriculum covering diverse modules including Engineering Drawing, Shop Floor Discipline, Lean Concepts, Basic Measurement, Conventional Turning, Hand Skills, CNC Introduction, Hydraulics, Robotics, Welding, Painting, and Assembly. Designed to enhance technical proficiency and operational excellence, the training provided participants with in-depth exposure to critical manufacturing and engineering skills, emphasizing both theoretical knowledge and practical applications. The programme concluded with a valedictory ceremony on 5 March 2024, celebrating the

participants' professional growth and newly acquired competencies, reflecting Wipro Infrastructure Engineering's commitment to continuous learning and skill development in the manufacturing sector.

### Extra-Curricular Activities

#### Celebrating Spirit of Democracy on Republic Day

The 75th Republic Day was celebrated with great enthusiasm and patriotic fervour at the University. The celebration commenced with the ceremonial unfurling of the Tricolour by Registrar Dr. Sandeep Tomar, accompanied by Deputy Registrar Dr. Shaikh Juned and other dignitaries. The event witnessed active participation from BSDU employees and students who gathered to commemorate this significant national occasion.

Following the ceremony, Dr. Tomar and Dr. Juned addressed the gathering, sharing their thoughts on the historical importance and contemporary relevance of the Republic Day. They emphasized the values enshrined in our Constitution and their significance in shaping India's future through education and skill development.

The University took the opportunity to recognize outstanding contributions from the team of Facility Management. Certificates of appreciation were presented to Mr. Tarachand, Mr. Vishesh Kumar, Mr. Manoj Kumar and Mr. Tejaram for their exceptional dedication and service to the institution.

The celebration concluded with refreshments served to all attendees, fostering a sense of patriotic spirit and camaraderie among the University fraternity.

#### Inspire Inclusion: BSDU Celebrates International Women's Day 2024

BSDU marked International Women's Day with an inspiring celebration on 9 March 2024, bringing together all the female employees of the University in a meaningful gathering. The event was accorded dignity by the presence of distinguished Chief Guest Mrs. Sushila Marotiya, Secretary PWNR and Founder of

Ashray Care Homes, whose 17-year journey in social activism has transformed countless lives.



Mrs. Marotiya, renowned for her ground-breaking work with Ashray Care Homes, shared her remarkable experiences in supporting HIV-infected and affected orphaned children and HIV-positive widowed women. Her presentation highlighted the organization's success in establishing care facilities, building community partnerships and raising HIV awareness, embodying the year's theme - "Inspire Inclusion."

Registrar Dr. Sandeep Tomar, Deputy Registrar Dr. Shaikh Juned and the Officiating Dean, FES, Dr. Ritu Tak, delivered powerful messages emphasizing collective action for change. Their addresses underscored the importance of maintaining a global perspective while addressing persistent inequality challenges.

The celebration reinforced the commitment to creating an inclusive future where diversity thrives and women's voices are integral to decision-making processes. The event concluded with high tea, providing attendees an opportunity to continue discussions and build connections.



The observance of International Women's Day at BSDU served as a powerful reminder that gender equality requires continuous dedication and collaborative effort from all members of society.

## World Health Day

The **Faculty of Healthcare and Paramedic Skills Education** celebrated the 76th World Health Day on 6 April 2024 on the theme "My Health, My Right." The day



was celebrated in commemoration of the founding of the World Health Organization (WHO) in 1948.

Registrar Dr. Sandeep Tomar inaugurated the event with a ribbon cutting ceremony. The Registrar commended



the efforts of the Healthcare team for organizing the event. All the employees and students of BSDU attended this programme and benefited from it.

## Training on the EBSCO@ BSDU Library

An online training session was organized on 21 May 2024 by the Central Library for all students, faculty members and research scholars to apprise them about the available facilities and services in the BSDU Library. Mr. Lakhpat Singh Naruka, Training Manager, EBSCO Databases, conducted the training session on the EBSCO Engineering Collection Subscription. He demonstrated various features of the EBSCO dataset tools, illustrating how to access, login and download

targeted articles. He also explained the methods to perform advanced searches using specific keywords.

