



**Ranked
#3**

NIRF Ranking : 2024
CATEGORY : SKILL
UNIVERSITY

BSDU newsletter

14th Issue

July-December, 2024

Editor's Desk

Dear Colleagues,

Welcome to the 14th issue of the BSDU Newsletter, capturing BSDU's achievements from July to December 2024. This edition provides an insightful look into our University's half yearly dynamic engagement with industry partners and our innovative approach to skill development thereby bridging Education and Industry.

This issue, highlights BSDU's strategic collaborations, including the Centre of Excellence with Shakti Hormann Pvt. Ltd., Corporate training programs with Shakti Hormann and Hilti Manufacturing India, Multidisciplinary skill development initiatives spanning curricular, co-curricular, and cultural activities under the Department of Student Affairs and the festive celebrations and campus events.

Our recent partnerships demonstrate our commitment to transforming education by creating specialized training programs that blend theoretical knowledge with practical expertise in addition to designing tailored learning experiences that meet specific industry needs in respective skill specializations.

The editorial team thanks the Management for its constant support and Guidance and specially thank all the Faculties and Departments for helping in capturing and presenting our institutional journey.



Dr. Sangeetha Noval
Offg. Dean, FGE



Mr. Sudeep Saran Khanna
Provost

Shaping Futures, Empowering India. through Skill Development

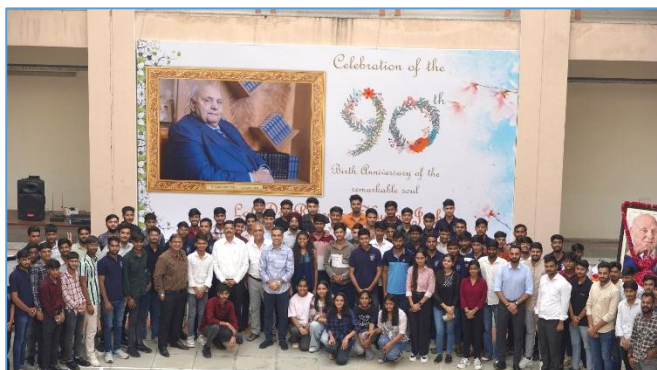
India is on the cusp of a transforming era—one where economic growth, global competitiveness, and national development are intrinsically linked to the quality of its human capital. With the world's youngest and most vibrant workforce, India holds immense potential. To harness this advantage, however, we must transform our demographic advantage into a skilled force of professionals, innovators, and entrepreneurs.

The Government of India's continued emphasis on Skill Development as a national priority is both timely and visionary. Initiatives like Skill India and Make in India underscore a strategic shift—from theoretical learning to hands-on expertise, from academic credentials to job readiness, and from job seeking to job creation. Yet, the demand for skilled professionals far outpaces the current availability of structured and effective skill training avenues.

If India is to emerge as a global manufacturing hub, not just more but better, the backbone of this transformation has to be a skilled and future-ready workforce. Industries can thrive only when they are powered by professionals equipped with precision, adaptability, and deep domain knowledge—qualities cultivated through robust vocational education.

At Bhartiya Skill Development University (BSDU), Jaipur, we are proud to be at the forefront of this movement. Committed to Skill Development leading to gainful employment and entrepreneurship, BSDU blends the rigour of the Swiss dual system with the needs of the Indian industry. Our model integrates industrial training with classroom learning, facilitated by state-of-the-art infrastructure, world-class equipment, and experienced mentors drawn from both academia and industry. Through partnerships with industry, integration of Swiss pedagogical principles, and a learner-centric approach, BSDU is setting new standards in vocational education. BSDU is proud to be a great contributor in nation building—by nurturing human capital that is competent, confident, and committed to excellence.

Celebration of 90th Birth Anniversary - A Tribute to the Founder Chairperson



The 90th birth anniversary of our esteemed founder, Dr. Rajendra Kumar Joshi, was celebrated on September 13, 2024, at 09:30 AM at the Bhartiya Skill Development University (BSDU) main campus. The event commenced with a warm welcome extended by Dr. Bhoop Singh, Librarian of the Central Library, to distinguished guests including RUJCT Trustee Mr. Jayant Joshi, Director of RUFIL Mr. Abhishek Joshi, BSDU President Prof. Vivek Bhandari, Registrar Dr. Shaikh Juned, Dean of the Faculty of Manufacturing Skills Prof. B.K. Jha, Dr. Diganta Munshi, Director of Workplace Training and Placement, as well as all deans, officiating deans, section heads, faculty members, administrative staff, and students.



Dr. Bhoop Singh highlighted Dr. Joshi as not only a visionary leader but also a compassionate individual whose profound contributions have left an enduring impact on the university and beyond. She emphasized his deep sense of purpose and his commitment to making a positive difference globally. Dr. Joshi's unwavering dedication to the mission of BSDU

continues to guide and inspire us. Dr. Singh also noted Dr. Joshi's exceptional qualities—his foresight, determination, compassion, humility, and philanthropic spirit.



As part of the program, attendees, including faculty and students, paid their respects by offering flowers in front of Dr. Joshi's photograph. Dr. Bhoop Singh then provided an in-depth overview of Dr. Rajendra Kumar Joshi's remarkable life journey, including his early education, graduation, Ph.D., and ground-breaking research. Notable achievements discussed included his development of Tecfidera, a significant advancement in the treatment of Multiple Sclerosis, and his contributions to the Fumaderm medicine for psoriasis. Dr. Singh also detailed Dr. Joshi's vision for implementing the Swiss dual education system in India, his establishment of Fumapharm AG in Switzerland, and his extensive social welfare initiatives. The establishment of Bhartiya Skill Development Campus, a pioneering skill development center in India, Bhartiya Skill Development University, Jaipur, Rajasthan, RUFIL, RS India, RUJ Wood Craft, and RUJ Skill School were also highlighted as major milestones in Dr. Joshi's legacy.

The celebration concluded with a refreshment for all participants.

Blood Donation Camp @ 90th Birth Anniversary of Dr. Rajendra Kumar Joshi

The Faculty of Health Care and Paramedic Skills, Bhartiya Skill Development University, Jaipur in association with Swasthya Kalyan Blood Bank, Jaipur

organised a Blood Donation Camp on 12 September 2024 in the honour of the visionary and philanthropist, late Dr. Rajendra Kumar Joshi. The event was held between 10:00 am- 02:00 pm in the Room no. 207, Faculty of Health Care and Paramedic Skills, Poly Mechanic Block, First campus.

The Blood Donation camp served as a fitting tribute to the 90th birth anniversary of the illustrious Dr Rajendra Kumar Joshi, a prominent figure in the medicine and social welfare domains.

Bhartiya Skill Development University achieved a remarkable milestone by collecting a record-breaking 55 units of blood from all groups of people. The aim of this camp was to unite in the spirit of selflessness and extend support to those in need of life-saving blood transfusions.



Prof. Vivek Bhandari, President, Bhartiya Skill Development University inaugurated the event as the chief guest. The blood collection team comprising 9 members from Swasthya Kalyan Blood Bank, Jaipur, including doctors, nurses and technicians conducted thorough medical examination of the blood donors who were eligible to volunteer and donate blood resulting in collection of 55 units of blood.

Prof. Vivek Bhandari said that the BSDU organized a blood donation camp in commemoration of the birth anniversary of Dr. Rajendra Kumar Joshi, the founder chairperson of Bhartiya Skill Development University, in which all the employees and students participated enthusiastically. He added that Dr. Joshi would always be remembered for his unprecedented contribution to

the medical field all over the world and skills education in India. Emphasizing the importance of blood donation, Prof. Bhandari said that blood donation is one of the best donations through which the needy people could be helped.

BSDU extends sincere thanks and gratitude to all team members, volunteers, medical team from Swasthya Kalyan Blood Bank, Jaipur and specially all donors who contributed towards the noble cause of Blood donation. The Blood Donation Camp at BSDU was open to all the faculties, staff, and students. The event adhered to all necessary health and safety protocols to ensure the well-being of donors and organisers.

Administrative Activities

MoU's signed

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

| S. No. | MoUs with | Purpose | Date of signing |
|--------|--|--|-----------------|
| 1 | International Automobile Center of Excellence (iACE) | To explore the opportunity of sitting up co-branded skilling center under the name of BSDU and iACE in Jaipur | 28.11.2024 |
| 2 | Shakti Hormann Pvt. Ltd. | To focus efforts on cooperation within area of Skill Based Training Education, Research and Development and Employment | 07.11.2024 |

Board of Management Meeting held

| S. No. | Date of BOM Meeting | Venue |
|--------|---------------------|--------------------|
| 1 | 04 December 2024 | First Campus, BSDU |

Academic Council Meeting held

| S. No. | Date of AC Meeting | Venue |
|--------|--------------------|--------------------|
| 1 | 15 July 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 Construction Skills Education | 9 July 2024 | Mr. Chandra Kishore |
| 2 | Faculty of General Education | 19 July 2024 | Dr. Sangeetha Noval |
| 3 | Faculty of Computing Skills Education | 12 Dec 2024 | Dr. Sumitra Singar |

BSDU Ranked 3rd in NIRF India Rankings 2024



With immense pride and a spirit of excellence, Bhartiya Skill Development University (BSDU) has achieved the 3rd position in the prestigious National Institutional Ranking Framework (NIRF) India Rankings 2024 under the 'Skill Universities' category by the Ministry of Education, Government of India.

