

# BSDU NEWSLETTER

Issue No: 2  
July– Dec. 2018



## School of General Education



## Bhartiya Skill Development University Jaipur

### Editor's Desk

It is with great pleasure that we are bringing out the second issue of the Newsletter. BSDU has made immense progress since our previous Newsletter of June 2018. Several new schools have been introduced offering various programs in B.Voc. and M.Voc. The student intake has increased by leaps and bounds and students of the even semesters are doing well in their respective industries. Students have excelled in competitions at the National level. Many competitions were held at the University, including one on Legal Rights of Women, and the students participated enthusiastically. In this issue of the Newsletter we have attempted to present the numerous activities and achievements of the schools during the past six months. This includes the general performance of the schools and the individual laurels won by our faculty. We have included a 'Student's Corner' where the students have found a platform to express themselves. As we wind up with an eventful 2018, we at the editorial team, look forward to an exciting 2019 at BSDU. Wishing you all the best for the coming New Year.

**Dr. Surat Singh**  
Principal,  
School of General Education



Bhartiya Skill Development University Jaipur (BSDU) has been incorporated as a State Private University vide GOR Act No. 3 of 2017 (BSDU Act). It is the First Pure Skills University in the country and is spread over an area of 30 acres in Mahindra World City, Jaipur. BSDU has state-of-the-art infrastructure with high-end machinery, imported from Germany, Austria, Spain and Switzerland.

This state-of-the-art University is the vision of Dr. Rajendra Kumar Joshi and Mrs Ursula Joshi. Dr R.K Joshi was born on 13th September 1934 in Dundlod, Sikar district, Rajasthan and later moved to Sadulpur where he did his schooling.



He completed his Pharmacy degree from BITS Pilani, India, with a gold medal in 1958 and a Ph.D in 1968 from University of Komensky, Slovakia. He was invited at the Federal Institute of Switzerland as a Research Associate and later as a Professor (dozent) in Medicinal Chemistry and Structure Activity Relationship at Federal Institute of Switzerland and guided a number of Ph.D. students.

Dr. Rajendra Joshi married Ursula, a Swiss Citizen. They now reside in Switzerland. Dr. Joshi was a founding partner of Fumapharm AG Switzerland, a pharmaceutical company which was sold in 2006 to Biogen Idec. At Fumapharm, he developed a number of products against several diseases, like Fumaderm against psoriasis.

Dr R.K Joshi and Mrs Ursula Joshi tried to analyse why the Swiss, German and Austrian economies were so sound that even a huge crisis like World War II could not unsettle these huge economies. They found the main reason for this was the 'Swiss Dual System' of education. The "Dual" here means learning theory in vocational school and practical training on-the-job, in the industry.

They formed the 'Rajendra and Ursula Joshi Foundation' (JCF) in 2006 in Wilen, Switzerland and started working on bringing the Swiss Dual System of skills training to India. They tried to convince the Indian industry and government to support this system but met with limited success. Therefore, they decided to set up a state-of-the-art institute in Jaipur to showcase the benefits of the dual system of education. This thought of having their own skill training institute led them to initiate a project called Bhartiya Skill Development Campus (BSDC) Jaipur with basic skills training in Polymechanics. The campus was inaugurated by Mrs Vasundhara Raje, the then Chief Minister of Rajasthan on 23rd April 2016 and on the same day an MOU was signed between Govt. of Rajasthan (GOR) and BSDC for establishment of Bhartiya Skill Development University (BSDU) Jaipur. JCF, located in Switzerland, is the Knowledge Partner of BSDU. It uses its resources to modify the Swiss system to suit Indian environment, develops educational content, recruits human resources from Europe, sources machinery and equipment and supports the University in its operations.

The Rajendra and Ursula Joshi Charitable Trust (RUJCT) was created for sponsoring the University. Dr R.K Joshi is the Founder Chairman of BSDU. It is the first of its kind University, promoting Skill Development through actual practical skills training based on the concept of "One Machine—One Student". The University is working on the model of Swiss Dual System of Training.

BSDU Model of Education is based on semester system and offers Certificate, Diploma, Advanced Diploma, Bachelor of Vocation (B.Voc), Master of Vocation (M.Voc) and Ph.D in various skill areas and the programs are in compliance with UGC Instructions for Vocational Programs, National Skills Qualifications Framework (NSQF), AICTE Instruction for Vocational Programs, NSQF RPL (Recognition of Previous Learning) Guidelines, Guidelines of respective Sector Skill Councils (SSC), National Occupational Standards (NOS), Skills Qualification Packs. The B.Voc. programs of the University have two main components namely – Skill Component (roughly 60% of the content) and General Education Component (roughly 40% of the content). The students are assessed for these two components separately. The Skill Component is covered in two distinct forms - one is the hands-on skills training in the state-of-the-art workshops and laboratories in the University and the second is the hard core on-the-job training during the six-month industrial internship every alternate semester i.e., 1st, 3rd and 5th semester in BSDU and 2nd, 4th and 6th semester in industry. There are multiple entry and exit points for the students.

BSDU is different from the other Institutes offering skill courses because of the following features:

- One student – one machine concept
- Swiss Dual system of training
- Training on world's best machines
- Every alternate semester in Industry
- Earning while learning
- Training under supervision of foreign trainers
- Hands-on practical exposure in all programs
- Flexible entry/exit options to suit both industry & student
- Better career prospects

Brigadier (Dr.) Surjit Singh Pabla is the Vice Chancellor of Bhartiya Skill Development University (BSDU) Jaipur. He is a mechanical engineer with M. Tech and Ph. D from IIT Bombay possessing a vast experience in multiple infrastructure projects, Academics and Academic Administration. Dr.Pabla has been President BSDC Jaipur, Vice Chancellor of Mangalayatan University Aligarh, President JECRC University Jaipur, Founder President Manipal University Jaipur, Vice Chancellor Sikkim Manipal University Gangtok and Pro VC Manipal University Manipal. He has also been Director Manipal Institute of Technology Manipal and Director Sikkim Manipal Institute of Technology in Sikkim. BSDU is emerging as a leading skill development university in India under his able guidance.

## BSDU Certificates & Awards

- **Best Emerging Skill Development University Award** by Employers' Association of Rajasthan on 24<sup>th</sup> November 2017
- **Best Industry-Academia Interface Award 2018** by EdTech Review on 15<sup>th</sup> February 2018
- **Global Intellect Award – 2018 for Best Research and Innovation University Award of Southern Asia 2018** by Asian Society for Scientific Research (ASSR) on 7<sup>th</sup> April 2018
- **Internationalisation India's Education 2018 Award** by Re THINK INDIA Foundation on 11<sup>th</sup> May 2018
- **Education Excellence Award for Best University for Skill Development** by Indian Education Network in 6<sup>th</sup> Skill Development Summit on 18<sup>th</sup> July 2018
- **Preferred University for Skill Development** by ELETS Technomedia 12<sup>th</sup> World Education Summit on 10<sup>th</sup> August 2018
- Awarded **GEM certificate and Award** by ASSOCHAM under GEM Sustainability Certificate Program with PRE-CERTIFICATION GEM 4 level of Pre-certification on 29<sup>th</sup> August 2018
- **India Leadership Award 2018** for being **India's Best Vocational Training University** by Blindwink Solutions Private Limited on 7<sup>th</sup> October 2018 in Bengaluru
- **Most Promising Global University** by Global India Education Forum Awards for Excellence in Education on 13 September 2018 in Geneva, Switzerland.

**MOUs  
Signed by BSDU in the Year 2018**

<b>S. No</b>	<b>Name of Industry/ Organisation</b>	<b>Skill Sector</b>	<b>MOU signed for</b>	<b>Date-MOU signed on</b>
1.	Kailash Group Companies, Arya Group Colleges, Bhardwaj Foundation and Employers Association of Rajasthan	Industries & Training Institutes	Skill based Training, Education, Research, Development and Employment	20.01.2018
2.	Aha 3D Innovations Private Limited	Manufacturing and Marketing various 3D Printers & Other Products	A 3D printing lab setup at BSDU via technology collaboration with Aha3D. A roadmap to scale up the lab by adding more 3D printers in similar modality	07.02.2018
3.	Forsk Technologies Pvt Ltd Jaipur	Embedded and Internet of Things (IoT) and Machine Learning and Artificial Intelligence (ML & AI)	To Support, Develop, Promote and deliver programs M Voc. Embedded and Internet of Things (IoT) and B. Voc. – Machine Learning and Artificial Intelligence (ML & IA)	20.03.2018
4.	Furniture & Fittings Skill Council (FFSC)	Furniture & Fittings	Cooperation within area of Skills Based Training, Education, Research and Development and Employment	02.05.2018
5.	MSME Technology Development Centre (org under GOI), M/s CADD Centre	Skill Development & Training Programs on different skill sectors	Skill Development, Training programs on different skill sets like computer, Industrial machines, Software, IT, CAD/CAM & other related engineering trades.	05.05.2018
6.	Queensland Skills & Education Consortium Australia	Collaboration in Faculty Exchange, Student Exchange, Joint Programs and Joint Research	Collaboration in Faculty Exchange, Student Exchange, Joint Programs and Joint Research	15.05.2018
7.	GIST Information Solutions Private Limited/Induslynk Training Services Private Limited Gurugram	Managing and Conducting Entrance Exam for BSDU	Managing and Conducting Entrance Exam for BSDU	22.05.2018
8.	Anand Engineering Works, Ballabgarh	Skill Development & Training Programs on manufacturing of precision turned & engineering components	Skill Development & Training Programs on manufacturing of precision turned & engineering components	21.06.2018
9.	Osner Chemicals Pvt Ltd, Mumbai	Jointly setting up a Centre of Excellence for Surface Modifications at BSDU	Jointly setting up a Centre of Excellence for Surface Modifications at BSDU and to undertake Industrial Scientific Research Projects	25.07.2018

