



BHARTIYA SKILL DEVELOPMENT UNIVERSITY JAIPUR

NEWSLETTER

SCHOOL OF GENERAL EDUCATION



Editor's Desk

Welcome again to our 7th issue of the Newsletter!

This year too like the previous one has yet again been a year of changing and adapting to the new challenges posed by the pandemic, nevertheless, the students, the faculty and the management of BSDU have managed this admirably through the virtual platform.

It is the time we have begun to look forward towards welcoming students in the upcoming academic session with improved learning pace and stamina developed as a result of learning in the past months focused absolutely on empowering them with desired skills and knowledge.

In addition to the regular teaching- learning activities, the faculty/trainers of BSDU have exhibited a high level of engagement in multifarious activities maximising learning opportunities and social-benefit at large.

This issue of the newsletter will tour you to the glorious activities held at BSDU in the past six months mirroring the seamless dedication of the BSDU fraternity in addition to the articles grabbing your attention.

We extend our immense thanks for your help and support in bringing out this Newsletter!

Dr. Sangeetha Noval
Head, School of General
Education



Skilling, Reskilling and Upskilling: Need of the Hour

Mr. Jayant Joshi
Chairman Trustee
RJCT



Congratulations BSDU on bringing out the 7th issue of the Newsletter! During the past one and half years, the world has witnessed a drastic economic slowdown due to the pandemic, COVID-19, completely disrupting the socio-economic landscape of our country too. The global crisis has forced humans to live in the unprecedented times battling to survive. However, let us not forget that with resilience and determination we can rebuild ourselves rationally and critically with a greater impetus. This calls us to make ourselves future-ready in terms of both our survival and sustenance. While our survival demands awareness and caution about the prevailing health hazards and their prevention, our sustenance calls to hone our skills and competence so as to improve the trade and commerce for worldwide economic growth and development. It is mandatory that we skill, reskill and upskill ourselves relevantly to be able to contribute meaningfully towards the growth and advancements of the changing world. Rapid industrialization and technological advancements have highly changed and impacted the industrial landscape thus compelling the government, industry, as well as the academia to focus on developing skills of our young students suiting the current scenario. This calls for a revolution in the educational system which has to shift its focus from mere standardization of qualification to customization of skills relevant to the job requirements.

The lack of conformity between what is taught in classrooms and what is required by the industry has been pointed out by the industry leaders as the biggest hurdle in making the youth industry-ready. Based on the premise 'Doing is Learning', a vocational degree renders an in-depth practical knowledge of working in an industrial set-up, making learners competent and industry-ready. Undoubtedly, the students exposed to vocational/skill training programs possess the credentials and training required to get started in their chosen career path and would be at a distinct advantage when it comes to seeking employment.

Considering the evident shortage of skilled personnel, the Government of India has increased its focus on modernisation of formal vocational education and training in the country. Skill-Development has become one of the top concerns of the Indian government, resulting in state policies and related schemes to upgrade and develop Skill Education.

Fortunately, the New Education Policy 2020 too envisions a renewed focus on promoting skill-based education aiming at a transformation of our young work-force into palpable global resources. The day is not far when the new generation of educated and skilled people with their competitive edge and competence would help India transition to a self-reliant and a developed economy.

It is worthy to note that the present educational pattern followed at BSDU is highly aligned with the New Educational Policy 2020, rolled out recently by the Government of India. It is indeed a moment of pride that our esteemed founders Dr. Rajendra Kumar Joshi and Mrs. Ursula Joshi, the pioneers in Skill Education, envisioned the dire need of Skill Education in India and established this exemplary University for skilling the youth of our country.

I congratulate BSDU for standing tall to its mission and wish it a huge success in achieving the dreams envisaged by our beloved **Dr. Rajendra Kumar Joshi** and **Mrs. Ursula Joshi**!

Significant Activities @ BSDU

Visit of Students to the 132KV Substation

As a part of industrial tours and training programs for students, the School of Electrical Skills organized a visit of students to the 132KV substation at Champapura, Jaipur on 22 January 2021.



In this industrial visit, the students of 3rd and 5th semesters experienced and explored the industrial ambience. The trip rendered them an understanding of the practical perspective of working in real situations.

Visit of the Delhi Skills and Entrepreneurship University



It is a matter of honour that a team from the *Delhi Skill & Entrepreneurship University (DSEU)*, a set-up of the Govt. of Delhi, visited the University on 29 January 2021 to get insights into the exemplary model of Skill - Education followed at BSDU. The team comprised eminent members from the University viz. Prof. Neharika Vohra- Vice-

Chancellor, Prof. Snigdha Pattanaik- Pro- Vice Chancellor, and fellow members -Ms. Ankita Arya, Ms. Arushi Singh and Ms. Punya Sinha.

MoU @ BSDU

An MoU was signed on 11 January 2021 between BSDU and Tourism and Hospitality Skill Council (THSC) New Delhi for Skill based Training, Education, Research & Development.

A Gesture of Charity@ BSDU: Distribution of Clothes to the Underprivileged



Handsome is that handsome does! Bhartiya Skill Development University, sensitive to its responsibility towards community welfare, organized a charitable event in which clothes were donated to the needy at Bagru Kachchi Basti on 10 February 2021. More than 60 people including children and the elderly benefitted from this humane deed carried out under the mentorship of the President Prof. Achintya Choudhury and Registrar Dr. Susheela Sharma. It was a collective contribution of all Principals, faculty, staff members, research scholars and students of the University which brought smiles on the faces of the underprivileged.

Invited Talk on Energy Swaraj Yatra



The School of Electrical Skills organized an Expert talk on Energy Swaraj Yatra on 22 February 2021. The renowned expert, Dr.Chetan Singh Solanki, Professor from IIT-Bombay shared his experiences and made the students and faculty aware of the objectives of the Energy Swaraj Yatra being run for the past 10 years in the different states of India.

A 4- Day Workshop for Students on Soft- Skills



Committed towards the holistic development of students, the School of General Education in coordination with the faculty from the various Schools conducted a four-day workshop on Soft-Skills training for all the students of BSDU. The workshop was conducted from 23 February – 26 February, benefitting 400 students divided in 10 batches. The intensive training programme focused on the most crucial topics for students' personal and professional success viz. Importance of Soft Skills, Interview Skills, E-mail & Telephone Etiquette, How to Present Yourself Professionally, Time Management, Stress Management, Verbal & Non-Verbal Communication, How to be a Good Leader & Master the Art of GD, Presentation Skills, Public Speaking- (EQ & Role Play).

Sports Week 2021 @ BSDU

All work and no play makes Jack a dull boy! Considering the interest of students and to inculcate sportsmanship, BSDU organized the *2nd Annual Sports Championship* for the students of the University, extending from 26 February to 6 March 2021. A sports council comprising Mr. A.K Singh, Dr. C.P. Sharma and Dr. B. K Jha was constituted to plan, organize and execute the various indoor and outdoor sports competitions. The new campus as well as the existing campus were used as venues for different activities suiting the requirement of the category of the event.



The Sports - Meet was opened in the presence of the President, the Registrar, all the faculty, trainers and students of the University. The opening Badminton match was played between Dr. Mushtaq Ahmed, Principal, School of Hospitality and Tourism & Office Administration and Mr. Jitendra Mathur, Chief Trainer, School of IT & Networking, in which Dr. Mushtaque was declared the winner of the match.