This esteemed recognition is a culmination of BSDU's unwavering commitment to excellence in skill-based education, rooted in the Swiss Dual System, and its emphasis on hands-on learning, cutting-edge infrastructure, and strong industry integration.

As a pioneer in vocational education, BSDU has created a transformative ecosystem that bridges the gap between education and employability and continues to play a pivotal role in shaping India's skilled workforce equipped to lead in a dynamic global economy.



Department Of Student Affairs

Department of Student Affairs

Committed towards providing students of BSDU an environment that is supportive, respectful, engaging, safe and inclusive, a **Steering Sub- committee for Student Affairs** was constituted on 27 December 2023 under the **Quality First Project**. The objective of the committee was to develop an outline of systems, departments and strategies to supplement students' classroom/lab learning and to contribute significantly to their personal development so as to prepare them to confront challenges in their life.

Focussing on attaining its goals, the committee established the Department of Student Affairs (DSA) at BSDU to focus on creating a comprehensive framework to support student development and engagement. The goals of the DSA encompassed developing a clear mission and vision to foster a safe and equitable environment, create vibrant social and cultural programmes, take leadership development initiatives,

facilitate career planning awareness, establish a student council for transparent communication with university leadership, and encourage responsible community engagement.

The Department of Student Affairs offers a range of services, programmes, and resources designed to holistically enhance student life, promote personal growth, and create a supportive and dynamic campus environment aligning with the following vision and mission statements:

Vision:

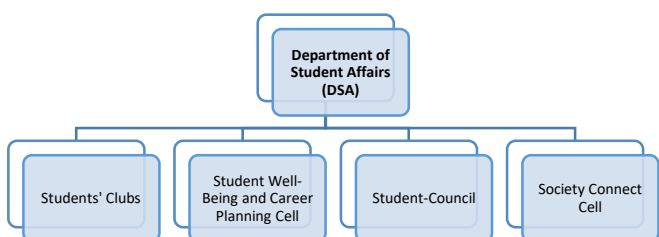
To cultivate a vibrant and inclusive campus community where every BSDU student feels valued, supported, and inspired to thrive academically, personally, and professionally.

Mission:

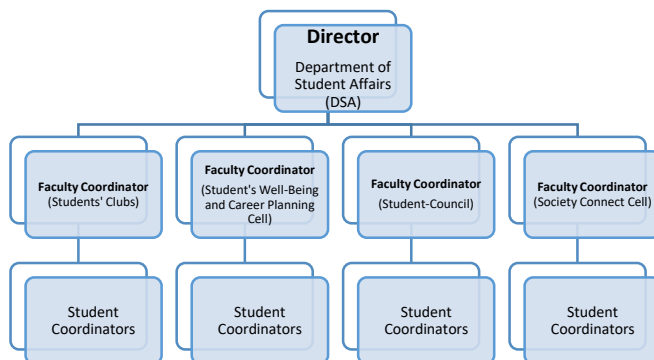
To empower and support students in achieving their full potential by providing comprehensive resources, services, and opportunities that foster personal growth, academic success, and community engagement.

Revolving around the core values such as Student-Centeredness, Excellence, Diversity and Inclusion, Integrity, Collaboration, Personal Growth, Well-being, Innovation, the DSA carries out the key responsibilities such as Student Support Services (S³), Student Engagement and Activities, Health and Wellness Initiatives, Incorporation & Diversity, Student Conduct and Discipline, Career Development and Planning, Housing and Residential Life, Student Advocacy and Support possible under the four important verticals viz:

Constituents of Department of Students Affairs



Organogram of Department of Student Affairs



The DSA comprises the following Faculty coordinators to carry out the tasks under each cell:

| S.No. | Name | Designation |
|-------|--|---|
| 1 | Dr. Sangeetha Noval Officiating Dean, FGE | Director, DSA |
| 2 | Dr. Rakesh Choudhary Associate Professor, FGE and Deputy COE | Coordinator (Student Council) |
| 3 | Dr. Satyendra Singh Assistant Professor FES | Coordinator (Society Connect Cell) |
| 4 | Ms. Neha Massih Senior Trainer - I Faculty of Healthcare and Paramedic Skills | Coordinator (Students' Club) |
| 5 | Mr. Munendra Koli Senior Trainer-II Faculty of Manufacturing Skills Education | Coordinator (Students' Club) |
| 6 | Mr. Kuldeep Singh Senior Trainer-II Faculty of Electrical Skills Education | Coordinator (Student's Well-Being and Career Planning Cell) |

The DSA, since its inception, held many activities ensuring student engagement and promoting student leadership. The following are the key activities and achievements of the DSA:

1. Orientation Day Programme - 27 July 2024

Under the guidance and mentorship of the DSA Faculty Coordinators, the student coordinators engaged themselves in the Orientation Day Programme held on 27 July 2024, for the newly admitted students. They not

only apprised the newcomers about the essence of holistic development through the various verticals of DSA but also engaged them in fun and frolic and critical thinking activities.

2. Event on Anti-Ragging Day - 12 August 2024



Dedicated to providing a safe and welcoming environment to help students learn, grow and thrive without fear of harassment or intimidation, the Department of Student Affairs, as directed by the UGC and the BSDU Management, organized an event on the occasion of the Anti-Ragging Day observed on 12 August 24. The event aimed to create awareness among students about the ill effects of ragging and promote a ragging-free campus.



The event emphasized the importance of maintaining a ragging-free campus. The students were made aware of the conduct and behaviour deemed as ragging, the probable punishments and about the university policies and procedures for reporting and addressing ragging incidents.

A thought-provoking short documentary on anti-ragging awareness was screened, showcasing the physical and emotional trauma faced by victims of ragging. Through

the documentary, students were made aware of the severity of ragging and its consequences.



The event encouraged students to speak out against ragging and report incidents. A sense of responsibility was instilled among senior students to mentor and support their juniors.

The Anti-Ragging Day event was a success in creating awareness and promoting a ragging-free campus, thereby maintaining a safe and supportive environment for all students.

3. Celebration of the 78th Independence Day -15 August 2024



The Bhartiya Skill Development University (BSDU) commemorated the 78th Independence Day on August 15, 2024 on the First Campus. The celebration commenced at 8:45 a.m. with the assembling of the BSDU employees, Swiss visiting faculty members and students. The welcome address was followed by hoisting of the National Flag by Dr. Diganta Munshi, Director, Workplace Training and Placement.

The collective singing of the National Anthem filled the surroundings with a sense of unity and national pride. In his address, he reflected on India's journey since

independence and also emphasized the crucial role of education in nation-building.



Prof. Vivek Bhandari, President, BSDU, through his message, conveyed his greetings on the occasion and also delightfully shared Hon'ble Chairperson's greetings and the congratulatory message on BSDU positioning third in the prestigious NIRF Rankings, 2024 of the Best Indian Universities. She commended the able leadership for the extraordinary achievement as a result of tireless dedication, hard work and commitment of the team members and relentless pursuit of performance excellence.

Ms. Silvia Rosery, the Swiss visiting faculty, Faculty of Healthcare and Paramedic Skills, expressed her delight on being part of the celebration and wished everyone a happy Independence Day. Adding a musical touch to the celebrations, Aditya Narayan, V semester student from the Faculty of Computing Skills, enthralled everyone with a patriotic song, further elevating the spirit of the event.

The programme was skilfully hosted by the students of V semester - Vishalu Mathad and Aditya Narayan, showcasing the university's commitment to student involvement. The flag hoisting ceremony concluded with a vote of thanks expressing gratitude to the

management, event organizers and all the participants. Refreshments and sweets were distributed thereafter.

3. Teachers' Day Celebration - 5 September 2024

In observance of Teachers' Day, celebrated annually on September 5th, a special occasion dedicated to recognizing the profound impact teachers have in shaping the future of youngsters, the student coordinators and members of the Department of Student Affairs on behalf of all the students of BSDU organized a memorable event in Room No 203, Polymechnic Block, First Campus.



The faculty fraternity of BSDU, including the Swiss experts gathered at the venue, were warmly greeted with chocolates, roses, and personalized thank-you notes, symbolizing students' gratitude.



The event commenced with a heartfelt welcome address by student anchors who expressed their deep appreciation for the unwavering support and guidance extended to them by teachers.

A cake-cutting ceremony followed, marking the joyous nature of the celebration. Refreshments added yet more to the fun and frolic of the event. The students from the

1st semester then captivated the audience with their lively dance performances.



In addition, the students involved the teachers in several engaging games designed to bring fun and laughter to the teachers. As the event drew to a close, a formal vote of thanks was delivered, expressing sincere appreciation towards the contributions of the organizing team in making the day special. The celebration was a resounding success, reflecting the collective admiration and respect students hold for their teachers.

4. BSDU Student Council Election-2024



The Department of Student Affairs (DSA) at BSDU successfully conducted a landmark event i.e. elections to form the University's inaugural Student Council. This

initiative was realized under the guidance and support of the University President, whose mentorship and commitment to student affairs played a crucial role. This election marks a significant milestone for BSDU, as it establishes the first formal student representative body.