<b>S. No</b>	<b>Name of Industry/ Organisation</b>	<b>Skill Sector</b>	<b>MOU signed for</b>	<b>Date-MOU signed on</b>
10.	Agarwal Metals, Ajmer Road, Jaipur	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research, Development and Employment	27.07.2018
11.	Bram Wood Crafting Studio, Pvt Ltd, Mysore Karnataka	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research and Development and Employment	27.07.2018
12.	SRK Modular Furniture, Jayenti Market, Jaipur	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research and Development and Employment	27.07.2018
13.	Nirmal Glasstech Industries, VKI Area Jaipur	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research and Development and Employment	28.07.2018
14.	Balaji Soni Hospital, Bagru, Jaipur	To provide a doctor to BSDU for four hours Cooperation, Skill Based Training, Education, Research and Development and Employment	Balaji Soni Hospital to provide a doctor to BSDU daily, for four hours. Cooperation, Skill Based Training, Education, Research and Development and Employment.	16.08.2018
15.	Axalta Coating Systems India Pvt Ltd, New Delhi	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research and Development and Employment	16.08.2018
16.	ASDC, New Delhi	Skilled Based Training, Education, Research and Development and Employment	Skilled Based Training, Education, Research and Development and Employment	04.09.2018
17.	SIIRT University, Turkey	Exchange of Students, Faculty and staff members, Training Program, Exchange of Scholarship	Exchange of Students, Faculty and staff members, Training Program, Exchange of Scholarship, Joint research and consultancy activities, Participation in seminars and academic meetings, Exchange of academic materials and other information.	13.09.2018
18.	Marmara University, Turkey	Exchange of Students, Faculty and staff members, Training Program, Exchange of Scholarship	Exchange of Students, Faculty and staff members, Training Program, Exchange of Scholarship, Joint research and consultancy activities, Participation in seminars and academic meetings, Exchange of academic materials and other information.	18.10.2018
19.	Holy Trinity Educational Society, Hyderabad	Skill Development, Outcome Based Trainings, Internship, Placement, R&D & Related Services	Skill Development, Outcome Based Trainings, Internship, Placement, R&D & Related Services	24.10.2018
20.	Hero MotoCorp Ltd, New Delhi	Skilled Based Training, Education, Research and Development and Employment	Opening of “ Hero Centre of Excellence” at BSDU & Skilled Based Training, Education, Research and Development and Employment	01.11.2018

- We welcome **Professor Achintya Choudhury** who has joined BSDU as Registrar on 15 Dec 2018. He is a Mechanical Engineer with B.E. from NIT Silchar, M.Tech from IIT Kharagpur and Ph.D. from IIT Delhi. He has over thirty years experience in teaching. Before joining BSDU, he has held important academic assignments including Director, Dean and Pro Vice Chancellor.
- **Upgradation of Qualification of BSDU faculty:**

The following faculty have been awarded their Ph.D. Degrees:

- Col. (Dr.) Ravi Gosain, Provost, BSDU, has been awarded his Ph.D. degree on *Revalidation of Officers Selection System of the Defence Services of India* from JECRC, Jaipur in 2018.
- Dr. Pallavi Mathur, Assistant Professor, has been awarded her Ph.D. degree on *Effectiveness of Self-help Groups for Empowerment of Rural women in Jaipur, Rajasthan*, from JECRC, Jaipur in 2018.
- Dr. Purna Srivastava, Assistant Professor, School of General Education, has been awarded her Ph.D. degree on *Negotiation of contemporary culture in the selected Plays of Mahesh Dattani* from Jaipur National University, Jaipur in 2018.
- Dr. Saurabh Ratra, Assistant Professor, School of Electrical Skills has been awarded his Ph.D. degree on *Voltage Stability Analysis and Congestion Management* from MNIT in 2018.
- Dr. Sumitra Singar, Assistant Professor, School of IT Skills has been awarded her Ph.D. degree on *Design and Performance Analysis of Low Power Fault Tolerant Latches and Flip-flops* from Mody University of Science & Technology, Lakshmanagarh, Sikar, Rajasthan in 2018.
- Dr. Vipin Pahuja, Assistant Professor, School of HVAC&R, has been awarded his Ph.D. degree on *Investigation of PVD Coated and Cryogenic Treated Cutting Tools for Drilling on Duplex Stainless Steel* from Punjab Engineering College, Chandigarh in 2018.

Dr. Rinku Raghuvanshi

### 1. School of Hospitality & Tourism Skills

*Ms. Marietta Nüssli,  
Project Manager*

The School of Hospitality & Tourism Skills will be a unique combination of theory and practice. The students will be given an opportunity to prove themselves individually and in a team in demanding situations and to transform the acquired knowledge into intelligent action thus turning theory into practice. Our trainers are specially trained to ensure that students will be able to develop the multiple perception and assessment skills required in the real environment.

Complex occasions and events will be planned and organised so as to improve teamwork, communication and conflict skills, organisation and systematics, endurance, reliability, resilience and integration skills.

Team leadership, organisation and coordination will be systematically taught and promoted, be it in the role of Banquet Manager, F&B Controller, Executive Chef, Executive Housekeeper, Front Office Manager or Workshop Leader.



Model:  
Hospitality Skill School  
New Campus, BSDU, Jaipur



Training Kitchen

#### The program:

The B.Voc. program is an undergraduate course in vocational training alternating between 6 months of studies at the school and a 6-month internship (practical work) in the various aspects of hotel management for a period of 3 years. In the third year of the B. Voc. Program, the students choose their area of specialization. After B. Voc. the student can extend his studies with the M. Voc and Ph.D. program.

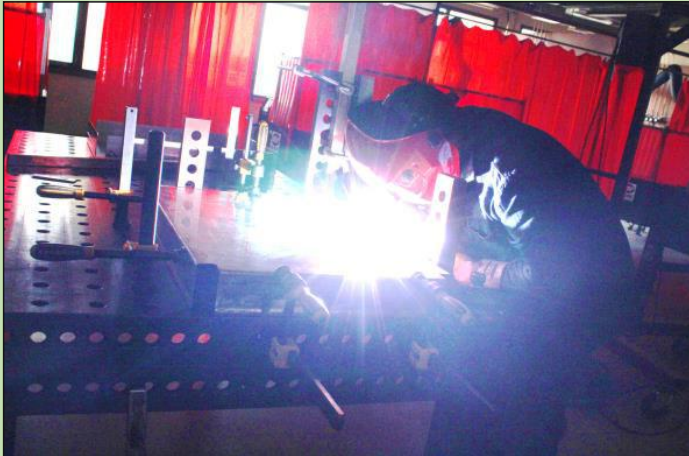
The hotel management school is currently under construction at the new campus and it is proposed to begin the school in August 2019. The hotel management school is modelled after the Hotel Management School, Belvoir-Park, Switzerland, known for its trendsetting standards regarding functionality, infrastructure, and aesthetics.

## 2. School of Sheet Metal Construction

**Mr. Marcus Flepp,  
Project Manager**

Next semester BSDU proposes to start a new school i.e. *the School of Sheet Metal Construction* as a part of the *School of Manufacturing Skills*.

Mr. Marcus Flepp is highly experienced in the field of Sheet Metal Production and was most recently employed at Bühler as plant manager.



**Metal Cutting**

## Schools and Their Achievements

### School of Informatics & Automation

**Dr. Kumkum Garg  
Dean, BSDU**

- The Faculty of Informatics & Automation (earlier known as Faculty of Informatics, Photonics & Robotics) will now have two Schools:
  - a) School of Computing Skills: to run the B.Voc. Programs in IT/Networking skills and Machine Learning & AI Skills
  - b) School of Telecom and Electronics Skills: to run the B.Voc. Programs in Telecom skills and VLSI Design Skills
- A state-of-the-art Robotics Laboratory is being set up with Robots from ABB and TAL.
  - c) 3 Robots from ABB include a Pick and Place Robot, a Vision-controlled Robot and an Arc-welding Robot
  - d) 3 Robots from TAL include a Vision-controlled Cell, a Gesture-controlled Cell and a Speech Cell.
- A 3-day Workshop on Additive Manufacturing (3D Printing) was organized by the School under the aegis of

NIRDESH Delhi, for Officers of the Ship-building units/shipyards in the country. Lectures were delivered by faculty of IIT, Kanpur and hands-on practice was done in our 3D lab. by in-house faculty members and Trainers.