Various competitions were held, in which the students and faculty exhibited their enthusiastic and zealous participation. The closing ceremony was conducted on the sprawling grounds of the Old Campus in the presence of Mr. Jayant Joshi, the Chairman Trustee RUJCT, Mr Abhishek Joshi-Director, RUFIL, the patron of the event, the

President, the Registrar, all the Principals, Faculty, Trainers and Students.

The closing Volley- Ball match was played between the teams *Jaguars* and *Cheetas* and the team Cheetas were declared winners of the match. The team Jaguars were the over- all winners who bagged the glorious trophy of the Sports Championship. The ceremony ended with prize distribution and vote of thanks.

The following were the winners and runners of the sports event:

BSDU Annual Sports Championship List of Winners/ Runner Ups

| 100m Race | | | |
|-----------------|-------------------|-----------|--------------------|
| 100m Girls | | 100m Boys | |
| 1 | Roshan | 1 | Sanskar Khandelwal |
| 2 | Priya Rajput | 2 | Dharamchand Jat |
| 100m Staff Male | | | |
| 1 | Iqraj Nabi | | |
| 2 | Gori Shankar Soni | | |

| 200m Race | | | |
|------------|--------------|-----------|--------------------|
| 200m Girls | | 200m Boys | |
| 1 | Priya Rajput | 1 | Sanskar Khandelwal |
| 2 | Roshan | 2 | Rahul Soran |

| 400m Race | | | |
|-----------------|------------------------|-----------|----------------------|
| 400m Girls | | 400m Boys | |
| 1 | Priya Rajput | 1 | Dharamchand Jat |
| 2 | Sonu Swami | 2 | Omprakash Rajpurohit |
| 400m Staff Male | | | |
| 1 | Gajendra Singh Rathore | | |
| 2 | Hemraj Jat | | |

| 1500m Race | | | |
|------------------|------------------------|------------|----------------------|
| 1500m Girls | | 1500m Boys | |
| 1 | Priya Rajput | 1 | Dharamchand Jat |
| 2 | Rajni Gupta | 2 | Omprakash Rajpurohit |
| 1500m Staff Male | | | |
| 1 | Gajendra Singh Rathore | | |
| 2 | Umesh Prajapat | | |

| Long Jump | | | |
|------------------------|---------------|----------------------|------------------------|
| Long Jump Girls | | Long Jump Boys | |
| 1 | Priya Rajput | 1 | Sanskar Khandelwal |
| 2 | Sonu Swami | 2 | Mahendra Prajapat |
| Long Jump Staff Female | | Long Jump Staff Male | |
| 1 | Surbhi Pareek | 1 | Gajendra Singh Rathore |
| 2 | Mona Joshi | 2 | Hemraj Jat |

| Triple Jump | | | |
|-------------------------|--------------------|-------------------------------|------------------------|
| Triple Jump Boys | | Triple Jump Staff Male | |
| 1 | Sanskar Khandelwal | 1 | Gajendra Singh Rathore |
| 2 | Mahendra Prajapat | 2 | Umesh Prajapat |

| Shot put | | | |
|----------------------------|------------------------|----------------------|----------------|
| Shot put Girls | | Shot put Boys | |
| 1 | Sonu Swami | 1 | Abhishek Kumar |
| 2 | Priya Rajput | 2 | Abhishek Verma |
| Shot put Staff Male | | | |
| 1 | Gajendra Singh Rathore | | |
| 2 | Iqraj Nabi | | |

| Discus Throw | | | |
|--------------------------------|------------------------|--------------------------|----------------------|
| Discus Throw Girls | | Discus Throw Boys | |
| 1 | Priya Rajput | 1 | Omprakash Rajpurohit |
| 2 | Rajni Gupta | 2 | Rahul Soran |
| Discus Throw Staff Male | | | |
| 1 | Gajendra Singh Rathore | | |
| 2 | Gori Shankar Soni | | |

| Javelin Throw | | | |
|---------------------------------|---------------------|---------------------------|-------------------|
| Javelin Throw Girls | | Javelin Throw Boys | |
| 1 | Monu Swami | 1 | Anil Choudhary |
| 2 | Priya Prajapat | 2 | Mahendra Prajapat |
| Javelin Throw Staff Male | | | |
| 1 | Yatendra Singh Hada | | |
| 2 | Iqraj Nabi | | |

| Chess | | | |
|-------------------------|-----------------|-------------------|-----------------|
| Chess Girls | | Chess Boys | |
| 1 | Rajni Gupta | 1 | Dushyant Khichi |
| 2 | Chanchal Sain | 2 | Aman Thakur |
| Chess Staff Male | | | |
| 1 | Pawan Choudhary | | |
| 2 | Shubham Rathor | | |

| Table Tennis | | | |
|------------------------|----------------|----------------------|-----------------|
| TT Girls | | TT Boys | |
| 1 | Sapna Saini | 1 | Deepak Sangwan |
| 2 | Riya Sharma | 2 | Dushyant Khichi |
| TT Staff Female | | TT Staff male | |
| 1 | Sumitra Singar | 1 | Mushtaq Ahmed |
| 2 | Nikita Singh | 2 | Jitendra Mathur |

| Badminton | | | |
|-------------------------------|-----------------------|-----------------------------|-----------------|
| Badminton Girls | | Badminton Boys | |
| 1 | Akansha Priya Darshni | 1 | Aashish Sharma |
| 2 | Sapna Saini | 2 | Vishal Singh |
| Badminton Staff Female | | Badminton Staff Male | |
| 1 | Sumitra Singar | 1 | Pradeep Chouhan |
| 2 | Deepmala Singh | 2 | Tanuj Narula |

| Basketball | | | |
|----------------------------|-----------------------|------------------------|---------------------------|
| Runner Up (Jaguars) | | Winner (Tigers) | |
| 1 | Abhishek Verma (Cpt.) | 1 | Pranjal Maheshwari (Cpt.) |
| 2 | Ashish Sharma | 2 | Gori Shankar Soni |
| 3 | Anurag Shekhawat | 3 | Iqraj Nabi |
| 4 | Sunil Khandal | 4 | Sumit Gour |
| 5 | Akash Mundotiya | 5 | Pawan Choudhary |
| 6 | Lakhan Sharma | 6 | Shyam Anand Chaturvedi |
| 7 | Sumit Sharma | 7 | Amar Singh Shekhawat |
| 8 | Abhijeet Pareek | 8 | Gajendra Singh Rathore |
| 9 | Tushar Mandal | 9 | Rajesh Saini |

| Cricket | | | |
|---------------------------|------------------------|-------------------------|-----------------------|
| Runner Up (Tigers) | | Winner (Jaguars) | |
| 1 | Pradeep Singh Chouhan | 1 | Anil Choudhary (Cpt.) |
| 2 | Bhagirath Choudhary | 2 | Vikram Choudhary |
| 3 | Pranav Singhal | 3 | Saurabh Saini |
| 4 | Abhimanyu Kumar | 4 | Dharmchand Jat |
| 5 | Krishan Sharma | 5 | Dinesh Mundotiya |
| 6 | Gajendra Singh Rathore | 6 | Akash Mundotiya |
| 7 | Iqraj Nabi (Cpt.) | 7 | Rahul Soran |
| 8 | Pranjal Maheshwari | 8 | Lakhan Sharma |
| 9 | Gori Shankar Soni | 9 | Ashish Sharma |
| 10 | Satyendra Singh | 10 | Abhishek Verma |
| 11 | Sheetal Jain | 11 | Sanskar Khandelwal |
| 12 | Shitanshu Sapre | 12 | Deepak Sanchoriya |
| 13 | Hanuman Jat | 13 | Sahil Fogat |
| 14 | Mukesh Kumar Sharma | 14 | Hemraj Kumawat |
| 15 | Bhagwan Sahai Bunkar | 15 | Anurag Shekhawat |