The Student Council is expected to play a vital role in bridging communication between the student body and the university administration, as well as organizing and overseeing student activities and initiatives.

It's noteworthy that the elected council members represent different faculties and academic years, ensuring a diverse perspective in student leadership. This diversity is likely to contribute to a more comprehensive understanding and addressing of student needs across various disciplines.



The successful formation of BSDU's first Student Council represents a positive step towards enhancing student participation in university governance and affairs. It reflects the university's commitment to fostering leadership skills and providing students with a platform to voice their concerns and ideas. The election process was well-structured and involved various committees to ensure a smooth and fair voting procedure.



The following students were elected as the members of the student Council.



The newly elected Student Council at Bhartiya Skill Development University (from right to left)

| S. No. | Position in Student Council | Name of the Student | Faculty | Semester |
|--------|-----------------------------|----------------------|-----------|----------|
| 1 | President | Dheeraj Kumar Jangid | FMS | V |
| 2 | Vice-President | Shivraj Singh | FCS | III |
| 3 | Secretary | Divyanshi Sharma | FES (RET) | III |
| 4 | Joint Secretary | Praveen Sharma | FRAC | III |

The establishment of the Department of Student Affairs and the successful formation of BSDU's first Student Council demonstrate the university's commitment to student empowerment and holistic development.

UDAAN-Sports & Cultural Fest -2024

(6 – 8 November, 2024)



Introduction

The UDAAN 2024 fest, conducted from November 6 to November 8, 2024, at Bhartiya Skill Development University, marked a significant milestone in the university's calendar of events. Organized by the Department of Student Affairs (DSA), this three-day celebration brought together over 250 students and faculty members in a vibrant display of sporting excellence and cultural talent. The fest embodied the University's commitment to fostering holistic student development beyond academic pursuits.

Following a carefully structured schedule, the fest allocated morning sessions to sports activities and afternoon sessions to cultural events. The comprehensive program included both indoor and outdoor sports competitions, alongside cultural performances that showcased the diverse talents the students of BSDU. All activities were successfully conducted on the First campus, creating an atmosphere of excitement, vibrancy and unity.

Day-wise Report

Day 1 - Wednesday, November 6, 2024

The inaugural ceremony commenced at 9:15 AM on the lawns opposite the Admin Block, marking the official beginning of UDAAN 2024. Dr. Sangeetha Noval, Director of the Department of Student Affairs, in her opening address welcomed the gathering and highlighted the importance of extra-curricular activities such as sports and cultural activities in students' holistic development.



The traditional lamp-lighting ceremony, a symbolic gesture of knowledge and enlightenment was performed by President Prof. Vivek Bhandari, along with the representative's members of the Student body- Department of Student Affairs(DSA).



The student coordinators of the DSA viz. Aditya Narayan, Vishalu Mathad, Lakshita Jangid, and Ranjit Singh and the members of the Student Council (a cell of the DSA)- Dheeraj kumar Jangid-President, Shivraj Singh- Vice President, Divyanshi Sharma-Secretary, and Praveen Sharma-Joint Secretary.

The ceremony's solemnity was beautifully complemented by a classical Bharatanatyam dance performance by Ms. Vishalu Mathad followed by an energetic vocal performance by Aditya Narayan that set an enthusiastic tone for the fest ahead.



The sports events began at 10:30 AM with a friendly inaugural badminton match that brought together the staff members and students of BSDU.



The match featured teams comprising Dr. Shaikh Juned (Registrar) and Ms. Shilpi Rekha, student of FCS, V semester against Ms. Tripti Sharma-Girls' Hostel Warden and a student of FMS, III semester Janesh Janagal. This was followed by concurrent competitions

in Volleyball, Kabaddi, Badminton and Table Tennis across various venues on the campus.



The afternoon transformed into a celebration with the Fresher's Party, a special addition to UDAAN 2024. From 2:30 PM to 4:30 PM, new students were welcomed into the BSDU community through engaging ice-breaking activities, talent showcases, and friendly competitions.



The highlight of the event was the selection of Ms. Tannu and Mr. Sukhdeep Singh as Ms. and Mr. Fresher by an esteemed jury comprising Ms. Rashmi Choudhary, Mr. Jitendra Singh, and Ms. Anjana Gaur. The day concluded with an energetic DJ night and a communal dinner that fostered camaraderie among students.

Day 2 - Thursday, November 7, 2024

The second day was marked by intense sporting competitions from 9:00 AM to 12:30 PM. The sports

events were organized into four major tournaments - Volleyball, Kabaddi, Badminton, and Table Tennis - with teams named Panthers, Cheetahs, Jaguars, Cougars, and Tigers competing with remarkable spirit.



The afternoon session from 2:00 PM to 4:30 PM was dedicated to cultural competitions featuring solo and group performances in singing and dance.

The performances were evaluated by a distinguished panel comprising Ms. Rashmi Choudhary, Dr. Shaikh Juned, and Mr. Jitendra Singh. The performances captivated the audience and showcased the remarkable artistic talents within the BSDU community.



Day 3 - Friday, November 8, 2024

The final day began with the culmination of sports tournaments from 9:30 AM to 12:30 PM. The matches reached their exciting conclusions with:

- The Jaguars emerging victorious in volleyball against the Panthers
- The Panthers triumphing in kabaddi over the Cheetahs
- The Tigers dominating both singles and doubles categories in badminton
- The Cheetahs securing championships in table tennis



The valedictory function, held from 2:00 PM to 3:30 PM, celebrated the achievements of all participants. The ceremony featured encore performances by cultural competition winners, followed by the eagerly anticipated prize distribution. The **Lions** team was awarded the Overall Champions trophy by President Prof. Vivek Bhandari, who praised the participants' sporting spirit and artistic excellence.

Dr. Sangeetha Noval, Director of DSA, delivered a heartfelt vote of thanks, acknowledging the collective effort that made UDAAN 2024 possible. The fest concluded with the singing of the National Anthem,

marking the end of three days of celebration that successfully promoted leadership, creativity, and community spirit within BSDU.



The success of UDAAN 2024 stands as a testament to the university's commitment to providing platforms for student growth and development beyond academic excellence. The event not only showcased talents but also fostered valuable life skills, teamwork, and lasting friendships among the BSDU community.

6. A session on "All About Personality"

The Student Well-being and Career Planning Cell, under the aegis of the Department of Student Affairs (DSA) successfully conducted an enriching session on "All About Personality", on November 23, 2024. The session was expertly delivered by Dr. Shaikh Juned Saoud, Registrar, BSDU at Room 203, Polymechanic Block, First Campus BSDU from 9.00 a.m. to 10.40 a.m.

The session specifically designed for B.Voc. V-semester students, was organized as part of the Cell's ongoing commitment to enhancing students' personal and professional development.

Dr. Shaikh Juned's expertise brought valuable insights into various dimensions of personality development, including Professional communication skills, Leadership attributes, Personal branding, Emotional intelligence, Workplace etiquette, Confidence building and Stress management techniques.

He informed students about the importance of fixing a target, being with people infused with positive attitude

and also shared tips to develop emotional intelligence. Through a group discussion, students learnt the significance of communication skills and being decisive in a professional world.



The knowledge and insights shared during the session on various aspects of personality development and its impact on professional success would serve as valuable tools for students prepared to transition from academic life to professional careers.

7. Constitution Day Celebration



Commemorating the Constitution Day, celebrated annually on 26th November 2024, a meaningful event on was held for the students of the University under the aegis of the Department of Student Affairs in the room

No. 302, Polymechnic block from 9.00 a.m. to 10.00 a.m.

The celebration of the Constitution Day fulfilled the singular purpose of promoting constitutional literacy and civic awareness among the students. The profound principles that form the backbone of India's national constitutional framework were explained through a presentation by Dr. Sangeetha Noval, Director of the Department of Student Affairs, thereby enlightening the core values of sovereignty, socialism, secularism, democracy, and the fundamental commitments to justice, liberty, equality, and fraternity.

Following the presentation, a thoughtfully curated documentary was screened, tracing the evolutionary journey of the Indian Constitution. The visual narrative transported students through the historical landscape of India's constitutional development, highlighting the pivotal moments and key contributors who shaped this monumental document. Students were visibly engaged, demonstrating keen interest in understanding the deeper nuances of India's constitutional heritage.

The celebration succeeded in creating an enriching educational experience that went beyond mere commemoration. It served as a platform for students to connect with the foundational principles that govern our democratic republic, fostering a sense of civic responsibility and national pride.

8. A special session on Employability Skills

Committed towards holistically developing the students and equipping them with employability skills for successful career, the Student Wellbeing and Career Planning Cell, operating under the Department of Student Affairs, BSDU organized a session on Employability Skills. Specifically designed to address the critical need for professional skill development among students preparing to enter the job market, the session was held on Friday, 29 November 2024, from 9:00 AM to 10:30 AM for the V semester students in Room 203 of the Polymechnic Block.

DSA Presents

Special Session

on

EMPLOYABILITY SKILLS

29 November 2024
@ 09:00 AM onwards

Audience
B.Voc. 5th Sem

Speaker
Mr. Dalbir Singh
Associate Director, Workplace Training & Placement Dept.