- Dr. Milan Sasmal, faculty in the School of Telecom & Electronics skills, has been invited to work for a week at IIT Kharagpur, in their Microelectronics lab.
- Col. Raj Kumar, an alumnus of IIT Bombay and experienced Telecom professional and Dr. Soma Kumawat, have recently joined the School of Telecom & Electronics skills.
- Students of B.Voc. III Semester and Faculty/Trainers of the School of Computing visited the premises of TCL (Tata Communications Limited) to have first-hand information about how optical fibres are processed. They also learnt how faults in OFC are diagnosed and repaired.
- Dr. Kumkum Garg, Dean, visited the Optinext Lab at Bombay and interacted with the Director for possible collaboration in the area of Optical Networking.
- Mr. Deepak Khatri, Trainer, has successfully set up the ID printing software for the HR Section. ID cards will henceforth be printed through this software.

### School of Entrepreneurship Skills

**Dr. Ravi Goyal  
Principal**

Bhartiya Skill Development University (BSDU) has launched the B.Voc., M.Voc. & Ph.D. programs in Entrepreneurship Skills. The objective is to convert the Job Seekers into Job Generators/ Providers. This course will inculcate a positive attitude, business culture and empower the students to start their own micro enterprises. These programs will:

- Motivate students towards self-employment through a positive attitude.
- Equip the students with Entrepreneurial Skills and Knowledge.
- Enable the students to assess the commercial viability of new/existing business opportunities.
- Encourage the students to start independent enterprises.
- Enable the students to create an entrepreneurial environment by generating jobs.
- Enable the students to appear for all kinds of competitive exams in Central and State services.
- Enable the students to secure gainful wage employment if required.

## ***Fee Reimbursement***

Though the fee is very reasonable and nominal, it is proposed to refund the course fee to the students to encourage them to start their own micro enterprise activity subject to the following conditions:

- A student should complete the 3-year B.Voc. in Entrepreneurship Skills.
- A student should score atleast 50% marks in all the subjects.
- A student should prepare a rough draft Project Report during the course itself.
- A student should start the enterprise/micro business within six months after completion of B.Voc. degree.
- BSDU will extend mentoring and hand holding support.
- BSDU will be a 3% Stake Holder in new business/enterprise.

If a student is starting the enterprise after six months but within one year, only 50% of the fee will be refunded.

## **School of Construction Skills**

***Prof. Iqraz Nabi Khan***  
***Principal***

The School of Construction Skills is relatively younger in our university. It has its first intake of regular students in first and third semester B.Voc programme in session 2018-19.

The school has developed about 1300 m<sup>2</sup> area open to sky construction yard where students learn layout of buildings, various types of foundations, masonry, bar-bending, scaffolding, formwork, water supply and sanitary (plumbing) works, plastering, painting, tiling, flooring and other fixtures. Students acquire skills in different types of masonry like clay bricks, fly ash bricks, perforated bricks, concrete blocks and hollow concrete blocks. Different types of plasters and pointing, suited to the different type of masonry and other factors are also learnt. Students also learn about different types of roofing and ceilings as well as different types of scaffolding and formwork including bar bending. Training in cladding, ordinary cement flooring, use of marble, granite, stone, tiles, etc. for walls and floors is also imparted there.

Another construction yard of about 1000m<sup>2</sup> covered area is under construction and likely to be completed soon. It will provide an opportunity for students to develop skills in modern dry masonry walls used for erecting light weight partitions, painting, different types of floors, roofs and ceiling. It will have state- *of- the- art* laboratories for

plumbing skills, testing various construction materials and a pavement laboratory.

The School also intends to develop field testing facility for pavements.

## **School of Carpenter Skills**

***Mr Narendra Singh Rathore***  
***Principal I/C***

### **Achievements**

Students of the School participated in the "*India Skill West Regional Competition*", held in Jaipur on 24-26 May 2018. Vikash Kumar Naga won Gold medal and a cash prize of Rs. 21000/-

- Kamlesh Bagra won the Bronze medal and Rs. 50000/- in Joinery Trade in India Skills competition held from 02-06 October 2018 in New Delhi.
- Mohit Kalal, a student of the school participated in *India Skill South Regional Competition*, held in Bengaluru on 21-23 June 2018 and won the Silver medal and a cash prize of Rs. 11000/- in Cabinet Making Trade.
- In the very first year, the students participated in the national level competition, *India Skills-2018* organised by *National Skills Development Council* under the aegis of the *Ministry of Skill Development and Entrepreneurship*, Govt. of India, at Aerocity Ground, New Delhi on 02-06 October 2018. Vikash Kumar Naga won the Gold medal and Rs. 100000/- while Kamlesh Bagra won the Bronze Medal and Rs. 50000/- in Joinery Trade. In *Cabinet Making Trade*, Mohit Kalal bagged the Bronze Medal and Rs. 50000/-
- Mr. Sushith KS, a student from Kerala, trained at SCS, also participated in the *India Skills-2018* and won the Silver medal in addition to Rs. 75000/-. He also participated in the "EUROSKILLS" held at Budapest (Hungary) from 26-29 September 2018.
- Mr Dharmendra Pradhan, Minister of Skill Development, Entrepreneurship, during his visit to *India Skills-2018* appreciated BSDU for providing support in organizing the event.
- It is an honour for the School to have been assigned responsibilities by NSDC to train the national level winners. The selected ones would be eligible to participate in *World Skills Olympia* to be held at Kazan, Russia in 2019.
- NSDC presented certificates of appreciation and participation to BSDU and RUCT on account of their outstanding contribution in the *Indiaskills-2018* held at *Aerocity Ground*, New Delhi from 02-06 October 2018.

- Mr Narendra Singh Rathore, Principal I/C of the School participated in the event EUROSKILLS held at Budapest (Hungary) from 26-29 September 2018 as an expert from India and was awarded certificate of participation by Mr Rahul Chhabra, Ambassador of India to Hungary. He has also been selected as an expert for the *World Skills 2019* (Kazan, Russia) and *Euro Skills 2020* (Austria). Mr Rathore was appointed as Chief Expert for Joinery trade in India Skills-2018 held at Aerocity Ground, New Delhi, from 02-06 Oct. 2018.
- As per their expertise in respective trades, the trainers of the School participated as Jury members and Workshop Managers at different skills competitions held at *Regional* level and *National* level competition *Indiaskills-2018*.
- It is a proud moment for the School to have been chosen by NSDC to organize Track 2 & 3 competitions in carpentry at SCS. The School also hosted the *Euroskill-2018* qualifiers competition on behalf of the NSDC on 16- 17 August 2018.

### **Boot Camp Training:**

NSDC has offered the School to conduct *Boot Camp* to train all national level winners to enable them to get desired results in the forthcoming *World Skills 2019* to be held at *Kazan (Russia)*.

**Promotions:** In recognition of their outstanding performance the under mentioned junior trainers of the school have been promoted as *Trainers*:

- Mr Shubham Pathak
- Mr Harendra Singh
- Mr Sohail Khan
- Mr Raja Kushwaha
- Mr Abhimanyu Kumar
- Mr Pankaj Singh

The School welcomes Mr. Matthias Faeh from Switzerland as *Project Manager*, SCS to inculcate international level carpenter skills to the students enabling them to compete efficiently in the sector to get good placements.

### **Proposed Programs:**

The School has proposed to organize a *Two-month* program for the students of B. Tech in the coming semester. A certificate program for trainers of SCS has been proposed by FFSC in Dec 2018.

### **New Lab:**

A new lab equipped with the latest Indian wood working machines is to be established shortly in the newly constructed building at the present campus to further enhance quality training as well as acquaint the students with the operation/supervision of Indian originated

machines used in the Woodcraft and Entrepreneurship sectors.

### **Industrial Visits:**

In order to familiarize the students with the prevailing system/operations in the woodcraft industries, the school organized industrial visits to *SRK, Modular Furniture Corporation*, Jaipur, on 31 Aug. 2018 and to *A & D International Pvt. Ltd.* Jaipur on 18 Sep 2018.

### **Placements:**

After completing their six-month certificate course in *Advanced Carpenter Skills* in June 2018 the B. Tech students got 100% placement in *RUJ Woodcraft Industry*.

## **School of Automotive Skills**

*Prof. Mohanjit Singh Walia*  
*Principal*

### **Achievements of School of Automotive Skills**

We are dedicated to maintaining the highest standards of education. Our High Quality Learning approach ensures that we help every child achieve excellence and to emerge with a healthy understanding of the world that comes from an international school education. The school acknowledges the hard work of the students and the faculty. With a dedicated team of students and faculty, the school will continue to strive and attain excellence in skills training in Automotive sector. Highlights from the last session include:

- Signing of MoU with Hero Moto Corp. with focus on imparting training to the students in the emerging area of two wheelers by setting up a state-of-art Hero Centre of Excellence at BSDU. As a part of MoU, Hero Moto Corp will facilitate the training of trainers, training of students in the field of two wheeler technologies and will also help in arranging internships and placement of B.Voc. students.
- Signing of MoU with Automotive Skill Development Council focused on course content development, industry connect and training and development of students and faculty/trainers.
- Signing of MoU with Axalta Coating Systems Pvt. Ltd. which is a U.S. based company and one of the leaders in the world for Auto Paint Manufacturing. The focus is on course development and imparting training in Auto Refinish Painting which is one of the highest sought skills in the Automotive sector. Equipment worth 10 lakhs INR was sponsored by Axalta to School of Automotive Skills as a part of MoU.