| Volleyball | | | |
|----------------------------|--------------------|-------------------------|-----------------------|
| Runner Up (Jaguars) | | Winner (Cheetah) | |
| 1 | Anil Choudhary | 1 | Deepak Sangwan (Cpt.) |
| 2 | Tarun Ranwa (Cpt.) | 2 | Sunil Naga |
| 3 | Rahul Soran | 3 | Yash Choudhary |
| 4 | Sahil Fogat | 4 | Himanshu Jangid |
| 5 | Sanskar Khandelwal | 5 | Kishan Kumar Sharma |
| 6 | Prakash Kumar Jat | 6 | Parduman |
| 7 | Ishwar Shekhawat | 7 | Premchand |
| 8 | Dharamchand Jat | 8 | Hindu |
| 9 | Abhishek Verma | 9 | Vishal Gautam |
| 10 | Lakhan Sharma | | |

Overall CHAMPIONS – JAGUARS



Women's Day Celebrations



As a mark of respect towards women, this year too BSDU celebrated the International Women's Day with pomp and grandeur on 8 March 2021. All the female employees of the University, including the Swiss employees, trainers, students and the house keeping staff attended the programme. Dr. Susheela Sharma, Registrar BSDU was the chief guest of the programme. The President Prof. Achintya Choudhury on the occasion encouraged all the females to follow the path of independence and insisted to follow the theme of the International Women's Day 2021– Choose to Challenge as Challenges Bring the Desired Change. Dr. Susheela Sharma, Ms. Marrietta Nuessli, Dr. Sangeetha Noval, Dr. Ritu Tak including many others expressed their thoughts on woman empowerment and liberation from the stereotype roles of the females. All the faculty, students and the house keeping staff showcased their talents such as poetry recitation, singing, dancing, etc. in the programme. The celebration came to an end with refreshments.

Covid Awareness Drive



The School of Health Care and Paramedics organized an Awareness and Mask Distribution drive on 12 April 2021 at the BSDU campus with respect to the ongoing pandemic - COVID -19. The School sensitized the staff and students with the COVID-19 safety guidelines and made aware about its symptoms, the required hand hygiene practice, the social distancing criteria, importance of masks and also the correct way of wearing as well as handling them. In addition, all employees are provided with a fresh mask being distributed every morning and ensured that they sanitize their hands at regular intervals. The School continuously monitors and ensures that the staff and students follow the guidelines and remain safe and healthy.

Intra-School Activities for Students

The School of Electrical Skills organized various intra-school activities for students from 15 May 2021 to 04 June 2021. The students registered an enthusiastic participation in the contests on Motivational Speech, Photography, Quiz Contest etc. The activities were coordinated by the trainers of the School.

Student Achievement

Jugal Kishor Khatri, a student pursuing B. Voc. 4th Sem. in the School of Hospitality & Tourism Skills was selected for a Live Recipe Show on Amul's Facebook page on 18 May 2021.



He also had the privilege of participating in reputed cookery shows and competitions organized by the famous Fabina Group & Cookery Show by Galaxy Rice.

Seventh Meeting of the Board of Management

The seventh meeting of the Board of Management was held on 21 May 2021. The Chairperson, Mrs. Ursula Joshi presided over the meeting which was held in the online mode. The points discussed included introduction of new Programmes, review of continuance of some existing programmes, admission strategies etc.

Career Development Program for JCB Employees

It is a matter of pride that the Industrial Relation Section organized an 18- month Career Development Program for the employees of the reputed concern of JCB. The training program was inaugurated virtually on 2 June 2021 in the presence of the delegates from both the organizations. Mr. Ajay K. Patil, Business Unit and Site Head, JCB Jaipur Plant and Prof. Achintya Choudhury, President, BSDU motivated the trainees to gain the maximum from the training programme.

Free Vaccination Drive at BSDU

A free vaccination drive to vaccinate the employees of all the esteemed concerns of RUJ group viz- BSDU, Woodcraft, R.S. India and RUFIL was held on Monday, 14 June 2021 at the University campus from 9 a.m. to 4 p.m. 297 employees of the aforementioned concerns availed the facility and got vaccinated with the Covishield at the campus.



A team of 11 health workers from Manipal Hospital assisted to conduct the drive. Considering the safety protocol, it was organized in a spacious mess area of the University.

We extend our immense gratitude and thanks to our Chairperson, Mrs. Ursula Joshi for the benevolent gesture!

The 1st Academic -Council Meet

It is noteworthy to mention that the first Academic-Council Meeting of the University was held virtually on 16 June 2021. Various academic issues pertaining to the new courses to be initiated and modifications in the existing courses were discussed and granted permission to be implemented.

Completion of Doctoral Thesis

It is a historic moment for the BSDU Research and Development Cell, that the first two scholars of the University completed their doctoral research and successfully defended their theses, becoming eligible for the award of Ph. D. degrees.

- Ms. Mahak Bhatia, School of General Education submitted her thesis on the topic- *Optimal Crop Allocation in Rajasthan Farming – Agriculture Skills Approach* under the supervision of Cdr. (Dr.) Anil Rana in the discipline of Mathematics. The expert, Prof. (Dr.) Suraj Rane, College of Engineering, Farmagudi, Ponda, Goa, conducted the viva-voce on 18 June 2021.
- Ms. Kritika Tekwani, School of Office Administration Skills pursued her research under the supervision of Cdr. (Dr.) Anil Rana and Dr. Rinku Raghuvanshi as Co-Supervisor in the discipline of Management. Her research was titled as *Impact of Goods and Services Tax Implementation on Exporters of Handicrafts in Jaipur*. The expert Dr. C. J. Rajendra Prasad, Symbiosis Skills and Professional University, Pune, Maharashtra conducted the viva-voce on 19 June 2021.

Submission of the Doctoral Thesis

Two scholars- Ms. Shashi Sharma and Ms. Antima Sharma presented their pre-synopsis seminars successfully and submitted their theses for evaluation.

Inauguration of the Mega Event - Skill Carnival @BSDU

It was a moment of pride for BSDU when the Hon'ble Chief Guest, Dr. Niraj Kumar Pawan (IAS) Chairman, RSLDC & Secretary Labour, Employment, Skill & Entrepreneurship, Factory & Boiler Inspection & Medical & Health Services (E.S.I) Department inaugurated the Skill Carnival scheduled from 21 June-15 July 2021. He declared the Skill Carnival open after his enlightening keynote address on Skill Development on 21 June 2021. Prof. Achintya Choudhary, President BSDU, in his inaugural address emphasized on the *Reimagining Youth Skills for Future of Work*. He stressed the importance of proper education, vocational training and lifelong learning which serve to be the source of employability and a way to contribute to society. He underscored the shift from the vicious cycle of low skills to virtuous circle of higher skills. Dr. Susheela Sharma, Registrar, released an E-Skill Quiz on the occasion for the participants. It was followed by a special address by Mr. Sourabh Mishra, CEMCA, who detailed the scheduled activities of the Carnival. The inaugural session of the Skill- Carnival came to an end with the vote of thanks proposed by Dr. Rajdeep Deb, Head Admissions & Principal, School of Entrepreneurship Skills.