Room No. 203, Polymechnic Block, First Campus, BSDU

BHARTIYA SKILL DEVELOPMENT UNIVERSITY JAIPUR

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Mr. Dalbir Singh, Associate Director, Department of Workplace Training and Placement delivered a comprehensive presentation focusing on key employability skills, workplace expectations, and career preparation strategies. The deliberation covered essential topics including professional communication, Team work Skills, Self- Motivation, Problem Solving Skills, Dedication and Work Ethics, Planning and Organization Skills, Interpersonal Skills, and Technical skills. He also highlighted the industry expectations, and the need for bridging the gap between academic learning and professional requirements. The Students were engaged in interactive discussions and received practical insights into developing the skills necessary for successful career progression.

The event fulfilled its primary objectives of enhancing students' understanding of employability skills and building their confidence for professional career preparation.

9. Bhartiya Bhasha Diwas Celebration

Commemorating Shri Subramania Bharathi's Birth Anniversary, celebrated as Bhartiya Bhasha Diwas, every year on 11 December, Bhartiya Skill Development University, Jaipur celebrated the same on 11 December 2024 to honour the multifaceted personality, also known as "Mahakavi Bharathi". He was a legendary Tamil poet, writer, journalist, and prominent freedom fighter.



This event held under the aegis of **Department of Student Affairs** was a tribute to the exceptional contributions of this iconic intellectual to Indian literature, language, and the independence movement. It highlighted the crucial role played by him in the Indian independence struggle and Tamil literature. In addition to being an extraordinary poet; he was a social reformer, journalist, and a passionate advocate for national liberation.

The Bhartiya Bhasha Diwas celebration included a presentation highlighting his multifaceted prominence followed by a multilingual cultural programme. Students from various Faculties showcased their talent by singing songs in various Indian Languages reaffirming the power of language in cultural preservation and social transformation.

The Bhartiya Bhasha Diwas celebration was a profound reminder of Mahakavi Bharathi's enduring legacy. It successfully bridged historical remembrance with contemporary relevance, inspiring students to appreciate the depth of linguistic and cultural heritage.

10. Health Awareness Programme on Cardiac Arrest



in association with
FACULTY OF HEALTHCARE & PARAMEDIC SKILLS EDUCATION

20 DEC, 2024 | 12:30 PM | BSDU NEW CAMPUS

Under the aegis of the Department of Student Affairs(DSA), the Society Connect Cell successfully organized a **Health Awareness Programme on Cardiac Arrest** on 20th December 2024 for the workers engaged in the construction work of the BSDU New Campus.

The impactful initiative aimed at raising awareness about cardiac arrest and promoting essential health and Wellness practices. The programme was made successful through the enthusiastic efforts of the students of the Faculty of Healthcare and Paramedic Skills Education, who volunteered their time and expertise to create meaningful change through promoting health awareness.

The program aimed to raise awareness about cardiac arrest among construction workers and to demonstrate essential first-aid techniques, particularly CPR (Cardiopulmonary Resuscitation). Approximately 70 construction workers actively participated in this program, showing keen interest in understanding the

critical nature of cardiac emergencies and learning how to respond effectively.

The students- Ms. Kajal, Ms. Kajal Kumari, Mr. Pankaj Kumar, and Ms. Simran Jot Kaur under the supervision of Ms. Neha Masih engaged with the workers using interactive demonstrations and simplified explanations, ensuring that the participants could comprehend and retain the vital life-saving techniques.



The session covered the causes and symptoms of cardiac arrest, importance of early intervention to save lives, demonstration of CPR and an interactive Q&A session addressing the queries and doubts raised by participants on maintaining heart health.

The programme successfully achieved its objective of equipping construction workers with essential first-aid knowledge, potentially empowering them to save lives during emergencies. The enthusiasm of the participants and the dedication of the healthcare students made the event impactful and engaging.

The initiative showcased Society Connect Cell, DSA, BSDU's commitment to community welfare and skill development, reflecting its dedication to fostering societal well-being alongside professional education.

11. Bharat Solar Expo Run for Green Energy

Under the auspices of the Society Connect Cell, Department of Student Affairs, 30 students from BSDU, Jaipur participated in the **Bharat Solar Expo Run for Green Energy**, a 6-kilometer half-marathon organized by the Rajasthan Solar Association. The Bharat Solar

Expo 2025 was organized on Sunday, 22nd December 2024 from 7:00 AM to 8:00 AM. starting from Albert Hall Museum and ending at Jawahar Circle, Jaipur. BSDU played a significant role as an institutional partner in the marathon contributing to the success of this initiative.

This initiative aimed to raise awareness about renewable energy and sustainability, encouraging communities to unite for a greener and more sustainable future. Along with the students, the faculty members -Dr. Satyendra Singh, Dr. Sangeeta Noval, Mr. Kuldeep Singh, and Ms. Priyanka Rathore actively participated in this impactful event.



The marathon was inaugurated by **Honorable Shri Heeralal Nagar, Minister of State, Energy Department, Government of Rajasthan**, adding inspiration and significance to the event. Participants began the run from the historic **Albert Hall Museum** and completed the course at **Jawahar Circle**, showcasing their commitment to promoting green energy. As a token of appreciation for their involvement and enthusiasm, all students and participants were awarded certificates and goodies.



The event provided a platform for individuals and institutions to unite for a common cause, emphasizing

the importance of renewable energy solutions for a sustainable future. BSDU's participation demonstrated the university's commitment to societal and environmental causes, fostering a sense of responsibility among students and staff.

The Bharat Solar Expo Run for Green Energy was not just a physical activity but a movement towards a cleaner and greener tomorrow, leaving a lasting impression on all who participated.

Co-Curricular Activities

• Celebration of Space Day @ FCSE

Aimed at fostering creativity and innovation, providing practical experience in physics, engineering, and teamwork, promoting interest in space exploration and STEM (Science, Technology, Engineering, and Mathematics) fields among the IT students, the Space Day was celebrated on 23rd August, 2024 by the **FCSE**. The students of the I, III, V semesters participated in a



thrilling and educational Space Day activity, where they designed, built, and launched water-based rockets reaching above 50 meters.

Using the material such as plastic bottles, fins, nose cones, and launchers, the teams worked enthusiastically, applying principles of aerodynamics and physics to create rockets that were not only stable in flight but also capable of reaching significant heights. The rockets were powered by water and air pressure, making it a safe and eco-friendly project.

After thorough preparation and final adjustments, the teams took turns launching their rockets. The

atmosphere was charged with excitement as each rocket soared into the sky. Impressively, several of the rockets successfully achieved the target height of over 50 meters, with some even surpassing expectations. The students cheered as their hard work and teamwork paid off.

• Cake Mixing Ceremony

On 19 November 2024, the **Faculty of Hospitality and Tourism Skills** hosted a delightful Cake Mixing Ceremony, bringing together President, Registrar, Swiss Visiting Faculty, staff, and faculty members from all Faculties & Departments believing that the more participants involved in mixing the ingredients for the Christmas plum cake. This celebration aimed not only to honour the tradition but also enrich students with practical exposure to seasonal customs in hospitality industry.



• Christmas Celebration

On 24 December 2024, BSDU campus resonated with festive joy as the **Faculty of Hospitality and Tourism Skills** orchestrated a heartwarming Christmas celebration. Students, brimming with festive spirit, donned Santa Claus costumes embarked on a mission to spread cheer throughout the university. The students gifted beautifully decorated Christmas hampers distributed home baked macerated cake, along with homemade chocolates and cookies to the entire staff.

The thoughtful gesture served as a token of appreciation for their hard work and dedication throughout the year. The distribution brought smiles and a sense of camaraderie, fostering a warm and festive atmosphere across all departments.

The event underscored the Faculty of Hospitality and Tourism Skills' commitment to instilling not only professional skills but also values of community and celebration. The act of students dressing as Santa Claus added a touch of whimsy and delight, perfectly capturing the essence of the Christmas season.

• **Webinar: Quantum Computing**

The **Faculty of Computing Skills** hosted an insightful webinar on Quantum Computing on 24 October 2024, featuring Dr. Anjani Priyadarsini, a leading expert in the field from AWS India.

The hour-long session drew active participation from the entire Faculty of Computing Skills student body, focusing on quantum computing fundamentals and career opportunities. Dr. Priyadarsini expertly navigated through key concepts including qubits, superposition, and entanglement, while drawing clear distinctions between classical and quantum computing approaches.



The presentation highlighted the transformative potential of quantum computing's in cryptography, material science, and drug discovery. Dr. Priyadarsini provided practical guidance for students interested in pursuing career in quantum computing, emphasizing the importance of strong foundations in quantum mechanics, linear algebra, and computer science.

Students gained valuable insights into core quantum computing principles, industry applications and career

pathways, essential skills and learning resources and practical steps to enter the field of quantum computing.

• **Centre of Excellence by Shakti Hormann Pvt. Ltd. at BSDU**



As part of BSDU's collaboration with Shakti Hormann Pvt. Ltd., a dedicated Centre of Excellence was established on campus to support corporate initiatives for the employees of SHPL. The inauguration of the Centre of Excellence was held on 23 November 2024.

• **Upskilling Trainings**

I. As an initiative towards enriching the educational offerings with practical insights and contemporary perspectives in renewable energy technologies, Dr. Pancham Kumar, **Faculty of Electrical Skills** attended a residential training on "Decentralized Renewable Energy (DRE): Solarizing India's Agriculture" organized by Center for Science & Environment, New Delhi at AAETI, Nimli, Rajasthan. The training was held from 25 – 27 September, 2024.