- The school achieved 100% internship placement for all its students during the last semester with a fantastic feedback from the industry - all students undergoing internship were offered jobs after 6 months of internship. We are in the process of striking an MoU with KTL Maruti Pvt. Ltd., Kalyan Motors- Mahindra & Mahindra, and Pink City HONDA for continued relationship with regards to internship and placements of students.



Students in the Healthcare Lab



## School of Health Care & Paramedics

*Ms. Claudia Ritschard*  
*Principal*

### Skills Lab in Medical Nursing Assistance (MNA)

#### Aim:

To train students to assist nurses in hospitals for contributing to enhanced quality health care.

#### Objectives:

To train students to:

- practise hand hygiene consistently
- communicate with patients and visitors professionally
- assist staff nurses in hospitals in care procedures
- handle bio medical waste properly
- prepare the material for a planned procedure

The room of health care skills lab is a simulated hospital ward with different types of beds such as one would find in a hospital. Hand-sanitizer bottles are placed on each bedside closet. Sliding curtains surround the more modern beds and can be used to separate the beds. The only giveaway that this is a teaching facility is that the patients are made of plastic and latex.

The skills lab is where the future MNAs practice and hone their technique. The skills Lab is where teamwork and leadership are developed as the students perform tasks they would do on the job.

At one bed, an MNA takes the mannequin patient through the procedure of sponge bath, verbalizing every step such as asking for preferences of water temperature, time to carry out the sponge bath etc. At the other beds, students practise personal hygiene care of the patients. The students gain confidence from this practical approach towards handling patients.

Medical room: All students and employees of BSDU can avail the benefit of the presence of a Doctor in the medical room who will be available for consultation between 11 a.m. to 2.00 p. m. on all working days.

In any emergency the following phone number may be contacted- 8696933374

## School of Manufacturing Skills

*Mr. Daniel Egli*  
*Project Manager*

### Skill Competition

In the week from 28 May 2018 to 2 June 2018, the regional selection of the nominees from the Western Region took place at the School of Manufacturing Skills for the National Skills Competition.



This event was successfully conducted by Mr. Andy Wild, Mr. Bernard Favre and their team. Mr. Madhusudan Singh Rathore, one of the students at the School of Manufacturing Skills qualified for the National Skills Competition. On 2 October 2018 Mr. Daniel Egli joined BSDU as Project Manager at the School of Manufacturing Skills



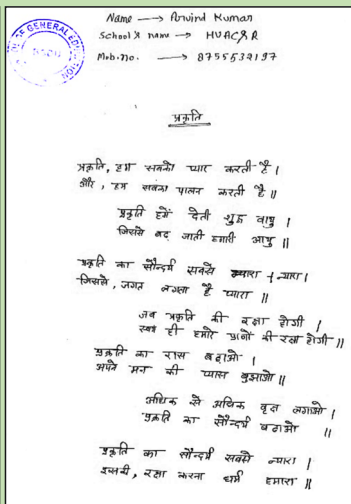
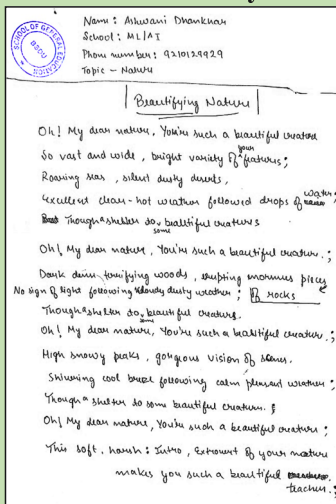
## Talents & Expressions

On the account of Gandhi Jayanti, the School of General Education conducted Poetry Writing Competition on 22 Sept. 2018 and Speech Competition on 1st October, 2018 in which more than 100 students participated. The topics for Poetry Writing Competition were *Nature*, *Childhood* and *India of My Dreams* and for the Speech Competition the topics were *Swachh Bharat*, *Patriotism* and *Skill India*. The Jury for Speech Competition included four members viz. Prof. S.K. Jhajharia (Principal, School of Electrical Skills), Prof. Mohanjit Walia (Principal, School of Automotive Skills), Dr. Sushila Sharma (Deputy Registrar) and Dr. Rinku Raghuvanshi (HRO).

The Hon'ble Vice Chancellor, Provost, Registrar and all the Principals graced the occasion and awarded the winners with certificates and cash prizes.



**Distribution of Certificates & Cash Prizes  
by Vice Chancellor**



### Prize winning entries



**Valedictory Ceremony of Speech Competition**

## Competition on Legal Rights of Women

The National Commission for Women, Government of India launched second nationwide competition for generating awareness about legal rights of women for ensuring that all sections of society are fully conversant with the laws and contribute effectively for their successful implementation.

In adherence to the same, the *School of General Education* conducted a competition for all the students of the University on the *Legal Rights of Women* on 6 December 2018 under the guidelines of UGC. The competition was held to assess and enhance awareness about the legal rights of women. It was sponsored by the *National Commission for Women*.

There was an overwhelming participation of 179 students from B.Voc and M.Voc. students of the various Schools of the University. On the basis of their performance, the top 9 students were selected for the first, second and third positions respectively.

All the winners were awarded certificates of merit and cash prizes by the Vice-Chancellor, Brig. Surjit Singh Pabla. The prize distribution ceremony was held in the presence of the dignitaries, the Principals and the faculty of various Schools.

The names of the winners are Monika Sarodia, Bimla Jat, Mohit Kalal, Anurag Shekhawat, Surbhi Pareek, Ashwani Dhankar, Vikash Kumar Naga, Md. Noor Islam and Ruchika Gupta.

The Vice-Chancellor in his address appreciated the students for their enthusiastic participation and encouraged the conduct of such events to promote awareness among them.



**Winners awarded Cash Prizes & Certificates**

## Students' Interview

Vikash Naga, Kamlesh & Mohit., the winners of  
*India Skill-2018*

### How do you feel after winning such great awards in the National Skills Competition?

*India skill-2018* gave us the right platform to showcase our skills and by winning medals in the very first year of participation we have proved that we are trained in a manner that we can face such competitions with full enthusiasm in order to earn medals for our University. Indeed, these medals not only increase our motivation to win but also fill us with great zeal for winning every competition in our lives ahead.

### How has the training at BSDU helped you to win these prizes?

As we know, "India Skill" is a huge platform and every state participates in it. So the level of competition was very high. BSDU has taught and trained us in a way that we were able to perform with accuracy and quality.

### What scope do you see for your future through such competitions?

The medal at the national level shows discipline, accuracy, quality and time management in our skills. All the mentioned factors are very important parameters for the reputed industries. During this competition we got an opportunity to interact with people from top wood work industries of India and we learnt that many of them offer jobs after participating at national levels. And also we are confident for a start-up in woodwork.

### How are your preparations for "World Skill" going on?

We have 6 months to train ourselves for this competition. We are trying our best to learn as many things as possible from our trainers. We are very hopeful to repeat the history by winning again some medals at *World Skill* for BSDU.

## Sun-The Super Hero

*Ms. Surbhi Pareek*  
(Student, M.Voc. Smart Power System)

*"If I had to choose a religion, the sun as a universal giver of life would be my God"*

*-Napoleon Bonaparte*

The *SUN* showers its blessings on the world in the form of **solar energy**. This energy in the form of heat and light supports the entire life existing on the earth. The sun is a store-house of abundant energy and provides us with the food we eat (photosynthesis), the water we drink (water cycle) and heat which is very much essential for our survival, in the absence of which the earth would freeze at -240°C. The sun drives the weather eco-system of the earth which translates into other energy sources like wind energy, tidal energy and biomass energy.

In addition to all these blessings, we are also blessed to have the sun as a very clean and environmental friendly source of generating electricity. The solar radiation showered on the earth for just one hour if harnessed efficiently would suffice the world's energy requirement for one full year.

Due to insufficient knowledge of the existing repository of fossil fuels (coal, petrol, diesel, etc.) and ignorance about their detrimental impact on the environment and living beings on earth, people used these fossil fuels to generate electricity. The reason towards the recent shift towards renewable sources of energy is primarily due to the depletion of non-renewable sources of energy at a fast rate, which may get exhausted by the end of the century.

Renewable energy sources are gaining global acceptance as a way of maintaining and improving living standards of human beings without harming the environment. These sources need not be stored anywhere in advance like the non-renewable sources of coal, diesel, petrol etc. They are continuous sources of energy in terms of availability and eco-friendly sources of energy generation. They are easily available in considerable quantities and are well suited to meet the energy demand in remotest locations.