Poetry Writing Competition

The School of General Education organized a Poetry Writing Competition for all the students of the University under the aegis of the National Mega Fest of *Bharat ki Azadi ka Amrit Mahotsava*. The idea behind this *Mahotsava* scheduled to be celebrated from 12 March 2021 to 15 August 2023 is to create a vision for India@ 2047. The competition was organized both in Hindi and English languages on the theme of patriotism. The School received a good number of entries from the students of various semesters and after a scrutiny, the jury selected the winning entries.



List of Winners

| Category : Hindi | | |
|--------------------|------------------------|---|
| Awards | Name of the Contestant | School/Semester |
| First Prize | Shubhanshu Kumar | School of Manufacturing Skills/ B.Voc. I |
| Second Prize | Saurabh | School of Health Care & Paramedics/B.Voc. IV |
| Third Prize | Seema Nitharwal | School of Health Care & Paramedics/B.Voc. III |
| Category : English | | |
| Awards | Name of the Contestant | School/Semester |
| First Prize | Deepak Sangwan | School of Automotive Skills/ B.Voc. V |
| Second Prize | Sohail Khan | School of Automotive Skills/B.Voc. I |
| Third Prize | D. R. Vaibhav | School of IT/Networking/B.Voc. I |

Papers Presented in Conferences/ Seminars/Symposia

| Presenters | Title of the Paper | Venue & Date |
|---|---|--|
| Mahipal Bukya, Pancham Kumar and Rajesh Kumar | On Grid Solar Photovoltaic Power Plant Analysis under PVsyst simulation Software Platform | Conference on Flexible Electronics for Electric Vehicles (FlexEV-2021), Manipal University Jaipur, March 18-19, 2021 |

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|---|--|---|
| Manisha Sheoran, Pancham Kumar , Susheela Sharma | Cost Benefit Analysis of 160 KW Grid Integrated Solar Photovoltaic Power Plant | Conference on Flexible Electronics for Electric Vehicles (FlexEV-2021), Manipal University Jaipur, March 18-19, 2021. |
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| Rakesh Choudhary , Md Faisal Md Basir, Muhammad Bilal and Kottakkaran S. Nisar | Numerical and sensitivity analysis of MHD bioconvective slip flow of nanomaterial with binary chemical reaction and Newtonian heating | Heat Transfer (Wiley) (Scopus, ESCI, WoS, Q2), 2021, 03, https://doi.org/10.1002/htj.22132 |
|--|---|--|

Book/Paper Published by Faculty

| Author | Title of the Paper/Book | Publisher/ Journal, Year, ISSN/ISBN |
|--|---|--|
| Pancham Kumar and Mahipal Bukya, | Fuzzy Logic Controlled Harmonic Reduction Technique | Lambert Academic Publishing, Europe, May 2021, ISBN: 978-620-3-85368-1. |
| Pancham Kumar , Amit Soni and Jagrati Sahariya | High Efficient Optoelectronic Modeling Tool for Novel Solar Photovoltaic Materials | Kindle Edition (e-book), May 2021, ASIN No.: B094WCK92D |
| Satyendra Singh , Manoj Fozdar, Abdulaziz Almutairi, Saeed Alyami, and Hasmat Malik | Strategic bidding in the presence of renewable sources for optimizing the profit of the power suppliers. | IEEE Access, vol. 9, pp. 70221-70232, 2021, Electronic ISSN: 2169-3536, doi: 10.1109/ACCESS.2021.3078288 (SCI) |
| Satyendra Singh , Manoj Fozdar, Hasmat Malik, M. Valle Fernandez, and Fausto Pedro Gracia Marquez | Influence of wind power on modeling of bidding strategy in a promising power market with a modified gravitational search algorithm. | Applied Sciences, 11, no. 10:4438, ISSN 2076-3417, 2021, https://doi.org/10.3390/app11104438 (SCI) |
| Shitanshu Sapre | Single Point Diagnosis of Short Circuit Abuse Condition in Lithium-ion Battery through Impedance Data | International Journal of Energy Research, May 2021, 1099-114. |

| | | |
|---|--|--|
| Rakesh Choudhary , Amit Parmar and Krishna Agarwal | Zero Mass Flux Dependent on Radiative Magnetohydrodynamic s Carreau Nanofluid Over a Radially Surface with Temperature Jump and Slip Flow: A Hybrid Nanofluid Analysis | Journal of Nanofluids, ESCI, Scopus, Q2, 2021, 10 (1), 118-127 |
|---|--|--|

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| Rakesh Choudhary and Shalini Jain | Temperature jump and concentration slip effects on bioconvection past a vertical porous plate in the existence of nanoparticles and gyrotactic microorganism with inclined MHD | Advances in Nano Research (Scopus, ESCI, SCIE, WoS, Q1), 2021, 11(1), 27-36 |
|--|--|---|

| | | |
|---|---|---|
| Rakesh Choudhary , Amit Parmar and Krishna Agarwal | MHD Williamson Fluid Comprising Gyrotactic Microorganisms Flows Through a Permeable Stretching Layer with Variable Fluid Properties | Journal of Nanofluids, ESCI, Scopus, Q2, 2020(9), 375-387 |
|---|---|---|

| | | |
|--|--|--|
| Rakesh Choudhary , Kohilavani Naganthran and Roslinda Nazar | Concentration Flux Dependent on Radiative MHD Casson Flow with Arrhenius Activation Energy: HAM with an Evolutionary Algorithm | International Journal of Heat and Technology (Scopus, ESCI, WoS, Q2), 2020, 38(4), 785-793 |
|--|--|--|

Invited Talks

| Expert | Topic | Organizer and Date |
|-------------------|---------------------|---|
| Dr. Pancham Kumar | Solar PV Technology | Manipal University Jaipur, 12th March 2021. |

| | | |
|---------------------|--|---|
| Dr. Shitanshu Sapre | Fundamentals of Energy Conversion using Fuel Cells | TEQIP FDP by Rajasthan University KOTA, and VITS Jaipur Jan 2021. |
| | Hydrogen: Infrastructure Challenges and Applications in Fuel Cell Vehicles | ATAL Academy AICTE, at GGITS Jabalpur M.P. 14 June 2021. |

IIC Activities

Under the banner of the “Institution Innovation Council”, BSDU, AICTE and MHRD Innovation Cell, various online activities and Expert Session Webinars were organized for the learning & value additions of the students, staff and the learning community across the world.

Capacity Building Program on "Effective Online Teaching, Assessment, and Communication Skills"

The CBP, aimed at addressing the contemporary challenges faced by academia, was co-organized by Bhartiya Skill Development University, Jaipur and Commonwealth Educational Media Centre for Asia (CEMCA). It was an attempt to help fellow academicians to gather the requisite skills to be able to plan, design, and deliver their courses online. The 5-day program (In Ten Batches) was a skill enhancement course on some of the pertinent pedagogical and platform related topics. The grand e-Inauguration of Capacity Building Program on "Effective Online Teaching, Assessment, and Communication Skills", was celebrated on 10 May 2021. The e-Inauguration was graced by the Prof. Achintya Choudhary (President, BSDU), Prof. Madhu Parhar (Director, CEMCA) and Dr. Veena Kumar (Professor, University of Maryland Global Campus, USA and the Executive Director of the IUCEE international Educator Certification Program (IIEECP).