A total of 51 participants benefitted from the session,



including 24 trainers, 11 students, and various administrative staff. Their active participation and enthusiasm significantly contributed to the session's success. E-certificates were shared online with the participants.

### **BSDU celebrates 10th International Yoga Day with Wellness and Mindfulness**

In a vibrant celebration of health and harmony, BSDU marked the 10th International Yoga Day on June 21 2024. The early morning event in the University's courtyard at Polymechanic Block brought together students, faculty, and staff for a comprehensive wellness session.

The celebration commenced with a warm welcome from Registrar Dr. Sandeep Kumar Tomar, setting the tone for a morning of mindful practice. Under the expert guidance of Dr. Bhoop Singh, participants engaged in a series of traditional asanas, including Surya Namaskar, Padmasana, Vrikshasana,

Bhujangasana and Sukhasana. The session also featured essential Pranayama practices such as Bhastrika, Anulom Vilom, Kapal Bhati, Bhramari, and Udgeet.

Adding depth to the practice, Ms. Rashmi Choudhary, HR Head/Manager, led participants through additional asanas and Pranayama exercises, emphasizing yoga's holistic approach to well-being. A highlight of the morning was the Heartfulness Meditation Session conducted by Dr. Sandeep Kumar Tomar, which offered participants a peaceful moment of self-reflection and inner connection.

The celebration concluded with a healthy breakfast in the BSDU mess for all the participants.

The celebration of International Yoga Day not only promoted physical wellness but also reinforced BSDU's commitment to holistic development, bringing together the University community in a shared experience of mindfulness and well-being.

### **Students' Activities/Achievements**

#### **India Skills Regional Champions: Joinery and Cabinet Making Competition**



The **Faculty of Woodworking Skills Education (FWS)** demonstrated exceptional training capabilities by successfully organizing the India Skills Regional Level Competition in Joinery and Cabinet Making on 5-6 April 2024. The competition showcased outstanding student talent, with Sandeep Sharma from the 3rd semester and Mohit Bagra from the 5th semester emerging as winners

and securing selection for the prestigious India Skills National Level Competition in their respective trade.

- The Faculty of Automotive Skills Education** successfully conducted the state round of India Skills Competition 2024 on 5 April 2024. Mr. Vikash Sharma was the winner and selected for national level in car painting at Yashobhoomi Convention Center, Delhi.
- The Faculty of Manufacturing Skills Education** emerged as a beacon of technical prowess by successfully conducting the India Skills (Rajasthan) Competition 2023-24 in a resounding celebration of skill, innovation, and excellence. This prestigious event showcased the extraordinary talents of young technical professionals across four critical trades: CNC Milling, CNC Turning, M-CAD, and Manufacturing Team Challenge. The competition served as a vibrant platform that not only tested the participants' technical competencies but also highlighted the rigorous training and cutting-edge expertise cultivated by the Faculty. The outstanding performance of the participants, particularly the remarkable achievement of Vipul Maheshwari, who secured a silver medal at the national competition, underscores the Faculty's commitment to nurturing world-class skills and preparing the next generation of industry leaders in advanced manufacturing technologies. Details are as follows:

S. No	Skill	Task	Date	Workshop Manager	Jury
1	CNC Milling	Machine Familiarisation	5 April 2024	Mr. Madhusudan Singh	Mr. Rachit Tiwari Mr. Anirudh Singh Mr. Madhusudan Singh
		Competition	5 April 2024		
2	CNC Turning	Machine Familiarisation	5 April 2024	Mr. Sumit Bhukar	Mr. Sumit Bhukar Mr. Shankar Lal

		Competition (first group)	5 April 2024		Chaudhary Mr. Pranav Singhal
		Competition (second group)	6 April 2024		
		Competition (third group)	6 April 2024		
3	M-CAD	Software Familiarisation	5 April 2024	Mr. Hemant Sharma	Mr. Deepak Swami Mr. Munendra Koli Mr. Hemant Sharma
		Competition	5 April 2024		
4	Manufacturing Team Challenge	Machine Familiarisation	13 April 2024	Mr. Rachit Tiwari Mr. Madhusudan Singh Mr. Shankar Choudhary	Mr. Rachit Tiwari Mr. Madhusudan Singh Mr. Shankar Choudhary
		Competition	13 April 2024		

Results: FMS students qualified for India Skills (National) Competition 2023-24.