Of all renewable sources of energy, solar energy is the only one that has gained a world-wide acceptance.

There are several advantages of using solar energy for electricity generation. It is very easy to install a solar plant for an individual on his own house rooftop or any other open area where there is abundance of solar radiations. Solar plants can serve homes that are too remote and solar home system can help to bridge the electrification gap in developing countries and with complete awareness of this technology everyone will have access to electricity in a very eco-friendly manner.

If electricity is generated at the user end, it can as well be shared with the grid and also with other users. Unlike solar energy, every renewable source of energy is not easy to be installed at domestic level. All such things can help in making the grid resilient to heavy blackouts. Electricity from solar energy is cheaper compared to other sources because solar plants are easy to maintain and once installed, its lifetime is about 25 years with proper maintenance. The payback period of a solar unit is about 5-6 years. Therefore, the solar power plant would play a vital role in meeting the energy demand of the world.

One more field that is adapting to huge innovations with the growth in solar energy production is the transportation system (Electric Vehicles - EV). The transportation system which is the biggest consumer of crude oil all over the world is witnessing a rapid change by switching to green energy utilisation worldwide. Since solar energy has gained worldwide acceptance due to its feasibility and reliability, solar energy and EV growth have become interconnected. By using solar energy, these electric vehicles can be charged at user end as well as at electric charging stations. Solar

power plants can also be installed in the electric charging stations as they are flexible enough to even be installed on car shed rooftops. If the solar unit of the EV charging station gets interconnected with the electric grid, it would serve to be cost effective per unit. These solar panels can also be mounted on the roofs of electric cars, trucks, buses and trains.

Solar energy is especially a blessing for those countries that are either on the Equator or near it. Most parts of India get sunshine for around 300 days in a year, thus making it a good source to generate electricity at a reasonable cost. Extensive research work is going on in this field to make solar power plants more reliable throughout the day, supported by efficient energy storage systems.

Solar energy systems supported by cost effective efficient storage systems is the need of the hour. Effective research providing suitable solutions to this problem shall greatly increase the scale of solar energy production and utilization.

## **Entrepreneurship Skills: An Essential Part of Education**

*Rajni Gupta*

*Student, B.Voc., School of Entrepreneur Skills*

Many countries face economic challenges in the areas of social and economic growth. Entrepreneurs and businesses form an essential part of society. India, being a developing country requires more and more successful young entrepreneurs to meet the growing needs of the country.

Entrepreneurship must be a part of education just like Science, Mathematics, Technology and Arts. An innovative way of thinking and a creative approach are what identify new opportunities and solve problems. It is restricted not only to the present time but finds applicability in the future. It is important for students to develop entrepreneurial thinking skills right from their school days.

Young students aspire to become self-employed and it is the responsibility of the education system and the parents to motivate these young aspirants to become entrepreneurs. It does not mean that every individual must turn into an entrepreneur but it is essential that each and every individual develops entrepreneurial skills in order to succeed in the various endeavors of life. Thus, it is vital to build entrepreneurship skills in students at an early age i.e. from their school going age itself.

## **Entrepreneurship**

*Shivani & Vishvendra Singh*

*Students, B.Voc., School of Entrepreneur Skills*

Entrepreneurship is the process of designing, launching and running a new business which begins as a small business, such as start-up company- offering a product or service for sale or hire. The people who create these businesses are called entrepreneurs.

An entrepreneur works on an idea to create a product or service that people will buy, by building an organization to support those sales and he is an individual who, rather than working as an employee, finds and runs a small business, accepting all the risks and rewards of the venture. The entrepreneur is commonly seen as an innovator, a source of new ideas, goods, services and business or procedures.

Entrepreneurship has been described as the “capacity and willingness to develop, organize and manage a business venture along with its risks in order to make profit.” It is both the study of how new businesses are created as well as the actual process of starting a new business – the term is used interchangeably. Some of the benefits of Entrepreneurship are:

- The freedom to pursue one's own vision
- The control and flexibility one can have over his\her own time
- The opportunity to learn and gain knowledge
- The sense of pride and fulfillment in accomplishments
- The confidence one gains in knowing about his\her capabilities
- Potential earnings exceeding a salaried employee
- Business owner reaps the full rewards
- Each new day is a challenge
- The chance to share your learning

The entrepreneurial potential of India is very large. India has experienced a record growth over the past decade. Imagine if India had more entrepreneurs, how fast would its growth and job creation then be!

## **Paper Presentations and Workshops attended by BSDU Faculty**

- Ms. S. Glory Swarupa, School of Entrepreneurship, presented a research paper at the International Conference on *Doubling the Income of the Farmers of SAARC Countries: Extension Strategies and Approaches*, on 20 September, 2018, Kathmandu, Nepal. The paper was co-authored by Dr. Ravi Kumar Goyal. The presentation was well received and generated good discussion about BSDU, Skill Development and Skill Education. The International Conference held on 20- 23 September was organized by Ministry of Agriculture and Livestock Development, Government of Nepal; International Society of Extension Education, India; Nepal Agricultural Extension Association, Agriculture and Forestry University, Nepal; Food and Agriculture Organization of United Nations; USAID / Kisan Second Project; MANAGE India and Agriculture Information and Training Centre, Nepal.
- A research paper titled *Marginalization of Individual Talents / Self-Image: A Narrative of Maya & Monisha in Anita Desai's Novels* was presented by Dr. Sangeetha

Noval , School of General Education at the International Conference conducted by Central University of Rajasthan, Ajmer. It was held on 15-16, Nov. 2018 on the theme *Moving Beyond the Margin: The Politics of Exclusion and Assimilation*. The paper was well received and appreciated by the chair as well as the audience.

- Dr. Sangeetha Noval and Dr. Prerna Srivastava, School of General Education attended a two-day *National Level Faculty Development Workshop* conducted by *ELT@I, Bhopal Chapter* on 24-25 September 2018, on *Digital Tools and Technology for ELT*. It was held at *The Bhopal School of Social Sciences*, Bhopal. The theme of the conference was to develop the course sites with multimedia resources and to encourage better understanding of the available ICT tools for teaching and learning English language. The workshop highlighted the significance of the ICT tools for the generation “Z” and emphasized its practice for teaching and learning English language across the globe.
- Mr. Kantaprasad, School of Automotive Skills presented a research paper titled *A Review on Opportunities in Thermionic Regeneration System in Hybrid Electric Vehicle* in an *International Conference on Mechanical, Electronics, Computer and Industrial Technology* at Medan, Indonesia. The conference was held from 12-14 Dec, 2018. The paper was appreciated and received well.

- **Non-verbal Communication.** A good non-verbal communication demonstrates confidence. Standing straight and making eye contact speaks about your honesty and straightforwardness. A firm handshake will add another plus to the personality. A good non-verbal impression can be a great beginning or a quick ending to your interview.
- **Be a Good Listener.** From the very beginning of the interview, the interviewer is giving you some important information either directly or indirectly. Listen carefully otherwise you may miss some useful information. Good communication skills also include letting the person know that you are listening to him. Observe your interviewer and match his style and pace. Speak in the same language as the interviewer. If you want to be a good speaker, first be a good listener.
- **Don't Talk Too Much.** When you are not prepared properly for the interview, you may ramble on aimlessly, sometimes talking yourself right out of the job. Prepare for the interview by knowing the job description and the company profile. Speak less, speak slowly, think before you speak and speak sweetly.

Preparing for an interview means preparing for life. Your future depends upon your presentation during the interview. It is the best example of marketing yourself. Keep yourself on your toes and be ready for an interview all the time. Just make it a habit and you will find it the easiest thing to do.

## Write-ups by Principals & Faculty, BSDU

### Tips for appearing in an Interview

*Col. (Dr.) Ravi Gosain,  
Provost*

In the Olympics, the difference between the first and the second is marginal, but the first is remembered and the second is forgotten. Similar is the case during interviews, the first is selected and the second is rejected. We all are actually being interviewed every-day. Following are some important tips which will be useful for any such occasion: -

- **Dress:** Always be properly dressed as it makes a good impression. Avoid shoddy or gaudy clothes. Always remember, you are not properly dressed unless and until you wear a smile on your face.
- **Sit Straight.** Sitting should be as easy and natural as is possible. Your sitting posture should reflect your alertness and receptive attitude.
- **Wearing of Ornaments.** Avoid heavy ornaments as much as possible. Keep it simple and elegant. Avoid ornaments like bangles and anklets as their jingling is distracting.

### Technical Skills needed in today's Computer Science and IT industry

*Dr. Kumkum Garg  
Dean*

According to the latest report from NASSCOM, the IT sector in the country may add 100,000 new jobs during the Financial Year 2019. The stated goal is to reach a \$1 trillion digital economy by 2022, for which we would need growth across all industries, established and new age companies, technology service companies and product companies, consumer internet as well as more adoption of digital across enterprise, government, and MSME in India. NASSCOM is now working with the government on reskilling IT professionals while improving employment opportunities, by preparing future workforce at colleges.