The 5 day CBP program was stretched over a month in 10 batches, starting from 10 May 2021. The details are as follows:

| S.no. | Batch number | From | To |
|-------|----------------------|--------------|--------------|
| 1 | Batch 1 | 11 May 2021 | 15 May 2021 |
| 2 | Batch 2 (9:30 am) | 18 May 2021 | 22 May 2021 |
| 3 | Batch 3 (2:00 noon) | 18 May 2021 | 22 May 2021 |
| 4 | Batch 4 (9:30 am) | 24 May 2021 | 29 May 2021 |
| 5 | Batch 5 (2:00 noon) | 24 May 2021 | 29 May 2021 |
| 6 | Batch 6 (9:30 am) | 31 May 2021 | 4 June 2021 |
| 7 | Batch 7 (2:00 noon) | 31 May 2021 | 4 June 2021 |
| 8 | Batch 8 (9:30 am) | 7 June 2021 | 11 June 2021 |
| 9 | Batch 9 (2:00 noon) | 7 June 2021 | 11 June 2021 |
| 10 | Batch 10 (2:00 noon) | 14 June 2021 | 18 June 2021 |

Highlights of the event:

| Date | Event/Topic | Expert/s |
|--------|---|---|
| 10-May | Inaugural Session of Effective Online Teaching, Assessment & Communication Skills | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA), a regional unit of the Commonwealth of Learning. |
| 11-May | CBP on Effective Online Teaching, Assessment & Communication Skills | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA), a regional unit of the Commonwealth of Learning. |
| 23-May | CBP on Effective Online Teaching, Assessment & Communication Skills | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA) |
| 30-May | CBP on Effective Online Teaching, Assessment & Communication Skills | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA) |
| 14-Jun | CBP on Effective Online Teaching, Assessment & Communication Skills | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA) |

Other major activities are chronologically presented below:

| Date | Event/Topic | Expert/s |
|-------------|---|--|
| 08-Jan | Expert Webinar | Mr. Navrajvir Singh, CEO, Raletta Technology |
| 15-Jan | Leadership in Action and CEO speaker Series | Mr. Tarang Arora, CEO & Creative Director, Amrapali Jewels. |
| 22-Jan | Leadership in Action : Fireside and Chat Series | Mr. Priyanshu Goyal, Country Head, Myanmar, Cambodia & Malaysia at Marico Ltd. |
| 29-Jan | Leadership in Action: Expert Webinar Series | Mr. Shalabh Nepalia Zonal Head, AISECT. |
| 05-Feb | Leadership in Action: Expert Webinar Series | Mr. Sumit Jatoria Managing Director, Meero India. |
| 12-Feb | Leadership in Action: Expert Webinar Series | Mrs. Divya Jaggi, Chief People Officer, Promact Infotech Pvt Ltd. |
| 19-Feb | Expert Webinar Series: | Ritwik Basu, PhD Associate Professor, School of Metal Construction Skills, BSDU Jaipur |
| 19-Feb | Skill Workshop: Problem Solving with Open Source Tools | Dr. Chandra Prakash, NIT Delhi on Free and open-source software packages and hardware solutions. |
| 21-Feb | Invited Talk Series: Energy Swaraj Essence of sustainability | Chetan Singh Solanki, Professor, IIT Bombay & Founder, Energy Swaraj Foundation. |
| 26-Feb | Expert Webinar Series: Towards e-Mobility the Challenges Ahead | Mahipal Bhukya, M.E.(EE), IISc Bangalore, Manipal University Jaipur |
| 26-Mar | Expert Webinar Series: Entrepreneurship as Career Choice | Dr. Rajib Roy, EDII Ahmedabad |
| 17-Apr | Expert Webinar Series: 6 Proven steps to StepUP Career Development | Mr. Srinivas TR, PPE-HUB |
| 24-Apr | Coping with Phycho-Social and Managerial Challenges of Covid-19 New Variant | Dr. Raman Sharma, Sr. Professor, Medicines, SMS Medical College Dr. Lokendra Sharma, Sr. Professor of Pharmacology, SMS Medical College Mr. Kastriot Komani, Project Manager, School of Healthcare Skills, BSDU Jaipur Dr. Dhruva Sharma, Asst. Professor, Cardiovascular and Thoracic Surgery, SMS Medical College |
| 30-Apr | Redefining the Role of HR in the next phase of COVID-19 | Mr. Sameer Nagarajan-Global President, Human Resources, Cadila Pharmaceuticals. Dr. Neil Sequeria, Vice President, HR & Admin, Kokilaben Ambani Hospital, |

| | | |
|--------|---|--|
| | | Mumbai, Maharashtra. Mr. Aditya Rao, General Manager, People & Leadership, Siemens Healthineers Mr. Ashish Gakrey, Founder & CEO, HR Shapers. |
| 07-May | International Conclave on Combating the COVID Challenge & Contribution Towards Relief | Dr. Vimal Kumar Sharma, Professor of Global Mental Health Research, University of Manchester Dr. Anil Sharma, Asst. Clinical Professor, UCLA School of Medicine, Deptt. of Psychiatry, Los Angeles, California, USA Dr. Kusum Gaur Sr. Professor, PSM SMS Medical College, Jaipur Dr. Lokendra Sharma, Sr. Professor of Pharmacology, SMS Medical College, Jaipur Mr. Kastriot Komani, Project Manager, School of Healthcare Skills, BSDU Jaipur |
| 15-May | Expert Webinar: Managing Stress & Burnout in Crises | Mr. Naveen Jain, IAS Secretary, Food Civil Supplies & Consumer Affairs, Planning & Statistics Dept., Govt. Of Rajasthan; Eminent Author & Leading Motivational Speaker. Dr. Nitin Saraswat, International Mind Trainer, Motivator, Counsellor, Corporate Coach & Parenting Expert. |
| 17-May | Skill Workshop on Blockchain: Introduction For Developers | Jointly Organized by the School of Computing, BSDU Jaipur, and the Commonwealth Education Media Center for Asia (CEMCA) |
| 21-May | Fireside Chats on Leading a Peak Performance Culture | Payal Nanjiani, Indian-American CEO |
| 22-May | Panel Discussion on Youth empowerment for a better Health and Human Performance | Gunjan Taneja, Digital Creator, Social Media Influencer & Renowned Fitness Enthusiast Him-eesh Madaan, Leading Motivational Speaker, Career Strategist & Founder, Seekhega India. Mr. Anurag Rishi, Leading Transformational Speaker & Human Potential Trainer Dr. Shikha Sharma Rishi, Renowned Relationship & Personal Growth Mentor & Co-Founder at Progressive Planner |