S. No.	Trade	Name	Rank
1	CNC Milling	Vipul Maheshwari	First
2	CNC Turning	Hemraj	First
3	M-CAD	Janesh Janagal	First

○ **Felicitation Programme by RSLDC:**

In a momentous celebration of youth potential and skill excellence, the Rajasthan Skill Development and Livelihoods Corporation (RSLDC) commemorated World Youth Skills Day by hosting a distinguished felicitation programme on 15 July 2024. The event, held at the Indira Gandhi Panchayati Raj & Gramin Vikas Sansthan on JLN Marg, Jaipur, honoured the national champions of the India Skills Competition 2023-24. Prof. Vivek Bhandari, President, BSDU and Prof. Binit Kumar Jha, Dean – FMS, were among the distinguished guests, who witnessed the recognition of outstanding talent, with special acknowledgment given to Mr. Vipul Maheshwari, an alumni of FMS, for his remarkable achievements in the national competition.

**Research & Development**

**Research Papers/Chapters/Books Published**

Author/s	Title of the Paper/Chapter /Book	Publisher/ Journal
Jayalaxmi, Rajesh Hanni, Mahipal Bukya, <b>Pancham Kumar</b>	Analysis and Modeling of 581 kWp Grid-Integrated Solar Photovoltaic Power Plant of Academic Institution Using Pvsyst	Engineering Proceedings, Vol. 59, pp. 142, 2024
Mahipal Bukya, Swati Sharma, Rajesh Kumar, Akhilesh Mathur, N. Gowtham, <b>Pancham Kumar</b>	Electric Vehicle Grid Demand: Potential Analysis Model And Regional Architectural Planning Approach For Charging Using Pvsyst Tool	Visions for Sustainability, Vol. 21, pp. 209-232, 2024
Divya Rishi Shrivastava, Shahbaz Ahmed Siddiqui, Kusum Verma, <b>Satyendra Singh</b> , Majed A. Alotaibi, Hasmat Malik, Mohammed E. Nassar	A Novel Synchronized Data-Driven Composite Scheme to Enhance Photovoltaic (PV) Integrated Power System Grid Stability	Energy reports Elsevier, Volume 11, 2024, Pages 895-907, ISSN 2352-4847.
Prahlad Mundotiya, H.P. Tiwari, <b>Satyendra Singh</b> (Corresponding author), Majed A. Alotaibi, Nand Kishor Gupta, Hasmat Malik, Fausto Pedro García Márquez	A Novel Hybrid Approach for Hydrothermal Scheduling Using Mathematical and Metaheuristic Search Methods	IEEE Access, vol. 12, pp. 22420-22432, 2024
Bhanu Pratap Singh, Sunil Kumar Goyal, Shahbaz Ahmed Siddiqui, Divya Rishi Shrivastava, <b>Satyendra Singh</b> , Majed A. Alotaibi, Hasmat Malik, and Fausto Pedro García Márquez	A Novel Approach for Real-Time Diagnosis of an Event in Grid Connected Microgrid with Different Distributed Energy Sources (DES)	International Journal of Mathematical, Engineering and Management Sciences, Volume 9, No. 3, 2024

Deepak Swami, Hemant Sharma, <b>Munendra Koli</b> , Rakesh Mahavar	Fault Diagnosis of Non-Execution of Linear Interpolation on CNC Turning Machine	International Journal of Advances in Engineering and Management (IJAEM)
Hemant Sharma, <b>Munendra Koli</b> , Rakesh Mahavar	Comparative Analysis of Toolpath Strategies in Mastercam (ISO) and Mazatrol for 5-Axis Vertical Milling Machines	International Journal of Advances in Engineering and Management (IJAEM)

**Session Conducted:**

**Empowering Academic Growth Through Fulbright Outreach Session: An initiative by Research and Innovation Department, BSDU**

Aligning with BSDU's commitment to expanding global learning opportunities and providing international educational experiences, the Research and Innovation Department, BSDU, conducted a session on 1 April 2024 by Dr. Sudarsan Dash, a representative from the Fulbright Commission in India.