Today a degree in computer science is considered a smart career move for students wanting to make an impact in their career. There is an increasing awareness that skill sets in CS and IT are becoming highly pervasive. These graduates have some of the highest starting salaries. There is thus a huge demand for bright graduates to help transform areas ranging from computer programming to data infrastructure, to web development cyber security. But if these students are interested in pursuing a career in computer science, it is

important to stay up to date with the latest trends and skills required in this important field.

In the following sections, we look at some of the trends storming the tech industry today!

**Artificial Intelligence and Robotics:** The global robotics industry is forecast to be worth US\$38 billion by 2018 and a large portion of this growth will be based on investments in Artificial Intelligence (AI) – 'the study of how to make computers do what human beings routinely do today'. AI has seen a major revival in the last decade or so. Three factors have been responsible for this: cheaper storage, availability of large amounts of data and faster computers. Tech giants like Facebook, Google and IBM are investing huge amounts of money and resources into AI research. Many real-world applications of the technology are being developed, hence there is no dearth of specialists required in this field.

**Big Data Analytics:** Efforts to boost salaries and attract data science talents in this field are being made by every industry in this field. The availability of huge data sets, especially from social networking applications, has led industries from banking to healthcare to use this data to personalize and improve their services. It is known that only about 1% of this voluminous data is relevant and hence newer and more efficient techniques are being researched to process and render it useful.

**Technology-assisted education** makes use of computers and software to assist education and/or training, from pre-school up to higher education levels. According to a report by KPMG, the size of India's e-learning market is likely to grow to \$1.96 billion, second only to the US, which is likely to exceed \$48 billion by 2020. The use of Massively Open On-line Courses (MOOCs) has all of a sudden seen a meteoric rise in Universities. Blended and Flipped learning are also on the rise. Personalized instruction is also possible now for students with learning disabilities. Students can learn at their own pace and independently, and the teacher can devote more time to each individual. In India it has a huge and promising potential, given the large number of young people.

**Cyber security** According to a 2014 report, cyber security jobs in the US grew by 74% between 2007 and 2013 – more than twice the rate of IT jobs overall. In this hyper-connected world, where everything – from banking to dating and from entertainment to government working– is done on-line, data protection is no longer optional, for either individuals or nations. An acute need is felt to “collaborate and explore partnerships that will help develop the best ways to bolster a country's cyber security”. This is another area of computer science research and raises concerns about the shortfall in qualified graduates in it.

**Bioinformatics** The *Bioinformatics Market* is expected to reach \$12.8 billion by 2020. This involves the integration of computers, software tools and databases in an effort to address biological questions, especially about genomics and

proteomics. It is a major application of big data and builds enormous datasets of biological information for research purposes. It links big pharma and software companies, and offers good job prospects for computer science researchers and graduates interested in biology, medical technology, pharmaceuticals and computer information science.

All the skills mentioned above, as also many others in IT and non-IT skill sectors, have to be identified and nurtured through the combined and concerted effort of the Government, academia and industry. The policies and procedures for skill development and training, both theoretical and hands-on, have to be prioritized and efficiently implemented, if our youngsters have to be gainfully employed.

## Technology Trends Reshaping the HVAC Industry

*Prof. Mohanjit Singh Walia  
Principal, HVAC&R*

HVAC or Heating, Ventilation, and Air Conditioning System, is a unit in that is responsible for regulating the environment of a building. HVAC systems are common in most parts of the industrialized world. HVAC can be one of the biggest energy consumers in any facility. Current HVAC trends are geared toward lowering the amount of energy used to heat or cool a facility, while also making the process more environment friendly. Engineers and scientists are looking for new and different ways to enhance the HVAC landscape, the solutions to which can be found in enhanced technologies, renewable energy sources or even a complete reimagining of how an HVAC system should work.

What an HVAC does is both intriguing and intelligent, making it one of the many modern innovations that we have accepted as a part of life in the new millennium.

- **Smart HVAC:** The Internet of Things is growing, and HVAC trends are beginning to incorporate new capabilities which have the ability of remote controlling the HVAC system. New or added sensors in the thermostat, compressor or other areas can help regulate how the system should run in a more efficient and cost-effective style.
- **Sustainable Building Design:** There is a new movement referred to as green building design, green construction or sustainable building design. The building's HVAC system is a major component in sustainable building design, as heating and cooling systems are a major source of a building's energy consumption. Sustainable design has caused architects to rethink ventilation systems, using more natural airflow to reduce energy costs. It might also choose different building materials that keep the building at a more constant temperature to start with, reducing the need for high-powered HVAC. HVAC systems in

green buildings are likely to have alternative power sources as well.

- **DeVAP HVAC:** DeVAP stands for “Desiccant Enhanced Evaporative.” A desiccant is a substance that absorbs water from its surroundings. DeVAP HVAC systems cool the air by employing an evaporative cooling system. Water is run into a honeycomb like media. A fan then blows water through the honeycomb media, causing the water to evaporate. As the water evaporates, the air becomes cooled and is released into the system. DeVAP systems then use a desiccant to absorb the humidity from the air. This provides the same kind of cool and dry air that the current air conditioners offer. DeVAP systems use less energy to operate and use no harmful refrigerants.
- **Solar HVAC:** Solar HVAC systems can be installed in new constructions or retrofitted to existing buildings. These systems use solar panelling to absorb both heat (thermal energy) and light energy from the sun. For heating applications, the thermal energy is used to heat a fluid, usually a mixture of water and antifreeze, which then runs through a heat exchanger. This creates heated air that warms the building. If the building has an existing air conditioning system, it can be refitted with solar power. New applications might opt for a solar cooling system. These systems employ an evaporative cooling method, where the air is cooled simply by the evaporation of contained water.
- **Geothermal HVAC:** Geothermal HVAC systems consist of a system of pipes buried underground, called an earth loop. Water is run through underground pipes. As the water travels through the ground, it is heated (or cooled, depending on the time of year) by the ground's constant temperature. An indoor unit uses a fan, compressor and pump to deliver temperate air through the building.
- **School of HVAC&R @BSDU Jaipur:** Degree Courses in School of HVAC&R Skills are focused on key processes used in HVAC area, which pertains to learning of all features that promote efficient and fully integrated installation, commissioning, maintenance and service of the systems. The sole focus is on the betterment of training and upgrading skills of working manpower within HVAC domain.

Achievements of the School:

- Centre of Excellence established by Daikin at BSDU.
- Competency development training organized by Daikin for the trainers and students at the Daikin Centre of Excellence.
- All the Students enrolled for B.Voc. in HVAC&R placed for internships with stipend.

- Organized guest lectures on IOT and desiccant wheels.

## Right Skills for Right Jobs

*Principal & Team  
School of Automotive Skills*

### **Introduction:**

Right skill and right job is the equilibrium point for an employer and a potential employee to start their journey and this match is dependent on two aspects of work dynamics i.e. skill requirement and availability. Once these two aspects match, other associated factors such as knowledge, potential, experience etc., come into picture and decide the match between the employer and employee.

Skills and Employability go hand in hand. Skill gap is the real cause behind the high percentage of unemployable population in India and elsewhere. Skill gap also gives rise to several other socioeconomic challenges along with loss of resource in the economy. Worldwide, young people are three times more likely than their parents to be unemployed. In Greece, Spain, and South Africa, more than half of young people are unemployed, and jobless levels of 25 percent or more are common in Europe, Middle East, and Northern Africa. The International Labour Organization (ILO) estimates that 75 million young people are unemployed. This represents not just a gigantic pool of untapped talent, but is also a source of social unrest and individual despair.

### **Skill Gap and its Impact:**

Skill equation is derived from two factors, employment seekers and employable candidates. Set of Skills is the only differentiator between employment seeker and employable and the difference is termed as the skill gap. This skill gap indirectly leads to unemployment and skilling is the only solution to overcome this unemployment challenge. The situation becomes more critical when availability of required skills remains low. Such shortages are set to grow considering the current state of education and focus on skilling, and their impact is already biting organizations. This is particularly acute in some sectors and at higher levels where they are acting as an obstacle to growth.

The intent must be to provide students a platform to assess the current state of skill requirement from employer side and on the other hand help an employer assess skill availability through employability data.

### **Global Initiatives for Right Skills for Right Jobs**

Governments, employers' associations and trade unions around the world are working to improve the employability of workers, move young people into productive and decent work, and increase the productivity of enterprises through better quality and relevant training. The Skills and Employability Branch conducts comparative research and

provides policy guidelines and technical assistance to help constituents integrate skills development into national and sector development strategies. The ILO's (International Labor Organization) work with constituents focuses primarily on three areas: linking training to current labor market needs as well as anticipating and building competencies for the jobs of the future; building quality apprenticeship systems and incorporating core skills into training for young people; and expanding access to employment-related training in rural communities in order to improve livelihoods, reduce poverty, and equip women and men to work in the formal economy.

### ***A beginning in India to Align Skills to Jobs***

Skill development in India can be broadly segmented into Education and Vocational Training. The government has listed skill development as one of its priorities and aims to enhance participation of youth, seek greater inclusion of women, disabled and other disadvantaged sections into the workforce, and improve the capability of the present system, making it flexible to adapt to technological changes and demands emanating from the labour market.