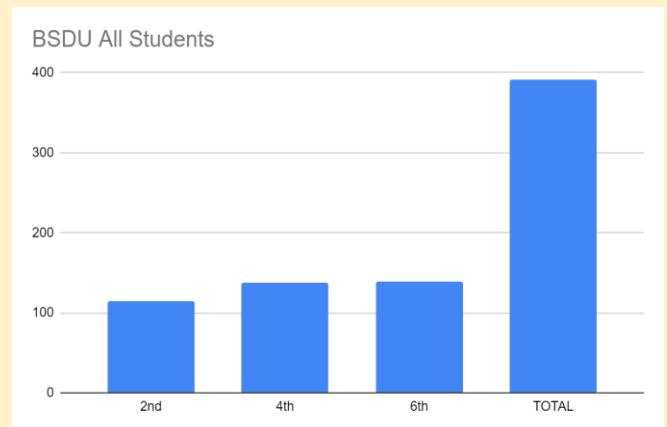
| | | |
|--------|---|---|
| 29-May | Expert Webinar on Personality Development Program | Shikhar Prajapati, Motivational Speaker, and Corporate Trainer. |
| 04-Jun | Expert Webinar on Innovative use of Technology in Education | App Guru Imran Khan, National Awardee Teacher. |
| 11-Jun | CXO Series on Perils of Social Media and Data Protection | Colonel Inderjeet Singh, Chief Cyber Security Officer, Vara Technology Pvt Ltd |
| 18-Jun | Expert Webinar on AI for Robotics, IoT and Data Science | Mudit Thakkar, President, Answer Foundation, Director Partnerships, Scool and Mentor, Edo Square |
| 20-Jun | Inauguration of BSDU Skill Carnival 2021 | Jointly Organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA) |
| 24-Jun | Skill Workshop on WoW The World with Your Speaking Skills | |
| 26-Jun | Expert Webinar on Appreciative Inquiry for Self Worth & Growth | Mr. Purandar Sengupta, Certified Master Trainer (NIESBUD) & Design Thinking Practitioner (IBM). |
| 27-Jun | Try A Skill: Makeup Tips to Ace the Everyday Look | Ms. Payal Verma, Professional Makeup Artist and Founder of Kosemtica Academy |
| 29-Jun | International HR Conclave on Redefining the Role of Skills & HR in post-COVID World | Jose Varghese, Director HR & Learning, Accuro Specialist Services, Dubai UAE. Abimbola Awudu, Head HR, Meristem, Lagos Nigeria. Swati Dixit, Group HR Manager, Coforge Tech, Victoria Australia. Abhishek Mathur, CPO, VNG Corporation, Vietnam. Vikram Anand, Head of HR, Cluster Lead (MY/IDN/PH) /Regional HRBP - East Asia, British Council, Kuala Lumpur, Malaysia. Tushar Kad, Director HR, Simeio Solutions, Atlanta GA, USA. Ashish Gakrey, Founder, HR Shapers, India. |
| 30-Jun | Skill Workshop on WoW The World with Your Speaking Skills | |



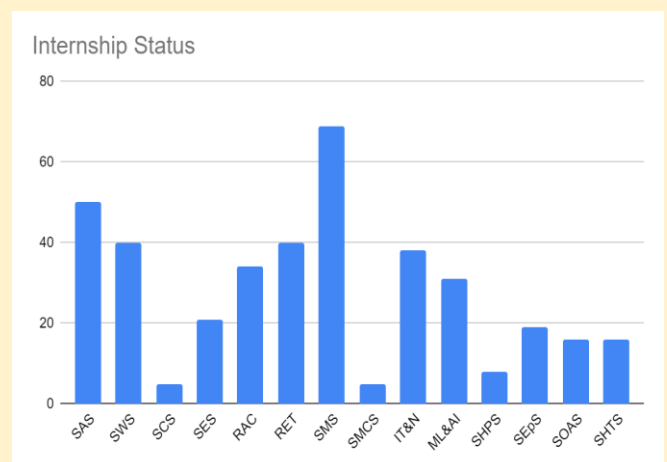
T&P Cell @BSDU

The Training & Placement Cell of the University organized internship drives for students in various companies and successfully placed all the students for internships in various organizations such as Fleeca, Mahindra & Mahindra Ltd, Narsi Interior Infrastructure Pvt. Ltd., Zorin Interior Pvt. Ltd., RUJ Woodcraft, RS India, Daikin, Y2K Engineers, HMT Ltd., JCB Ltd., Vara Technology Pvt. Ltd. The Fern, An Ecotel Hotel Jaipur, Souvenir Jaipur, Pullman New Delhi, Clarens Gurugram, Sarovar Portico Hotel Jaipur.

The T&P Cell achieved a landmark of 100% internship for the students of BSDU. 391 students from the 2nd, 4th and 6th semesters were successfully placed for internships in different organizations as presented below:



Internship Status & School-Wise Internship Status



Articles

Revival Strategies for Indian Hospitality and Tourism Industry Post-Covid Pandemic

Professor (Dr.) Mushtaq Ahmed
Principal SHTS & SOAS BSDU, Jaipur

India is a diverse Country with its snow-clad mountains, numerous hill stations, Thar Desert, pristine beaches, beautiful coast lines, Historical Forts, Monuments and Cultural Heritage sites. As a result, India is focal attraction for Foreign Tourism from all over the world. The young Population of India - 60 million gives an additional edge of strong local demand for Indian Hospitality Industry.

This industry accounted for 8.1% of jobs and 9.2% of GDP in 2018 as per World Travel and Tourism Council and has been growing with leaps and bounds during the last decade. Indian Hospitality Sector sailed through smoothly into January 2020 with FTA (including FTA on e- Visa) of 1499417 compared to 1394347 during January 2019 an increase of 7.5% as per official data of ministry of Tourism Government of India. However, the Industry started feeling the ripples of Corona Pandemic in March 2020 as FTA declined sharply by 66%.

The situation further worsened after declaration of complete lockdown and suspension of travel visa and Travel ban in force in many countries across the globe. As a result, Indian Hospitality and Tourism Industry has been worst sufferer because all operations have come to grinding halt.

The Industry will have to be innovative and adapt itself to the challenging circumstances. Preference of Guests for leisure travel is going to be increasingly resort centric with a lot of open space. For businesses travellers city hotels may continue as boarding and lodging places with strict covid-19 protocol and the hotels which follow good health hygiene, safety and make use of new technology to

avoid manual touch will have good occupancy. Increase in area per cover, partition per table for outdoor seating, live cooking to see every step of food production, use of digital menus, disposable crockery and cutlery, napkins, drive through online food delivery and takeaway outlets are going to be the order of the day.

Extensive use of technology will play very important role in revival of the industry. Seamless no touch checks-ins and check-out, mobile apps for room control, circulation of external fresh air to prevent aerosol infection, full body thermal screening, mask detection, contact less communication, Robotic Maids etc. are going to earn brand loyalty from the Guests in Post Pandemic Era.

World Trade and Tourism Council is also driving the new travel protocols in consultation with various stock holders and travel industry association as confidence building measures and to clear expectations and compliance for travellers including vaccination certificates.

Government of India's is also working as driving force to rejuvenate the Hospitality Sector by strengthening Infrastructure, introducing programs such as Pilgrimage Rejuvenation and Spiritual Augmentation Drive (PRASAD), Swadesh Darshan Scheme, Atmanir Bharat Abhiyan, Vocal for Local and Make in India initiatives along with liberal allotment of Funds for development of Hospitality and Tourism Sector in India.

The world has faced similar situations in the past and the Hospitality Industry has shown resilience by bouncing back after those crises situations; be it deepest economic recession of 2007 to 2009, SARS Pandemic of 2002 to 2004 or H₁N₁ (swine Flu) Pandemic of 2009. India has the added advantage of enormous domestic market with our 60 million youth population ready to come forward to take the Indian Economy to new heights. Therefore, Hospitality Industry will bounce back with flying colors in near future.