He shared valuable insights about the prestigious Fulbright scholarship opportunities and various educational exchange programmes between India and the United States. His visit to BSDU provided faculty and students with first-hand information about the application process, eligibility criteria, and the transformative impact of Fulbright fellowships on academic careers serving as a platform to enhance awareness about international academic opportunities and foster cross-cultural educational exchanges.

**Human Resource Department**

**New Joining from January 2024 – July 2024**

The following individuals joined BSDU between January 2024 to July 2024:

S. No	Emp. ID	Name	Designation	Date of Joining
1	BSDU0332	Mr. Ashish Tatwal	Trainer-II, Faculty of Woodworking Skills Education	15 March 2024

2	BSDU0333	Dr. Diganta Munshi	Director, Workplace Training & Placement	09 April 2024
3	BSDU0334	Mr. Sudeep Saran Khanna	Provost	31 May 2024
4	BSDU0335	Mr. Nitin Bhatnagar	IT Manager	04 July 2024
5	BSDU0336	Mr. Bhudev Kumar Sharma	Office Manager	25 July 2024

4	Mr. Dinesh Kumar Choudhary, Senior Trainer-II	Faculty of Computing Skills Education	Incharge Faculty of Computing Skills Education with effect from 03 July 2024
5	Mr. Jeetram Choudhary	Administration	Services transferred to BSDU Hostel (Boys) and Mess with effect from 02 July 2024

Details of personnel **re-designated** between January 2024 and July 2024:

S. No	Name	Faculty/ Department	Re-designation
1	Mr. Jitendra Kumawat	Estate & Maintenance	Office Executive to Executive Estate
2	Ms. Soniya Sharma	Administration	Admission Counsellor to Office Assistant

Details of personnel **promoted** between January 2024 and July 2024:

S. No	Name	Faculty/ Department	Re-designation
1	Mr. Sunil Saini	Faculty of Computing Skills Education	Junior Trainer to Trainer-II
2	Mr. Dinesh Kumar Choudhary	Faculty of Computing Skills Education	Trainer-I to Senior Trainer-II
3	Mr. Bajrang Lal Choudhary	Administration	Administrative Executive to Administrative Officer

**Additional responsibilities** assigned between January 2024 and July 2024:

S. No.	Name	Faculty/ Department	Additional Responsibility
1	Mr. Jitendra Mathur, Chief Trainer	Faculty of Computing Skills Education	Oversee IT related matters in BSDU Main Campus with effect from 12 January 2024
2	Dr. Rakesh Choudhary, Assistant Professor	Faculty of General Education	Deputy Controller of Examination with effect from 15 March 2024
3	Mr. Chandra Kishore, Senior Estate Manager	Estate & Maintenance	Visiting Professor of Practice and Officiating Dean of B.Voc in Facility Management Course under Faculty of Construction Skills Education with effect from 07 May 2024

## Events/Celebrations

### Employee Wellness with Comprehensive Health Screening Initiative

As a proactive measure towards employee well-being, a health check-up programme was successfully conducted for all the employees in June-July 2024. The initiative, spearheaded by Team-HR, partnered with Eternal Hospital, Sanganer, to provide extensive medical screening for all staff members.

The meticulously planned programme featured a convenient two-tier approach to testing. Basic diagnostic procedures, including blood and urine sampling, were conducted on-campus, while specialized tests such as ECG, 2D Echo, and Chest X-Ray were performed at Eternal Hospital. To ensure minimal disruption to academic schedules, employees were organized into small groups of 10-13 members for hospital visits.



The comprehensive health screening encompassed 45 different medical tests, complemented by valuable consultations with physicians and dietitians. The thorough evaluation yielded positive results, with no major health concerns identified among the staff. The initiative received enthusiastic

appreciation from employees, who recognized it as a significant investment in their health and well-being.



### Training & Placement Cell

The Training & Placement Cell of the University organized internship drives for the selection of students in various companies during January 2024 to July 2024. A total of 199 students from the second, fourth and the sixth semesters were placed for internship in organizations relevant to their skill specializations.