He also attended a residential 3-day training from 19- 21 June, 2024 organized by the School of Sustainable Energy, Center for Science & Environment, New Delhi at AAETI, Nimli, Rajasthan.

II. As a part of upskilling the trainers internally at BSDU, under the Train the Trainers Programme, Mr. Yatendra Singh Hada (Senior Trainer –II) imparted training on PLC SCADA for 9 days from 27 June to 6 July 2024 for the Faculty of Manufacturing Skills Education.

III. Refinish Painting Training at Axalta Training Center, Manesar Mr. Ubed Ul. Haque and Mr. Aman Sharma



trainers, of the **Faculty of Automotive Skills** completed the training in Refinish Painting at Axalta Training Center, Manesar, Haryana from 23-27 July 2024.



The training provided the trainers with advanced knowledge and techniques in automotive refinish painting, enhancing their expertise in the specialized field which enabled them to bring cutting-edge practices to their teaching roles, benefiting students in the automotive skills program.

• **Corporate Trainings**

- I. As an initiative towards upskilling the employees of reputed organizations, the **Faculty of Electrical Skills** conducted the training of 15 employees of Shakti Hormann Pvt. Ltd. from 9- 18 December 2024. The training focused on Electrical Skills and was coordinated and delivered by Mr. Yatendra Singh Hada (Senior Trainer-II) & Mr. Kuldeep Singh (Senior Trainer-II) of FES.
- II. As a part of corporate training extended to upskill the trainees of reputed industries, the **Faculty of Manufacturing Skills Education (FMS)** at BSDU, in partnership with Shakti Hormann Pvt. Ltd. (SHPL), successfully conducted a comprehensive training

program from 2-18 December 2024, in the field of "Installation and Servicing of Industrial Doors."

This training was supported by the Faculty of Electrical Skills, Faculty of General Education, and Faculty of Healthcare, highlighting BSDU's multidisciplinary expertise. The valedictory ceremony for first batch was held on 18 Dec 2024.

- III. Committed to fostering strong industry partnerships and delivering impactful corporate training programs that address specific organizational needs, the **Faculty of Manufacturing Skills Education (FMS)** at BSDU, in partnership with Hilti Manufacturing India Pvt. Ltd. successfully conducted a comprehensive corporate training program from 4-31 December 2024, in the field of "Inspection and Quality Control (IQC)". This training program was conducted in collaboration with the Faculty of General Education, demonstrating BSDU's multidisciplinary approach to skill development. The training lasted 22 effective days, offering both theoretical and practical sessions tailored to industry requirements. The modules focussed on Quality Management, Workplace Safety, GD&T (Geometric Dimensioning and Tolerancing, Lean Manufacturing, Engineering Drawing, Coordinate Measuring Machine (CMM), Soft Skills, and Measuring.



The trainees highly benefitted with the hands-on approach of training provided to them laying a strong foundation in quality inspection and control, equipping them with both technical knowledge and soft skills essential for the manufacturing industry.

Research & Development

Research Papers/Chapters/Book Published

| Author/s | Title of the Paper/Chapter/Book | Publisher/ Journal |
|--|--|---|
| Niyatee Smart, Ritu Tak, Satyendra Singh | Power Blackout in India: Securing Grid from Cyber Threats | Advances in Intelligent Systems and Computing, vol 1460. Springer, Singapore. |
| Divya Rishi Shrivastava, Shahbaz Ahmed Siddiqui, Kusum Verma, Satyendra Singh , Hasmat Malik, Shahrin Md Ayob, Nik Rumzi Nik Idris, Awang Jusoh | Leveraging Synchronized Measurements for Novel Wide-Area Event Detector | Advances in Intelligent Systems and Computing, vol 1460. Springer, Singapore. |
| Amit Parmar, Pramod Kumar, Rakesh Choudhary , Seema Garg, Ajay Jain | Unsteady Inclined MHD Powell-Eyring Fluid with Microorganisms Over an Inclined Permeable Stretching Sheet with Zero Mass Flux and Slip Condition | International Journal of Applied and Computational Mathematics, Springer (Scopus) |

Ph.Ds. Awarded:

| Registration No. | Name of the Candidate | Title of the Thesis |
|------------------|-----------------------|---|
| 191350S002 | Ms. Florence Joseph | Impact Of Guest Satisfaction Towards Front Office Services On Hotel Branding: A Study Of Hotels In Jaipur |

| | | |
|------------|--------------------------|--|
| 190650S002 | Vikas Kumar | Securing The Mqtt Protocol For Iot Communication |
| 191150S001 | Mr. Devendra Kumar Bhatt | Vocational Skill Building For Employment Generation- Rajasthan Prospects |

Human Resource Department

New Joining from July 2024 – December 2024

| S No | Name | Designation | Date of Joining |
|------|-------------------------|--|-----------------|
| 1 | Mr Bhudev Kumar Sharma | Office Manager | 26.07.2024 |
| 2 | Dr Sunil Kumar Kumawat | Assistant Professor, General Education | 22.08.2024 |
| 3 | Mr Bhupendra Kumar Sain | Driver | 02.09.2024 |
| 4 | Mr Manoj Sharma | Hostel Warden (Boys Hostel) | 03.10.2024 |
| 5 | Mr Aishwarya Kamthan | Senior Trainer – I, Construction Skills (Facility Management) | 05.11.2024 |
| 6 | Mr Dalbir Singh | Associate Director, WTP | 12.11.2024 |
| 7 | Mr Sandeep Kumar Thakur | Chief Trainer & Associate Dean, FHTSE | 12.11.2024 |
| 8 | Mr Gajendra Singh Rawat | Senior Trainer – II, Construction Skills (Facility Management) | 14.12.2024 |
| 9 | Mr Saurabh Shukla | Head - Admissions & Marketing | 16.12.2024 |

Re-Designations from July 2024 – December 2024

| S. No | Name | Faculty/ Department | Re-designation |
|-------|------------------|---|---------------------------------------|
| 1 | Mr Shankar Singh | Workplace Training & Placement Department | Office Executive to Assistant Manager |

Promoted from July 2024 – December 2024

| S. No | Name | Faculty/ Department | Promotion |
|-------|-----------------------|--|--|
| 1 | Dr Sunil Anand | Faculty of Automotive Skills Education | Associate Professor to Professor |
| 2 | Dr Rakesh Choudhary | Faculty of General Education | Assistant Professor to Associate Professor |
| 3 | Dr Shaikh Juned Saoud | VC Secretariat | Deputy Registrar to Registrar |

Additional Responsibilities

| S. No | Name | Faculty/ Department | Additional Responsibility |
|-------|-------------------------|--|--|
| 1 | Mr Kumar Shanu Sharma | Faculty of Woodworking Skills Education | Incharge Faculty of Woodworking Skills with effect from 02.08.2024 |
| 2 | Dr Satyendra Singh | Faculty of Electrical Skills Education | Incharge Faculty of Electrical Skills with effect from 02.09.2024 |
| 3 | Dr Sunil Anand | Faculty of Automotive Skills Education | Proctor with effect from 09.10.2024 |
| 4 | Mr Sandeep Kumar Thakur | Faculty of Hospitality & Tourism Skills Education | Associate Dean Faculty of Hospitality & Tourism Skills with effect from 12.11.2024 |
| 5 | Ms Neha Masih | Faculty of Healthcare & Paramedic Skills Education | Incharge Faculty of Healthcare & Paramedic Skills Education with effect from 22.11.2024 |
| 6 | Dr Rakesh Choudhary | Faculty of General Education | Incharge for uploading event details on Social Media Handles of BSDU with effect from 06.12.2024 |

Celebrations & Events

• **Hariyali Teej Celebration**

A get-together on the occasion of Hariyali Teej was organized on 07 August 2024 at BSDU Girls Hostel. All the female employees came together to embrace

the festive spirit by dressing in traditional attire, creating a lively atmosphere.



The event featured traditional music, dance, and delicious festive treats, which added the joy of the celebration. Fun activities and games like mehandi application, ring toss and passing the pillow further added to the fun and frolic in the event. This celebration not only highlighted the cultural significance of Teej but also strengthened the bond among employees, making it a memorable day filled with joy and togetherness.

• **Diwali Celebration: Illuminating Moments of Joy and Unity**



Diwali, one of the major festivals of India was celebrated on 26th October 2024 with immense joy and enthusiasm. All the employees actively participated in decorating the premises of the Administrative block designated for the celebration with vibrant embellishments including beautiful diyas, sparkling lights, and colourful rangoli designs.

The festive spirit was further enlivened by the management with the distribution of Diwali gifts and sweets, symbolizing unity and togetherness. All the BSDU members captured these cherished moments through pictures, creating memories to treasure forever. The warm glow of diyas and the cheerful camaraderie perfectly reflected the essence of Diwali, spreading light, happiness, and positivity all around.

• **BSDU Picnic: A Day of Fun and Bonding**

On 09 November 2024, BSDU employees embarked on a memorable day of recreation and team building at the Kanota Camp Resort in Jaipur. The picnic offered a perfect opportunity for colleagues to unwind and connect outside the traditional office environment.