Internet of Things, Real world Examples

Col. Rajkumar, Provost BSDU and Principal,
School of Computing Skills

The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.”

The Internet of Things (IoT) refers to a vast number of “things” that are connected to the internet so they can share data with other things – IoT applications, connected devices, industrial machines and more. Internet-connected devices use built-in sensors to collect data and, in some cases, act on it. IoT connected devices and machines can improve how we work and live. Real-world Internet of Things examples range from a smart home that automatically adjusts heating and lighting to a smart factory that monitors industrial machines to look for problems, then automatically adjusts to avoid failures.

Today, we’re living in a world where there are more IoT connected devices than humans. These IoT connected devices and machines range from wearables like smartwatches to RFID inventory tracking chips. IoT connected devices communicate via networks or cloud-based platforms connected to the Internet of Things. The real-time insights from this IoT collected data fuel digital transformation. The Internet of Things promises many positive changes for health and safety, business operations, industrial performance, and global environmental and humanitarian issues. At BSDU we intend to solve the existing problems of the enterprises by way of IOT. Let it be a manufacturing plant, a warehouse, a service provider or any other enterprise, please approach us with the problem statement and we shall revert with the most optimized IOT solution which shall include development, implementation and operations. Few examples of a problem statement

are given below. These solutions have been successfully provided to the users to their complete satisfaction.

"I am a taxi fleet owner. I have around 120 cabs. My drivers are habitual of running the AC in stationary and parked vehicles. This is resulting in huge losses to me."

The solution provided:

When car is stationary for more than 5 minutes the AC will get switched off automatically. It cannot be switched on manually. And when car has moved for more than 30 seconds the AC will become operational which can be now controlled by the user (can be switched On and Off as usual). The solution was implemented successfully and resulted huge savings to the operator. We used a microcontroller, a GPS chip and a relay to implement this solution without touching the car’s original circuits. The operator returned after a month with a box of sweets. He was extremely happy.

"My company has installed equipment at remote locations. It is getting stolen quite often because most of the sites are unmanned. Can you provide some solution which ensures that we always know the current location of the equipment and also if someone steals the same it should become unusable to the thief so that over a period of time theft cases reduces automatically?"

The solution provided:

It is a classic example of asset management and geo fencing with additional capability of disabling the equipment if it goes out of geo fenced location.

The solution provided was simple and effective. All the equipment deployed countrywide became visible on a server. Geo boundaries were defined for each equipment. When we moved the equipment out of the boundary the system generated alarms via SMS and email and also on the server and certain micro relays were operated in the equipment rendering it useless/beyond economical repair.

The customer was highly satisfied with the solution. He reverted after three months with hardly any number of thefts.

One of the trucks fleet owner approached me to provide a solution to fuel theft by the drivers. He wanted to have real time data on fuel and real time reporting of any theft of fuel.

The solution provided:

The solution was simple and straightforward. A GSM modem along with the fuel sensor was installed in around 100 trucks. The logic provided the solution. When truck is normally running it consumes one litre per 7-8 KMs. It has a definite pattern/rate of fuel consumption. Any variation in this pattern/rate is indicative of theft of fuel. The rapid decrease in fuel is detected and alarms generated for the owner along with the quantity of fuel stolen. All this happening in real time. The owner was mighty happy with the solution. Along with this his all fleet could now be monitored real time on his mobile phone with the help of application we developed. Simplicity of the solution is the key.

“We have the sensors deployed for pre warning of the lightening etc. but how do we warn the people of that particular remote area. We need an announcement system which will be used to announce about natural calamities in remote villages. The trigger to announce shall be provided by a server at Delhi.”

The solution provided:

A system was developed which will receive a message from the server, switch on the PA system and announce the pre-recorded audio files as per the message received. This system can save precious lives.

“I have a large factory and have various fluid tanks which requires filling up and emptying frequently based on certain conditions. These tanks have inter-dependencies on each other. Presently the process of monitoring, filling up and emptying is manual and error prone. Can you do something?”

The solution provided:

Initially the problem looked complicated. We took two tanks initially which had dependencies on each other. The condition was, if tank A is empty and tank B is full then fluid should get transferred from

tank B to tank A. And some other combinations and permutations. One solution was to put wired sensors and controllers along with automated fluid valves. This solution was expensive and would require lot of civil work. We decided to provide a complete wireless solution. Wireless controllers along with sensors and wireless valves were deployed for these two tanks initially and on successful testing the solution was provided to all the 40 odd tanks in the factory with a central controller running the complete logic defines by the user. All wireless and cheaper solution without disturbing the current aesthetics of the factory. The owner was happy with reduced manpower and error less system.

These are only few of the problems solved. We await your “Problem Statement”.

Are Electric Vehicles the Right Choice for India in 2021?

Mr. Markus Grueter (Project Manager), Mr. Baljeet Singh (Trainer), School of Automotive Skills

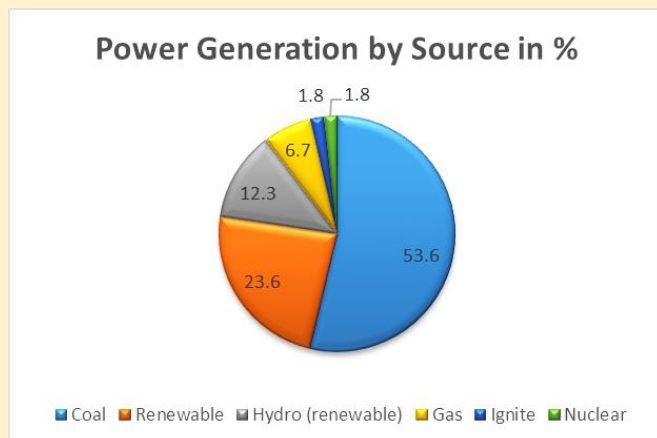
A few years ago, the hype about electric vehicles began. Elon Musk is one of the figureheads of electro mobility; his concept of success is quite simple. He says- Create an electric vehicle that optically hits the nerve of the time and equip it with a decent range. Before Tesla appeared on the scene, the electric cars had a stuffy existence. Apart from a few eco-freaks, nobody wanted to purchase such cars or even drive them. Tesla's Model S brought two fundamental changes in a few years that had seemed impossible for decades. On the one hand, the dull image of the electric car was discarded, but later it became a status symbol. On the other hand, Tesla forced all well-known manufacturers to switch to electric mobility.

Driving in style and protecting the environment at the same time, the automobile dream seems to come true. Are there any disadvantages or difficulties despite all the euphoria? Is the global trend towards electric mobility equally suitable for all countries or are there countries on this earth

where electric vehicles (from now on I will refer them as EVs) do not make sense?

Electric vehicles are good for the environment. Such slogans are often used for marketing purposes, but they are extremely naive and hardly do justice to reality. Reality is much more complex. EVs do not emit harmful exhaust gases during its use. In other words, they are environmental friendly. The exhaust gases are not prevented but only relocated. The principle is simple, the more environmental friendly the power generation is, the cleaner EVs are.

From an economic point of view, the production of electricity from coal has profitable advantages. Firstly, coal is easy to procure and secondly, production is simple and cost-covering. Unfortunately, it has a big disadvantage, the CO₂ emission is immensely high. As mentioned in the beginning, EVs are only clean if the electricity is produced in an environmental friendly process.