In addition, 45 students were placed with organizations of domains of their interest.

### Articles

#### Revolutionizing Automotive Training with the Car Diagnostics Training System (CDTS)

**Mr. Avneet Choudhary, Junior Trainer, FAS**

The automotive industry is constantly evolving, demanding that technicians and engineers keep up with the latest advancements. To meet this need, a dedicated team has developed the Car Diagnostics Training System (CDTS), an innovative solution designed to enhance vehicle diagnostics training. This cutting-edge system, specifically designed for the Honda CR-V, allows for the creation of up to 20 simulated errors, providing a practical, hands-on learning experience that is essential for mastering automotive troubleshooting.

#### Why CDTS?

CDTS addresses the gap between theoretical knowledge and real-world application. Traditional training methods often fall short in preparing students for the

complexities of modern vehicle diagnostics. By introducing a system that can simulate a wide range of vehicle errors, CDTS ensures that trainees are well-prepared to diagnose and resolve issues accurately and efficiently.

#### Key Features:

1. **Simulated Error Scenarios:** CDTS can generate 20 different vehicle error codes for the Honda CR-V, allowing students to experience real-world diagnostic challenges in a controlled environment. These errors cover a comprehensive range of potential issues, from engine malfunctions to electrical system failures.
2. **Comprehensive Learning:** CDTS encompasses all aspects of car diagnostics, providing a thorough understanding of modern automotive systems. Trainees can delve into specific issues related to the Honda CR-V, gaining insights into this popular vehicle model's unique characteristics.
3. **Hands-On Experience:** Practical application is crucial in automotive training. CDTS offers students the opportunity to work on simulated issues, bridging the gap between classroom learning and real-world problem-solving. This hands-on approach ensures that students are not only theoretically knowledgeable but also practically skilled.
4. **Adaptability:** The system is designed to be versatile, catering to both beginners and advanced learners. This adaptability ensures that all users, regardless of their skill level, can benefit from the training. The CDTS can be tailored to individual learning paces, making it an ideal tool for diverse educational environments.

#### Impact on Training Programmes:

Implementing CDTS in our training programmes promises to elevate the quality of education. Students will gain confidence in their diagnostic abilities, making

them more competent and prepared for the challenges of the automotive industry. Additionally, the ability to simulate rare or complex issues provides a unique advantage, as trainees can experience and solve problems that they might not encounter frequently in real-world scenarios.

The specific focus on the Honda CR-V also allows students to gain expertise in diagnosing and troubleshooting one of the most popular vehicles in the market. This specialization not only enhances their skill set but also makes them more attractive to potential employers in the automotive industry.

### **Future Prospects:**

The development of CDTs marks a significant milestone in automotive education. As we continue to refine and enhance this system, we anticipate expanding its capabilities to include even more sophisticated diagnostics and integration with emerging automotive technologies such as electric and autonomous vehicles. Future updates may also incorporate additional vehicle models, broadening the scope of training and ensuring our students are prepared for a variety of diagnostic challenges.

### **Conclusion:**

In conclusion, the Car Diagnostics Training System (CDTS) represents a pivotal advancement in automotive training. By providing a realistic, hands-on learning environment, it ensures that our students are not only knowledgeable but also skilled in diagnosing and fixing modern vehicle issues. The focus on the Honda CR-V and the ability to simulate 20 different errors make CDTs an invaluable tool for aspiring automotive technicians. We are excited about the positive impact CDTs will have on our training programmes and look forward to seeing our students excel in their careers as a result.

This training system stands as a testament to the hard work and innovation of our students and mentors, reflecting our commitment to excellence in automotive education.

## **How Does Stress Affect Our Body?**

**Ms. Neha Masih, Senior Trainer, FHPS**

In our fast-paced world, it's no surprise that stress has woven itself into our daily lives. It's a natural reaction to the challenges we face; a little worry can actually help us tackle problems! Yet, with long work hours, busy commutes, and barely any time for ourselves, stress can feel like a heavyweight.