Currently, skill development efforts in India are spread across approximately 20 separate ministries, 35 State Governments and Union Territories and the private sector. The policy framework governing the skill development ecosystem in India includes the Apprentices Act, 1961, the National Skill Policy and the National Skills Qualification Framework (NSQF).

The creation of the first-ever separate Ministry of Skill Development and Entrepreneurship took place in June 2014. It is conceived to encompass all other ministries to work in a unified way, set common standards, as well as coordinate and streamline the functioning of different organisations working for skill development. The Ministry of Skill Development and Entrepreneurship is entrusted to make broad policies for all other ministries' skill development initiatives and National Skill Development Corporation (NSDC). Mapping and certifying skills, market research and designing curriculum, encouraging education in entrepreneurship and making policies for boosting soft skills and computer education to bridge the demand and supply gaps are among the other goals. The government's recent skill gap analysis concludes that by 2022, approximately 109 million more skilled workers would be needed in 24 key sectors of the economy. This skill assessment clearly indicates the scarcity of skilled workforce in India who can take the jobs.

Taking cognizance of this, the government planned to establish skills universities. In March 2015, a Parliamentary Working Group was set up to draft a road map for setting up a skills university. One of the main recommendations of the group was to delegate setting up of such universities to State governments. Accordingly, several skills universities have been established in different States, including Rajasthan,

Haryana, Maharashtra, Madhya Pradesh, Gujarat and Odisha. The Rajasthan Institute of Leadership Development and Bhartiya Skill Development University in Jaipur were one of the first such universities to be set up along with Haryana Vishwakarma Skills University, Haryana, with Bhartiya Skill Development University following a unique Swiss dual mode of education to impart skills at global standards which includes skill education in 36 skill areas. The Parliamentary group also identified a number of challenges to establish skills universities, including different operational models, importance of autonomy as well as the need for creating a brand for such universities. Skill initiatives taken by government alone will not suffice the requirement of skilled manpower. In order to address youth unemployment, two fundamentals need to be in place: skill development and job creation. Clearly, employers need to work with education providers so that students learn the skills they need to succeed at work, and governments also have a crucial role to play, but there is little clarity on which practices and interventions work and which need to be scaled up. Most skills initiatives today serve a few hundred or perhaps a few thousand young people; we must think in terms of millions to meet the future requirement.

## **Importance of soft skills in Personal and Professional life**

***Prof. (Dr) Surat Singh  
Principal, School of General Education***

*85% of one's success at the work place is attributed to soft skills and only 15% to technical skills. (Harvard Study)*

Soft skills are the positive traits expected in any human being. They can be developed as habits and imbibed in one's character with practice. One may or may not be born with positive traits, but if one has the basic attitude, he/she can learn from ones' actions and environment.

Soft skills play a crucial role especially in the professional world as it matters how effectively one interacts with others. Hard skills like technical, managerial, legal, leadership, business and mathematical knowledge can be acquired through hard work and coaching, but only with continuous and multidisciplinary learning soft skills can be developed.

Personality traits like respect and regard for others, common sense, responsibility, integrity, sense of humour, optimism, personal habits, truthfulness, kindness, politeness, friendliness, punctuality, discipline, etc., are some of the components of soft skills.

### **Can Soft Skills be Developed?**

Certain skills can be developed by proper observation and consistent practice. One can be taught about what to communicate and how to communicate. One's basic behavioural tendencies will have its impact when the theory

is put into practice and that is when soft skills gain prominence. However, we do assimilate certain skills, which determine inter-personal relationships, at different stages of life depending on the work culture and environment of the workplace. These can be categorised as social grace, empathy, language, communication, team work, sociability, adjustability, negation, compromise, leadership etc.

One single skill is connected to many other related skills. The content and the manner of communication matters a lot. Language, body language, tone of speech, expression, concern about audience, ability to listen and understand, ability to find a solution, one's attitude and so many other skills play their roles. Exposure to various situations can help to develop these skills.

### **Importance of Soft Skills**

*9 in 10 employees believe that graduates with Soft Skills will become increasingly important.* (Survey by Talent Q).

Employees with good soft skills can have a significant impact on an organisation's ability to function effectively. People with soft skills are able to handle conflicts easily, perform competently under pressure and work proficiently as part of a team. For example, in sales-focused companies, persons with strong communication and teamwork skills will have a direct impact on customer experience as well as profits. Persons who possess soft skills tend to form more satisfying associations leading to a positive work culture for all.

Soft skills are necessary for a person to be a good human being as well as to succeed in his career. Declining moral values and advancement in technology, are a deterrent to the development of soft skills. One's qualification or status will not help if one does not interact effectively with others. Generally, it is said that hard skills may earn you an interview, but it is soft skills that will get you a job. According to the Human Resource Managers, the companies can grow better if they hire people with enhanced soft skills and then train them to develop their hard skills in the area of specialisation.

## **Interview Skills**

***Dr. Kiran Shekhawat***  
***Assistant Professor***  
***School of General Education***

An interview is a formal conversation between an employer and a prospective employee to evaluate qualifications with the specific purpose of filling a position within a company or an organization. The key to a successful interview is preparation and practice. Self-evaluation is important to articulate what one has to offer an employer. A person needs to have ample information about himself and the company he is opting for. The goal should be to effectively display

capability, confidence, enthusiasm, flexibility, resourcefulness and strong work ethics.

One must have information about the company before facing the interview and the best place to get this information is the company's website. It is quite possible that one may be asked questions regarding the company. Practicing beforehand makes one feel comfortable and relaxed during an interview. A list of anticipated questions could be made and practiced to enhance confidence. Regardless of the work environment, it is important to dress professionally for a job interview because how one is dressed can either make or mar the job interview. Always try to arrive at the interview location a little early as it gives time to determine and recollect ones' thoughts. In case one is delayed then call and let the interviewer know. Interviewers often make up their mind about a candidate in the first five minutes of an interview. One needs to be aware of the importance of both verbal and non-verbal communication.

Interviews scrutinize an individual not only for experience and job qualifications, but for manners, appearance, confidence, and a host of other qualities that are never addressed but are inevitably noticed. Therefore, the candidate should:

- Form an impression that he will prove to be an asset for the company
- Highlight relevant skills and reaffirm his interest in the position
- Focus on presenting a positive, enthusiastic tone while being cool calm and confident
- Describe weakness (if asked), mention lessons learned and steer away from negative descriptions
- Focus on general examples from his experience that demonstrate flexibility, adaptability, responsibility, progress, achievement, creativity, initiative, and leadership
- Exhibit a fine balance of confidence, professionalism and modesty, as attitude plays a key role in a successful interview
- Add a thank you note before leaving

In words of Roosevelt, *“The future belongs to those who believe in the beauty of their dreams.”*

# Precautionary Measures for Electrical Safety

*Prof. (Dr.) S. K. Jhajharia  
Principal, School of Electrical Skills*

Electricity can cause death or injury from electric shock, electric burn, fires or explosions of electrical origin and electric arcing. The passage of electric current through the body may cause muscular contractions, respiratory failures and fibrillation of the heart, cardiac arrest or injury from internal burns. Accidents involving electricity are always due to casual approach towards handling of appliances, lack of proper maintenance of electrical fittings and electrical equipments, less or superficial knowledge about installation and working of the appliance. In order to reduce the frequency of electrical mishaps one must take corrective measures as given below.

- Loose live wires should not be left outside the Switch Boards.
- Broken switch boards should be changed.
- If someone gets electric shock – switch off electricity from the mains.
- Move the casualty away from electrical wire with the help of a rope, a wooden piece, treat the burn with cold water and cover the burn with sterile gauze. Seek further medical treatment.
- In case of accidents caused by high voltage current, do not go near the casualty. Keep other by standers off the site and call for professional help.
- Regular checking of wiring, switches & Electrical appliances fitted should be done.
- Poor insulation should be checked.
- Improper earthing should be avoided.
- Tampering with low lying electrical fittings should not be done.
- Avoid leaving naked electrical wires hanging from the switchboards.
- Distribution board provided with Earth leakage circuit breakers (ELCBs) should be used. It serves as a protective device and avoids accidents.
- All fixtures/ appliances should be tested before using them.
- The wiring of the building should have proper earthing terminal connected to all plug sockets.
- Sparking, smell or any other malfunction should be reported immediately.
- Do not overload circuits.
- Avoid temporary electrical connections.
- Don't use damaged Cables which can lead to the risk

of electric shock.

- It is recommended that no extension lead be more than 15 feet in length.
- Cables should not be joined without using proper insulating tape.
- Do not lay electrical cords across halls or passage.
- It is not advisable to use double adapters without over load protection.
- Always follow manufacturer's instructions before using electrical equipment.
- Proper earthing of all the electrical equipment must be done.
- All appliances must have proper plugs. Naked wire must not be plugged in.
- All electrical repair work or installation should be carried out by qualified electricians only.
- Rubber gloves or rubber soled shoes must be worn at the time of electrical installation or repair.
- Proper three pin plug points with the automatic liner safety shutter must be used.
- Loose and old electric fittings can cause short circuit leading to break out of fire. Therefore, proper action to be taken.
- Electrical wiring and line faults should be checked frequently to avoid malfunctioning.