The event kicked off with morning refreshments, setting an energetic tone for the day ahead. Employees quickly embraced the diverse range of activities such as outdoor games, Electric rides provided thrilling entertainment, Swimming pools and water slides offered refreshing fun and the rain dance area kept the excitement high

A well-timed lunch break from 1:30 PM to 2:30 PM allowed everyone to savour Dal Bati Choorma-: the

traditional Rajasthan cuisine. The afternoon continued with Engaging music sessions, Indoor games for those seeking a more relaxed pace and ample time for socializing and team bonding.

The day concluded with afternoon tea and coffee, and a group photograph capturing the spirit of the event.

More than just a day out, the picnic reinforced team connections and provided a much-needed break from routine, highlighting BSDU's commitment to employee well-being and team cohesion

Dept. of Workplace Trng. & Placement

The Department of Workplace Training & Placement marked noteworthy achievements in both internship placements and final job placements during the January-July 2024. 199 students from the second, fourth, and sixth semesters secured internships aligned with their skill specializations, providing them valuable industry exposure.

The Department placed 45 students securing positions in organizations matching their domain interests reflecting the strong industry alignment of skill-based education model at BSDU.

Industry Collaboration Initiatives/Other Activities

- In a promising development, BSDU welcomed Ms. Vinita Kumar and Dr. Partha Datta, Directors of Tianu Furniture, on September 18, 2024.



During their campus visit, they expressed particular appreciation for the advanced workshop facilities and comprehensive educational environment at BSDU.

The visit would serve potential collaboration in multiple areas, including Student placements, Internship opportunities and Employee training programs.

- BSDU hosted key officials from the Department of Skill Development and Employment on 5 September 2024. The delegation included Mr. Mayank Agrawal, Joint Director of Skill Development and Employment, accompanied by Deputy Director Mrs. Smitha Agarwal and Assistant Mr. Joshi.

The visit focused on exploring BSDU's facilities and infrastructure, with particular attention to the guest house accommodations for future collaborative



initiatives. The officials conducted a comprehensive tour of the campus and expressed notable appreciation for the advanced workshop facilities and the overall educational ecosystem. This visit would potentially open new avenues for collaboration in advancing skill-based education and training programs.

- As an initiative towards providing exciting industry exposure initiative, the DWTP facilitated an educational trip of the Students from the Faculty of Automotive Skills on December 07, 2024, to the Audi showroom Jaipur.



During the visit, the students explored Audi's luxurious range of vehicles and gained insights into the latest advancements in automotive design and technology. The students also experienced test drives of Audi cars and received exclusive merchandise as a token of the visit.

- The Department of Workplace Training and Placement organised a session on Digital Marketing by BR Softech Jaipur to sensitize the students of the Faculty of Computing Skills in Digital Marketing. The session covered key aspects of online marketing, including SEO, social media strategies, content creation, and analytics. It also provided insights on basics of animation, including software tools, storytelling techniques, and the creative process involved in producing animated content. The team of BR Softech conducted the session and the students were provided certificates.
- The Workplace Training department conducted Mock Interview Sessions for students of the University from December 3-15, 2024 to provide students with hands-on experience in interview settings and to prepare them for real-world placement opportunities. The Faculties of Computing Skills, Hospitality & Tourism Skills and Healthcare & Paramedic Skills actively participated. The sessions aimed to enhance the students' communication skills, technical knowledge, and overall confidence, ensuring they are better equipped for upcoming professional opportunities.

Visits

Team Visit of the Quality Circle Forum of India (QCFI) on 29.09.2024

Bhartiya Skill Development University proudly welcomed Mr. G. Venkataramanan, Chairman, Mr. A.K. Verma, Hon. Secretary, and Mr. Aniruddha Kaushik, Joint Admin Quality Circle Forum of India (QCFI) is recognized as the leading institution for the

Quality Circle Movement in India. QCFI promotes the integration of quality concepts under the Total Quality Management (TQM) framework across various industries. The members shared their experiences about the quality mechanisms like 5S, TQM, JIT etc followed in different areas during their work experiences.



They also appreciated the efforts taken by BSDU to promote skilled based education in India more specifically in Jaipur, Rajasthan. Secretary of the Quality Circle Forum of India, Delhi Chapter, on September 29, 2024, at 10:00 AM. This visit provided valuable insights into the quality mechanisms employed at BSDU, particularly the Swiss Dual System, which emphasizes a strong focus on quality.

Articles

Revolutionizing Vocational Education: BSDU's New Examination Reforms for 2024-25

Dr. Rakesh Choudhary,
Deputy Controller of Examinations



Bhartiya Skill Development University (BSDU), Jaipur, has taken a bold leap towards enhancing the quality and relevance of vocational education with its reformed Examination and Evaluation Scheme, effective from the 2024-25 academic session. Rooted in the Swiss Dual System, this overhaul marks a significant departure from conventional assessment models, aiming to integrate skill-based learning with structured evaluation to nurture industry-ready professionals.

At the heart of this reform is the division of the academic structure into two major components: the **Skill Education Component** (comprising 80% of the curriculum) and the **General Education Component** (20%). The Skill Education Component includes Vocational Training (VT), Branch Courses (BC), and Workplace Training (WT), while the General Education ensures holistic development through societal and ethical learning modules.

The reformed **assessment structure** places a strong emphasis on **Continuous Assessment**, with 80% weightage in University semesters and up to 60% during workplace training (for 1st and 2nd years). This ensures students are evaluated throughout their learning journey rather than relying solely on traditional year-end examinations. In the final year, the weightage is adjusted to 20% Continuous and 80% End Semester Assessment, highlighting the importance of industry-aligned competencies at graduation.

One of the standout features is the inclusion of **Student Diaries** and **Proofs of Performance**, which provide detailed documentation of students' learning and skill application. These are evaluated by faculty and industry experts, reinforcing the "those who teach should evaluate" principle. Assessment tools range from oral and written exams to group projects, presentations, and hands-on skill demonstrations.

For the **Workplace Training component**, industry mentors—assisted by BSDU faculty—play a critical role in the assessment process. This ensures that the skills assessed align directly with industry standards and expectations. Assessments during workplace training are periodic, ensuring sustained student performance and engagement over the six-month training periods. In terms of academic progression, the policy introduces a **credit-based promotion system**, where students must earn a minimum number of credits each semester to advance. Attendance requirements have also been strictly enforced, with a minimum of 75% mandatory to qualify for examinations.

The new **grading system**, aligned with UGC's 10-point scale, introduces granular feedback through grades such as FA, FB, and FC for different levels of failure, along with Ab (Absent) and I (Incomplete) grades. This nuanced grading helps students understand their performance gaps and areas for improvement.

With the integration of a fixed grading scheme, CGPA computation, and a clear structure for conversion to percentage (if required), BSDU's reforms promote transparency and academic accountability.

In conclusion, BSDU's innovative examination reforms are not just a change in evaluation methodology—they represent a transformative step towards fostering practical, competent, and future-ready professionals. By aligning education with industry demands and focusing on continuous skill assessment, BSDU continues to lead by example in the realm of vocational education in India.

Energy and Economic Study of Cold Storage

Ms. Nikita Singh and Dr. Sheetal Kumar Jain,
FRAC



1. Introduction

Cold storage facilities are essential for preserving perishable goods such as fruits, vegetables, dairy products, and pharmaceuticals. In many remote and off-grid areas, solar-powered micro cold storage systems have emerged as a sustainable solution. One of the key factors affecting the performance and cost-efficiency of these systems is the insulation thickness. Proper insulation reduces heat gain, lowers energy consumption, and improves the overall efficiency of the cold storage unit.

Determining the optimal insulation thickness involves balancing energy savings with economic feasibility. If the insulation is too thin, the cooling system will require more energy to maintain the desired temperature,

leading to higher operational costs. Conversely, excessive insulation increases initial investment costs without proportionate benefits. This report explores the methodology for determining optimal insulation thickness using energy and economic analysis.

2. Principles of Heat Transfer and Insulation

Insulation in cold storage units minimizes heat gain through conduction, convection, and radiation. The heat transfer rate through the walls of a cold storage system is primarily governed by Fourier's Law:

where:

- Q = Heat transfer rate (W),
- k = Thermal conductivity of the insulation material (W/m·K),
- A = Surface area of insulation (m²),
- ΔT = Temperature difference between ambient and storage temperature (°C),
- d = Thickness of insulation (m).

The choice of insulation material significantly impacts energy efficiency. Common insulation materials used in cold storage include:

- **Polyurethane Foam (PUF)**: Low thermal conductivity (~0.024 W/m·K), high durability.
- **Expanded Polystyrene (EPS)**: Moderate insulation efficiency, cost-effective.
- **Extruded Polystyrene (XPS)**: Higher strength and moisture resistance than EPS.
- **Mineral Wool**: Fire-resistant, but higher thermal conductivity (~0.045 W/m·K).

A thicker insulation layer reduces heat gain, but after a certain point, the additional benefits become negligible. Identifying this optimal point requires an economic analysis alongside energy modelling.

3. Energy Analysis of Insulation Thickness

Energy analysis helps determine the impact of insulation thickness on cooling load. The total cooling load (Q_{total}) of a cold storage unit consists of:

- **Transmission Load**: Heat entering through walls, ceiling, and floor.
- **Infiltration Load**: Heat gain from door openings and air leakage.