Many of us struggle to maintain a healthy lifestyle amid our packed schedules. Those long hours at work and lengthy travel times often leave little room for rest or self-care. This can lead to sleepless nights, skipped meals like breakfast, and hardly any time to enjoy a good workout or unwind. Unfortunately, it's easy to fall into the habit of grabbing junk food when there's no time to whip up nourishing meals.

But have we thought about how stress from these factors affects our bodies?

When we face stress, a part of our brain called the amygdala, which processes emotions like fear, detects the stress. It then sends signals to another part of the brain, called the hypothalamus, which triggers the release of stress hormones such as adrenaline and cortisol.

The hypothalamus communicates with the rest of the body through the autonomic nervous system (ANS). This system controls bodily functions we don't consciously think about, like heart rate, breathing, digestion, blood pressure, and even sweating.

The autonomic nervous system has two parts:

1. Sympathetic nervous system—that prepares the body for action.
2. Parasympathetic nervous system—that calms the body down.

When the amygdala detects stress, it quickly sends a signal to the hypothalamus, activating the sympathetic nervous system. This system then communicates with the adrenal glands, which release adrenaline (also known as epinephrine) into the bloodstream. As a result, your heart begins to race, pushing blood to vital organs and speeding up your pulse and blood pressure,

while your breathing quickens. Your body also taps into extra energy stored in sugar and fats, preparing you to respond swiftly.

These changes happen so rapidly that you might not even notice them! Your body is designed to react before you fully realize what's going on, which is why you might suddenly jump out of the way of danger without thinking. For instance, if you see something that could harm you, your body instinctively wants to run away with all the strength it can muster, even if you feel unwell, tired, or exhausted. So, where does this sudden surge of energy come from? It's all thanks to the hormone adrenaline!

Once the initial adrenaline rush subsides, the hypothalamus activates the second part of the stress response system, which involves the hypothalamus, the pituitary gland, and the adrenal glands. These work together using hormones to keep your body vigilant. If your brain continues to sense a threat, the hypothalamus releases corticotropin-releasing hormone (CRH), prompting the pituitary gland to release adrenocorticotropic hormone (ACTH). In turn, this signals the adrenal glands to release cortisol, keeping your body on alert. Cortisol helps manage stress, regulates blood sugar and pressure, and reduces inflammation, earning it the nickname "stress hormone."

When the danger or stress subsides, cortisol levels drop, and the parasympathetic nervous system takes over, calming your body and aiding relaxation. This incredible process enables us to react quickly during emergencies. However, if stress lingers over time, it can take a toll on our bodies in various negative ways. By understanding how stress impacts us, we can discover better ways to manage it effectively.

### Cyber Awareness and Digital Safety: Staying Safe in the Digital World

**Ms. Rikky Kumari, Trainer-II, FCS**

In today's digital age, protecting your personal information and staying safe online is more important than ever. With the rise of online threats, it's crucial to

be aware of potential risks and how to prevent them. Here's a simple guide to help you stay safe online.

#### 1. Protecting Your Personal Information on Social Media

**Problem:** Sharing too much personal information on social media can lead to identity theft and privacy breaches.

**Solution:**

- Share minimal personal details online.
- Adjust privacy settings to control who can see your posts.
- Avoid sharing sensitive information like your address or phone number publicly.

#### 2. Identifying and Avoiding Phishing Scams

**Problem:** Phishing scams trick you into giving away personal information through fake emails or websites.

**Solution:**

- Look for signs like misspelled domains and urgent requests for personal details.
- Avoid clicking on suspicious links or attachments.
- Report phishing attempts to authorities or the respective service provider.

#### 3. Importance of Antivirus Software and Firewalls

**Problem:** Viruses and hackers can access your data without proper protection.

**Solution:**

- Use antivirus software to detect and eliminate threats.
- Employ firewalls to block unauthorized access to your network.
- Keep software updated to ensure the latest protection.

#### 4. Understanding and Controlling Your Digital Footprint

**Problem:** Sharing too much online can expose you to privacy risks.

**Solution:**

- Be mindful of what you share and with whom.
- Use privacy settings to control access to your information.

- Regularly review app permissions and online services.