## Always remember

- Do not press any electrical switch with wet hands or wet feet. One may get an electrical shock.
- Do not press an electrical switch with bare feet. Put on your shoes or slippers with rubber sole.
- In case of sparking in electrical switchboards, inform the concerned person immediately.

Never throw water on a sparking electrical switch board or electrical equipment.

## BSDU- knowledge Resource Centre- KRC (Library)

The Knowledge Resource Center (Library) of Bhartiya Skill Development University (BSDU) Jaipur was established in October 2016. The goal of KRC is to support the Skill Programs of BSDU. The library has implemented an Integrated Library Software “KOHA” in June 2016 for automating the library services. In September 2017, KRC started functioning as an automated library by computerizing acquisition of books, generating barcode and maintaining metadata of information resources. It started providing automated circulation services like

issue/return of books and web based search facility by OPAC.

The collection of KRC is increasing day by day, based on the requests of the faculty, trainers and students of BSDU. Presently, it has a collection of 17,450 books, several



journals and magazines of different disciplines, leading newspapers, CDs & DVDs and Transparency sheets along with Wall Charts. In this collection 13,000 plus books are related to Skill development provided by National Instruction Media Institute, Chennai, with 400 titles of 26 sectors covering Manufacturing, Automotive, Electrical Electronics, Agriculture, Mason, Refrigeration and Air Conditioning, Plumber, Carpentry Welder, Wireman, Turner, Fabrication, Hospitality, Apparel, Garment Making, Textile, Retail etc. Rest of the books consists of 1287 titles in different disciplines, such as General Education, Agriculture, Chemistry, Automotive, Physics, Computer Science, Construction, Economics, Electrical, Management, Entrepreneurship, Literature, Environment Science, Fisheries, Fitter, Geography, Mathematics, History, Manufacturing, Political Science etc.

In March 2018, KRC subscribed to the database "EPWRF" for time series data in socio-economic research and analysis. KRC has DELNET membership for inter library loan. The working hours for KRC are from 8.30 a.m. to 5.30 p.m., and it is closed on Sundays, and public holidays. All the library related services are operational throughout the working hours on all days.

*Dr. Bhoop Singh*  
*Librarian*

## Training and Placement Desk

The Placement Cell organizes career guidance programs for all the students, starting from the first year itself. The cell arranges training programs like Mock Interviews and Group Discussions for students. It invites HR Managers & Technical Experts from different industries to conduct training programs for students. The Cell also provides career counselling and

guidance to its students. Special focus is given to encouraging the students for entrepreneurship.

### Session on PI and CV writing by Focus Academy

BSDU offers a unique B. Voc. Program wherein the students of even semesters are placed in the industry for hands on training. The TPO is pleased to announce the status of the students who have been successfully placed in the industry in their respective disciplines.

#### ➤ Summary of Training and Placement Cell

- Total students admitted: - 320 Students (Winter Batch 2015- Winter Batch 2017)
- Total students Placed: - 212 Students (B. Tech, ITI, Diploma)
- Total Students in Internship: - 83 Students (10+2, ITI, Diploma)
- Students Left: - 25 Students
- Total Opportunities: - 70+ (Including Governments Sector Opening)

#### MoUs

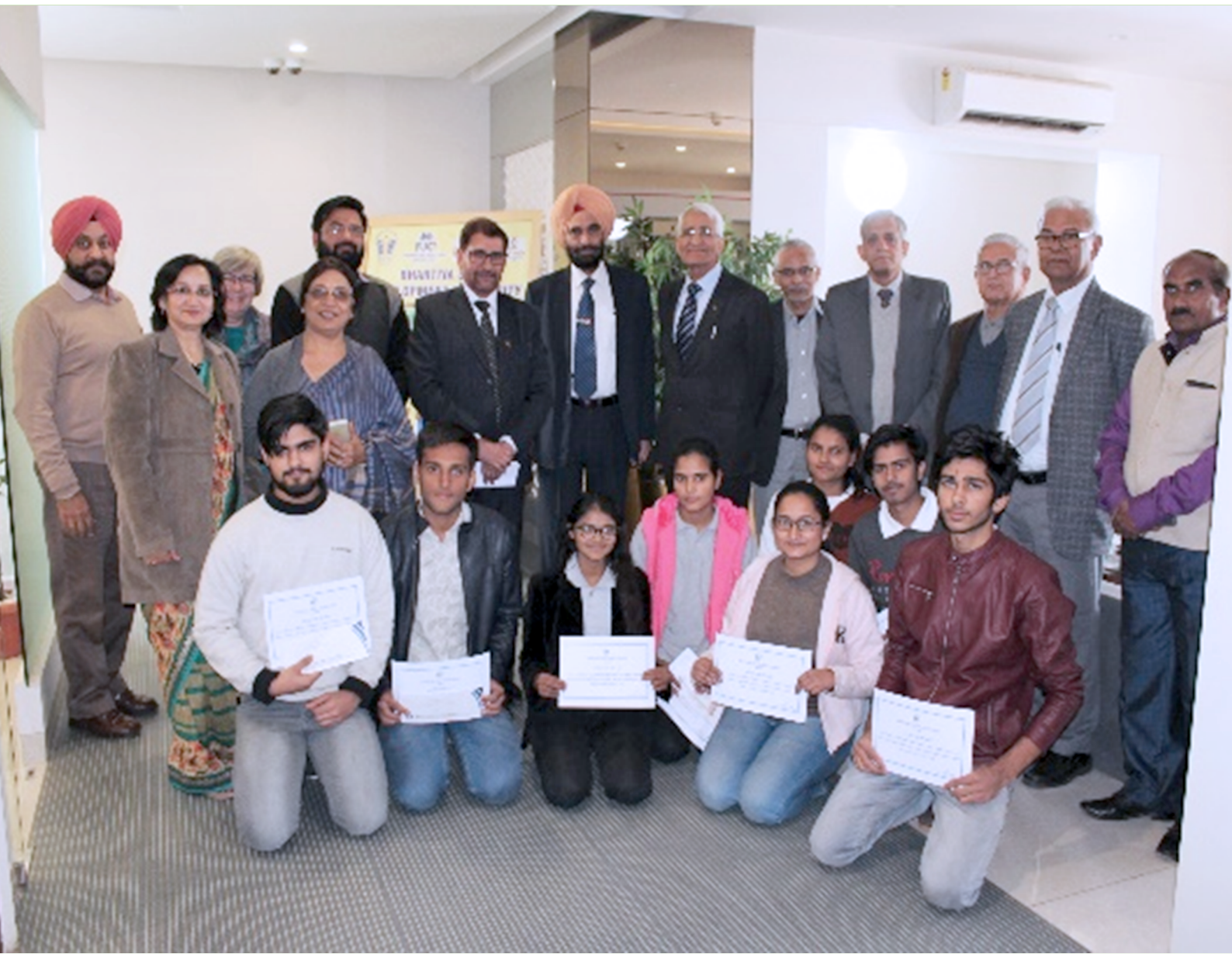
- SRK Modular Furniture Co. (MoU for Carpentry Skills School)
- Agrawal Metals Works (MoU for Manufacturing Skills School)
- Anand Engineering Works (MoU for Manufacturing Skills School)
- Bram Woodcrafting Studio (MoU for Carpentry Skills School)
- Nirmal Glasstech Industries (MoU for Manufacturing Skills School)

#### \* 50+ MoUs signed

#### Organized and Coordinated Training of the Employees

- Manipal University Jaipur - Coordinated special training with MUJ on Electrical Discharge Machining & CNC Machine Tools Machine Tools.
- SG Engineering Works - Organized Industrial visit for School of Manufacturing Skills. On 3 Oct. 2018, the SMS team visited the S G Engineering Works.
- SRK Modular Furniture - Organized Industrial visit for the School of Carpentry Skills. On 31 Aug. 2018, the students visited SRK Modular Furniture.
- Ceratizit India Pvt. Ltd. - Organized a training programme for GETs (freshers) for the current year.
- Havells India Limited - Organized Industrial visit for the School of Electrical Skills. On 22 Nov. 2018, the students visited Plant at Havells India Ltd, Alwar.

*Girishma Parihar,*  
*Training & Placement Officer*



### **Editorial Team**

Prof. Surat Singh, Principal, School of General Education  
Ms. Vijayalakshmi Bhat, Asst. Professor, School of General Education  
Dr. Sangeetha Noval, Asst. Professor, School of General Education  
Ms. Deepraj Walia, Asst. Professor, School of General Education  
Dr. Perna Srivastava, Asst. Professor, School of General Education  
Dr. Rakesh Choudhary, Asst. Professor, School of General Education  
Dr. Kiran Shekhawat, Asst. Professor, School of General Education

### **Secretarial Assistance**

Subedar Gopal Singh