- **Product Load:** Heat from stored goods.
- **Internal Load:** Heat from lighting, equipment, and human presence.

The cooling energy required to maintain a specific temperature (E_{cool}) is given by:

where:

- COP = Coefficient of Performance of the refrigeration system.

By increasing insulation thickness, Q_{total} is reduced, leading to lower energy consumption. However, beyond a certain thickness, the reduction in cooling load does not justify the additional insulation cost.

4. Economic Analysis of Insulation Thickness

Economic analysis evaluates the trade-off between insulation cost and energy savings over the system's operational lifespan. The total cost (C_{total}) includes:

where:

- $C_{insulation}$ = Initial cost of insulation (material + installation),
- C_{energy} = Energy cost over the system's lifetime.

The payback period (PBP) for insulation investment is:

Using life cycle cost analysis (LCCA), the Net Present Value (NPV) of insulation investment is determined as:

where:

- $Savings_t$ = Annual energy savings in year t ,
- r = Discount rate,
- n = Number of years.

The optimal insulation thickness minimizes C_{total} while ensuring a reasonable payback period.

5. Case Study: Solar-Powered Cold Storage

To illustrate the impact of insulation thickness, a case study was conducted on a 10m³ solar micro cold storage unit operating in a tropical climate with an ambient temperature of 35°C and a storage temperature of 5°C.

Assumptions:

- Insulation material: Polyurethane foam ($k = 0.024 \text{ W/m}\cdot\text{K}$)
- Energy cost: 10 Rs /kWh

- Initial insulation cost: 2700 Rs /m² per cm thickness
- Refrigeration system COP: 2.5
- Expected lifespan: 10 years

Using computational analysis, the results showed:

- **Insulation thickness of 5 cm:** High energy consumption, low initial cost, high operating costs.
- **Insulation thickness of 10 cm:** 40% reduction in cooling energy, optimal balance of investment and savings.
- **Insulation thickness of 15 cm:** Slight additional energy savings, but high installation cost, longer payback period.

The analysis concluded that the optimal insulation thickness was **10 cm**, providing a **payback period of approximately 3 years** and **maximum lifecycle savings**.

6. Recommendations and Future Considerations

To enhance efficiency, the following factors should be considered:

- **Advanced Insulation Materials:** Vacuum insulated panels (VIPs) and phase change materials (PCMs) can improve thermal resistance.
- **Climate-Specific Design:** Insulation requirements vary by region; higher thickness may be needed in hotter climates.
- **Integration with Renewable Energy:** Optimizing insulation alongside solar PV and battery storage enhances sustainability.
- **Real-Time Monitoring:** IoT-based sensors can track performance and suggest insulation adjustments.

7. Conclusion

Determining the optimal insulation thickness for solar micro cold storage requires a combined energy and economic approach. While increasing insulation reduces cooling energy demand, excessive insulation leads to diminishing returns. A well-balanced insulation design minimizes operational costs, improves energy

efficiency, and enhances the economic feasibility of solar-powered cold storage systems. Further research should focus on advanced materials and smart energy management for future improvements.

**The Future of Autonomous Vehicles:
Transforming the Automotive Landscape**

Mr. Avneet Choudhary, FAS



In recent years, the automotive industry has witnessed a monumental shift, with self-driving or autonomous vehicles (AVs) emerging as one of the most exciting innovations. The technology driving these vehicles is not only transforming how we think about transportation but also reshaping industries, cities, and our daily lives. As a Trainer in FACULTY OF AUTOMOTIVE SKILLS at BSDU, I am excited to explore the role of autonomous vehicles and the opportunities they present for future engineers and technologists.

What are Autonomous Vehicles?

Autonomous vehicles are vehicles capable of sensing their environment and operating without human intervention. This involves a complex interaction of sensors, artificial intelligence (AI), and machine learning algorithms that allow the vehicle to navigate, make decisions, and react to various driving situations.

The key technologies behind autonomous vehicles include:

- LiDAR and Ultrasonic Sensors: These sensors help the vehicle perceive its surroundings in 360 degrees, detecting obstacles, mapping environments, and making real-time driving decisions.
- AI and Machine Learning: These systems process vast amounts of data to make decisions like when to accelerate, brake, or steer, simulating human-like driving behaviour.
- Control Systems: These systems are responsible for controlling the vehicle’s speed, steering, and

braking mechanisms, ensuring the vehicle moves smoothly and safely.

The Role of BSDU in Advancing Autonomous Vehicle Technology

At BSDU, we are constantly exploring and implementing cutting-edge technologies in automotive engineering. One such initiative is a self-driving project that combines autonomous systems with practical skills training. By building and experimenting with autonomous cars, we provide students with hands-on experience in the integration of sensors, AI, and vehicle control systems. This is crucial as we equip the next generation of engineers with the skills they need to thrive in this rapidly evolving field.

My Ongoing Project: From Manual Control to Self-Driving

One of the exciting projects I am working on is transforming a joystick-controlled car into a fully autonomous vehicle. This involves the use of various sensors, including ultrasonic sensors and LiDAR, along with AI algorithms to allow the vehicle to navigate without human input. The current model uses servos to control the car’s movements, simulating the actions of a human driver through precise control over speed and steering. The goal is to implement obstacle avoidance, path planning, and ultimately, autonomous driving, making the car intelligent enough to adapt to its environment.

Challenges and Opportunities in India

While autonomous vehicles have made great strides globally, there are still several challenges to overcome, especially in India. From regulatory hurdles to infrastructure limitations, the road to widespread adoption of autonomous vehicles in India is complex. However, India’s rapidly growing automotive industry, along with advancements in AI and IoT, presents a unique opportunity to lead the way in the development of affordable, safe, and efficient autonomous vehicles.



BSDU plays a pivotal role in bridging the gap between education and industry by fostering innovation and providing students with the necessary tools to succeed. By working on projects like self-driving cars, we ensure that our students are not just learning theory but are also gaining practical experience in a field that will define the future of transportation.

The Road Ahead



The journey toward fully autonomous vehicles is exciting and full of promise. With advancements in technology, regulatory reforms, and increased public trust, we are on the cusp of a transportation revolution. At BSDU, we are proud to be part of this transformation, equipping our students with the knowledge and skills to lead in the world of autonomous vehicles.

By focusing on hands-on learning and real-world applications, we are not just preparing students for the current automotive landscape but for the future of mobility. Together, we are building the foundation for a safer, smarter, and more efficient transportation ecosystem.

Skill Development Programs in India: The Role of Skill Universities and the BSDU Model

Mr. Girraj Prasad Soni,
Examination Cell



Introduction

India, with its vast youth population, stands at a crossroads of opportunity and challenge. The growing rate of unemployment, particularly among the youth, calls for immediate and effective strategies to enhance skill development. In recent years, the government has recognized the importance of skill education, yet the implementation and promotion of skill universities have been inconsistent. This article delves into the role of skill universities in India, with a particular focus on the **Bhartiya Skill Development University (BSDU)** as a prime example of successful skill education that aligns with the needs of industry and the aspirations of students.

Quality First Project: Advancing Skill-Based Education

At Bhartiya Skill Development University (BSDU), the commitment to advancing quality education and training is exemplified through the current initiative, the Quality First Project. This initiative emphasizes innovation, collaboration, and excellence in skill-based education. By enhancing project quality outcomes, the aim is to ensure the long-term success and sustainability of the esteemed institution, BSDU. Through the Quality First Project, there is an aspiration to set new benchmarks in educational excellence and foster an environment conducive to skill development that meets the needs of today's dynamic workforce.

BSDU: A Model for Skill Universities in India

The visionary founder of BSDU, Late **Dr. Rajendra Kumar Joshi**, has been instrumental in shaping this institution as a model for skill education in India. His commitment to improving the employability of young Indians is evident in the innovative approaches adopted at BSDU. Bhartiya Skill Development University stands out as a beacon of excellence in skill education. Founded with a vision to address the unemployment challenges faced by the youth, BSDU has implemented the Swiss dual system of education, which combines

classroom instruction with practical training. This model emphasizes the **"one machine, one student"** concept, allowing students to gain hands-on experience using state-of-the-art machinery and tools.

One of the key features of BSDU is its focus on industrial training during even semesters, coupled with stipends for students. This financial support incentivizes students to engage in practical learning while alleviating the financial burden on their families. By immersing students in real-world scenarios, BSDU ensures that graduates are not only theoretically equipped but also possess the necessary skills to excel in their chosen fields.

The BSDU model serves as an exemplary framework for professional development, attracting employees from some of the largest private companies, including Hilti, JCB, Wipro, and Shakti Hormann. These organizations send their employees to BSDU for training to enhance their skills and optimize performance within their respective organizations.

The Need for Government Support

To replicate the success of the BSDU model across India, both state and central governments must actively support and encourage skill universities. The implementation of the Skill India roadmap should include a focus on establishing more institutions like BSDU, which can serve as centers for excellence in skill development.

The government should facilitate partnerships between skill universities and industry leaders, ensuring that academic programs remain relevant to market needs. Encouraging organizations to conduct training programs, workshops, and internships at BSDU will not only benefit students but also create a robust talent pipeline for companies looking to hire skilled professionals.