## 5. Recognizing and Responding to Cyberbullying

**Problem:** Cyberbullying can lead to emotional distress.

### Solution:

- Watch for repeated negative comments or threats.
- Block and report the bully.
- Seek support from trusted individuals or authorities.

## 6. Staying Safe on Public Wi-Fi

**Problem:** Public Wi-Fi can be insecure and expose your data to attackers.

### Solution:

- Use a VPN to encrypt your data.
- Avoid accessing sensitive information on public networks.

## 7. Cybersecurity Best Practices for Remote Workers

**Problem:** Working remotely can expose sensitive work data to cyber threats.

### Solution:

- Use VPNs for secure connections.
- Regularly update software and use secure communication tools.
- Be cautious with emails and documents related to work.

## 8. Balancing Screen Time and Mental Health

**Problem:** Excessive screen time can lead to burnout and mental health issues.

### Solution:

- Schedule regular breaks from screens.
- Engage in offline activities.
- Monitor screen time and set healthy boundaries.

## 9. Online Safety for Children: A Guide for Parents

**Problem:** Children are vulnerable to online risks.

### Solution:

- Educate them about the dangers of sharing personal information.
- **Use parental controls to monitor their online activity.**
- Encourage open communication about their online experiences.

## 10. General Cyber Safety Tips

1. **Enable Two-Factor Authentication:** Always turn on two-way verification (two-factor authentication) for all your apps. This protects you by asking for a second way to prove it's you, not just your password.
2. **Use Strong Passwords:** Pick Strong Passwords Make strong passwords that others can't guess. Don't use simple ones like "123456" or "password." A good strong password mixes letters, numbers, and special symbols.
3. **Protect Your UPI Number:** Watch Out for Phone Calls Keep your guard up against phone scams where tricksters pretend to be bank staff. Don't give out your UPI (Unified Payments Interface) number or any other private info over the phone. Real banks won't ask for these details.
4. **Double-Check Bank Info:** Don't trust phone numbers or contact details you find on random websites. To ask about your bank accounts always use the official numbers in your passbook or on the bank's real website.
5. **Verify E-commerce Deliveries:** Always check the delivery code on the e-commerce website before sharing it with the delivery person.

***What to do in case you fall victim to a cybercrime, you can consider the following steps:***

### Responding to Cybercrime: Steps to Take

1. **Stay Calm and Assess the Situation:** Don't panic. Carefully analyze what has happened to understand the extent of the damage.
2. **Gather Evidence:** Document all relevant details, such as emails, screenshots, and any other communication that might serve as proof of the cybercrime.
3. **Report the Incident:**
  - a) **Contact Authorities:** Immediately report the cybercrime to local law enforcement or cybercrime cells. In India, you can also file a complaint on the National Cyber Crime Reporting Portal ([cybercrime.gov.in](https://cybercrime.gov.in)).

- b) **Notify Affected Parties:** Inform banks, service providers, and any other parties that may be affected by the breach.
- 4. **Secure Your Accounts:**
  - a) **Change Passwords:** Update passwords for all affected accounts, ensuring they are strong and unique.
  - b) **Enable Two-Factor Authentication (2FA):** Add an extra layer of security to your accounts where possible.
- 5. **Scan for Malware (Run Antivirus Software):** Conduct a thorough scan of your devices to detect and remove any malware or viruses that may have been installed.
- 6. **Monitor Your Accounts:**
  - a) **Check Financial Statements:** Regularly review bank and credit card statements for any unauthorized transactions.
  - b) **Watch for Suspicious Activity:** Keep an eye on your email and social media accounts for signs of unusual activity.
- 7. **Seek Professional Help (Consult Experts):** If necessary, seek assistance from cybersecurity professionals to help secure your systems and prevent further breaches.
- 8. **Educate Yourself (Stay Informed):** Keep up to date with the latest cybersecurity practices and threats to better protect yourself in the future.

### Conclusion

The digital world offers immense opportunities, but with risks. Through awareness and adopting safe online practices, you will be able to keep yourself and your loved ones from cyber threats. Remember, awareness and vigilance are the keys to a secure digital life. Stay proactive and prioritize your online safety to enjoy the benefits of technology without compromise.

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