Moreover, the University Grants Commission (UGC) and the Ministry of Education should highlight the significance of skill universities and their vocational

courses in national policies aimed at youth empowerment. By prioritizing skill education, the government can address the rising unemployment rates caused by a mismatch between academic qualifications and market demands.

The Government's Role in Encouraging Skill Education

Historically, the Indian government's interest in skill education has been limited, leading to a fragmented approach in establishing skill universities. However, in recent years, there has been a paradigm shift, with the government acknowledging the urgency to address the skills gap in the country. Initiatives like the **Skill India Mission, launched by Prime Minister Narendra Modi in 2015**, aimed to empower millions of youth through skill development programs. The government's focus has shifted towards vocational training and skill-oriented education, but the establishment of dedicated skill universities has not received the attention it deserves.

The government has introduced several schemes to promote skill development, yet the execution at the ground level often lacks coherence and integration with industry needs. The establishment of skill universities should be prioritized to create an ecosystem where students can receive hands-on training and industry-relevant education. By doing so, the government can create a workforce that is not only employable but also capable of driving innovation and growth in various sectors.

Collaborative Efforts for Success Skill Universities in India

For Skill Universities in India to thrive and serve as exemplary models for other educational institutions, it is imperative to establish Memorandums of Understanding (MOUs) with both state and central government organizations. Such collaborations can play a pivotal role in the development of laboratories, the promotion of innovative research initiatives, and the

acquisition of government projects that align with the university's mission to enhance skill education.

Moreover, Skill Universities should actively organize seminars, workshops, and conferences that facilitate engagement among government entities, private sector companies, and academic institutions. These events will not only create valuable networking opportunities but also promote the exchange of knowledge and ideas, thereby encouraging internships for students enrolled at the university. The involvement of faculty members and the Training & Placement (T&P) department in orchestrating placement drives will significantly enhance graduates' employability by establishing connections with potential employers.

Regularly scheduled placement drives, ideally conducted on an annual basis, will provide students with a vital platform to showcase their skills and secure employment offers from reputable companies. This proactive approach will not only benefit current students but will also serve to strengthen the university's alumni network, thereby enhancing its reputation as a premier institution dedicated to skill development.

Conclusion

In conclusion, the need for skill development programs in India is more pressing than ever, given the high rates of youth unemployment. While the government has made strides in promoting skill education, the establishment of skill universities remains a critical area for growth. The BSDU model exemplifies the potential of skill universities to bridge the gap between education and employment. By supporting institutions like BSDU and fostering partnerships with industry leaders, the government can create a robust ecosystem for skill development that empowers the youth and contributes to the nation's economic growth. The future of India's workforce depends on the proactive measures we take today to invest in skill education and training.

Skilling for Employment: Shaping a Future-Ready Workforce through Industry-Oriented Education

**Ms. Alka Choudhary,
Examination Cell**



"Instead of being taught by someone who read about it, you're learning from someone who's done it. That makes a huge difference."

In the evolving landscape of global employment, the need for a future-ready, skilled workforce has never been more critical. As industries rapidly adapt to new technologies and market demands, education systems must also transform—shifting away from rote, theoretical learning to hands-on, skill-based training that prepares students for real-world challenges.

Why Industry-Oriented Education Matters

Traditional academic models, while valuable, often fall short in equipping students with job-ready skills. The growing disconnects between classroom learning and industry expectations highlights the urgent need to redefine education as a tool for capability-building, not just degree acquisition.

This is where industry-oriented education steps in. By prioritizing practical learning, real-world experience, and sector-specific skills, this approach ensures students are not just knowledgeable—but competent, confident, and employable.

The B.Voc. Advantage: Bridging the Gap

One powerful example of this shift is the Bachelor of Vocation (B.Voc.) program—a skill-based undergraduate degree designed to meet the immediate needs of employers while offering flexibility and career progression for students.

B.Voc. programs combine on-the-job training (OJT), internships, workshops, and lab-based projects to provide immersive learning experiences. Students gain technical knowledge as well as vital soft skills such as:

- Effective communication

- Problem-solving
- Teamwork and adaptability

These are the exact traits today’s employers value most.

Cross-Sector Relevance of Skill Development

From IT and healthcare to manufacturing and retail, the demand for industry-relevant skills spans across sectors:

- In technology, expertise in programming, data analytics, and cybersecurity is vital.
- In manufacturing, automation, machine operations, and quality control are key.
- In healthcare, clinical skills paired with technological proficiency are essential.

These competencies go beyond textbooks—they require hands-on practice, mentorship, and real-time application, which B.Voc. and similar programs effectively provide.

Collaboration is Key: Academia Meets Industry

To truly prepare students for modern careers, strong collaboration between educational institutions and industries is essential. This includes:

- Co-created curricula with industry partners
- Guest lectures and certification programs led by professionals
- Innovation labs and incubation centres that foster creativity and entrepreneurship

Such partnerships ensure that students don’t just learn about a subject—they experience it in action.

Government & Technology: Enabling the Skilling Revolution

India’s skilling mission is supported by robust government initiatives such as:

- Skill India
- National Skill Development Mission
- Apprenticeship schemes

These initiatives, when aligned with educational policies promoting vocational training, empower students with job-ready and entrepreneurial skills.

In parallel, digital platforms have democratized skill development. From AI-driven simulations to virtual

internships and MOOCs (Massive Open Online Courses), students can learn flexibly, affordably, and in sync with global trends.

A Shift in Mindset: From Degrees to Capabilities

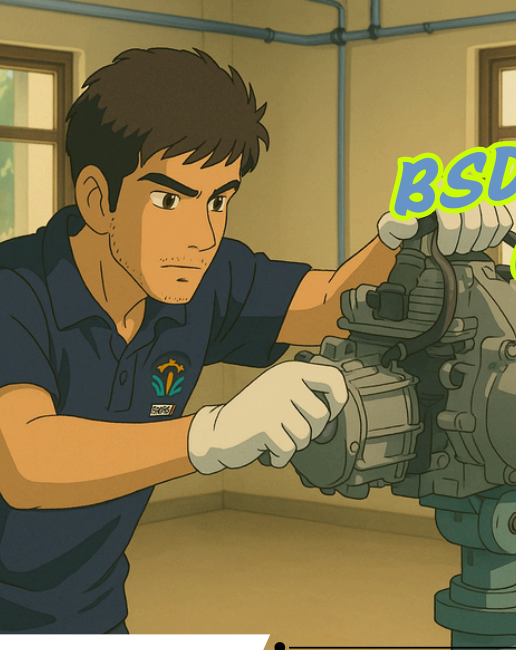
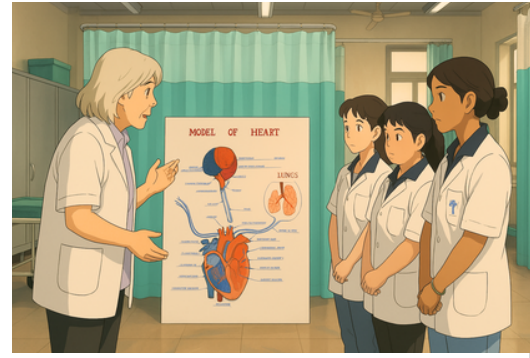
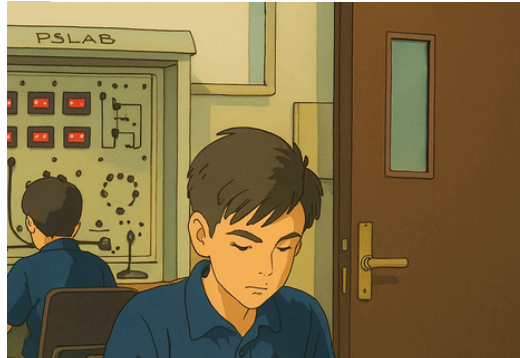
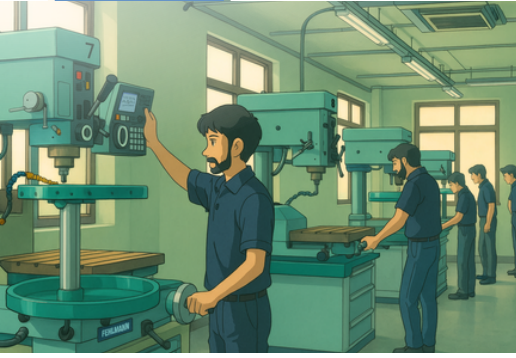
What’s truly needed is a cultural and academic shift in mindset—one that values skills over scores, capabilities over certificates. Education must become a journey of lifelong learning, where students are guided to explore, innovate, and adapt to the ever-evolving world of work. Educators, too, must evolve—becoming facilitators and mentors rather than mere transmitters of information.

Conclusion: Creating a Skilled and Resilient Generation

In a world where skills often matter more than qualifications, the emphasis on industry-oriented, skill-based education is not just timely—it’s transformative. Programs like B.Voc. represent more than a degree; they are a mission to create a generation that is employable, entrepreneurial, and empowered.

By investing in skill development, we’re not only strengthening our workforce but also laying the foundation for inclusive economic growth, innovation, and sustainable development.

The future belongs to the skilled. And the journey begins now.



BSDU Through the Eyes of Chibli Studio Style



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