It is clear from the pie chart above that India produces electricity from renewable energy sources as well. More precisely 35.9% (Hydro + renewable sources). With India's decreasing dependence on coal, EV is getting cleaner year by year as long as electricity from renewable sources increase.

To summarize, India's power generation is turning away from coal and moving towards cleaner renewable sources/resources. The transformation towards a greener power generation has reduced coal power plants in India. Hence, there is significant reduction in pollution while generating power. India's power generation is on the right track towards a greener future with or without EVs.

Theoretically, EVs can also run on current amount of energy, but logically there will be an energy shortage elsewhere. It does not matter how India solves the energy deficit, but as long as it is not solved, a nationwide distribution of EVs is not reasonable. Let us assume that energy is produced 100% from renewable energy sources, and all the energy is available in excess. What is left is a suitable infrastructure that allows reliable and safe charging of the EVs.

There are two different charging scenarios and its challenges.

Charging levels are based upon the power distribution types:

Household Power Sockets:

Each EV can be charged with the help of a charging cable at a common power outlet. This leads to special requirements for electrical installations. A lot of current flows over several hours (approx. 8 Amps for 6-8 hours). This is often the case when charging EVs.

The consequence is a strong heat development. It is therefore highly recommended to check the electrical installation before someone purchases an EV.

Fast-Charge Station:

Fast charge stations are built specially to charge EV's in the quickest possible way. Such stations work with a much higher current intensity than household sockets. For this reason, the car can be charged to a maximum of 80% in a very short time of about 30 minutes. DC fast chargers require inputs of 480+ volts and 100+ amps (50-60 kW) and can produce a full charge for an EV with a 100-mile range battery in slightly more than 30 minutes (178 miles of electric drive per hour of charging).

It can be concluded that if power/energy is generated with renewable sources, EVs are environmental friendly. India also needs an energy excess to charge EVs on a sustainable basis. The 3rd important factor is a reliable and safe charging infrastructure which needs to be built up from the scratch.

World is going to face the scarcity of skilled trainers on the upcoming demand of EV trainers

worldwide. BSDU is capable of providing highly skilled trainers to the Automotive sector for upcoming EVs. Our vision is to produce skilled persons for the industry. Our contribution to the automotive world will increase following the vision of the great personality -Dr. Rajendra Joshi.

Role of Wood in Circular Economy

Dr. Shitanshu Sapre

Assistant Professor, School of Woodworking Skills

India is under the paradigm shift or in a transition stage where lots of sectors are in continuous improvement. This leads to the exploration of areas such as wood, coal, gasoline and gases which are considered as age old sources of energy. As economy grows, the new form of sources is expected to be used in market for sustainable development. In this scenario, wood plays a significant role as it is based on major principles i.e. reused, recycle of circular economy. A circular economy is an alternative to a traditional linear economy (make, use, dispose) in which resources are kept in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and material at the end of each service life.

The implementation of circular economy is one of the solutions for local and national resource security and a way to reduce the environmental impact of non-degradable sources. Circular economy suggests the use of renewable, reusable and nontoxic materials. The key concept of the circular economy is to reduce waste levels and increase the recyclability of products. A lot of CO₂ is produced in the housing and construction industry and this is something that must change. Therefore, use of wood which requires nothing more than sun light and rainfall to grow can be the feasible solution in wide range of applications. it is interesting to consider the amount of low-quality wood that cannot be sold but can be reused. It can be peeled to produce natural bio-based construction board or boards for furniture. If the quality is very

low, the wood can easily be made into chips or fiber, which glued together can produce high quality materials for building and furniture production. Similarly, plastic bags can be replaced by paper bags, coal can be replaced by wood-based biomass, wood can be the magnificent product for household building. However, it has been systematically replaced by highly polluting products such as steel, concrete, brick and others. The list of sustainable products that could replace non-sustainable ones is a long one.

“Circle Economy’s report 2020, on the study reveals that global economy is only 9% circular, which means that just 8.3 billion tones out of the 92.8 billion tons of minerals, fossil fuels, metals and biomass that enter the economy annually are reused.” Wood be suitable for the ‘reduce, reuse and recycle’ movement. It also helps to reduce CO₂ in the atmosphere thus contributing to the slowing down of climate change as wood captures and stores carbon. Hence, Wood is becoming increasingly attractive as a raw material for not only for timber construction, furniture and interior design but for sustainable solution for accelerating the circular economy.

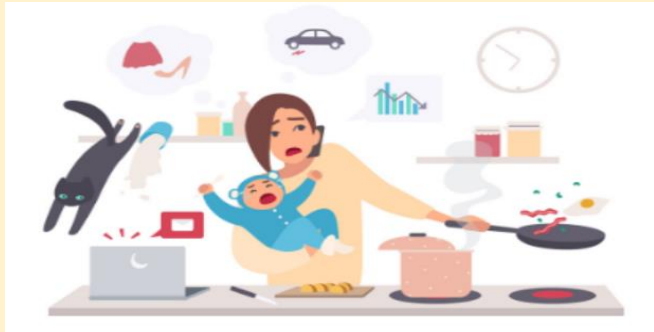
Work from Home: Double brunt borne by women during the Pandemic

Ravni Talwar Guj, Front Office Head

COVID -19 has brought most of us to a new normal – that of working from home! Pajamas all day, Netflix and chill, food on the table – and if you are more fortunate, food in your room. Luxuries of the pandemic effect is endless – for those of us who have the luxury of getting all things done by someone else. But have you ever thought how the so called “unplanned vacation ride” has been for the working folks? Especially, the ones bearing the double burden of household-work and official work?

If we are at the liberty to say it, yes, working women are the most affected by pandemic. While working from home is like a dream-come-true

situation for some of us, it is mostly a nightmare for working moms, as per the trending stories making their rounds, online. It is a demanding situation where you become the scrum master or crisis management expert! Let's have a look at the different, common, trending situations and potential solutions to overcome this together.



Unequal Partnerships and Added Responsibilities: A better-half is someone whom you look forward to during the good and the bad. Managing household responsibilities is completely the arena of women folks. Recorded as the country with largest gender chore gap, according to the Economic Forum's Gender Gap Report released in 2016, women spend on an average of 300 more minutes than men, every single day. Indian households see women become even more burdened with responsibilities, given their status the primary caregivers. The degree of participation in the home role has created difficulties for participation in work, resulting in the home-work conflict for women. This cognitive dissonance could be the reason for added stress levels in women professionals.

The Mental Load and Invisible Labour:

As complex the spice route was, so is the complexity in combining it together to craft a wholesome Indian meal. Home-cooked meals are a long-drawn affair. To top it up with the demand of availing it fresh, working women are burdened with additional stress. The absence of maids and food delivery services makes it even worse. There is also the challenge of dishing out several snacks in a day to the kids on vacation. The invisible labour and mental load of planning meals, managing groceries, planning and organizing other household chores add to the stress levels.

Inner Critic:

Skeptical of one's own quality of work is an innate 'quality' every woman carries. There is always an inner critic working towards making everything perfect, flawless – be it at home or work. Women are often worried about not matching up the very high standards set by themselves. So along with managing other responsibilities at home, if they miss a timeline or if the quality of a deliverable suffers, the inner critic in them often makes them feel not being good enough.

Lack of Child-Care Facilities/Summer Camps:

Due to the crisis, the children could not be sent to any place outside such as parks, recreation sites friend's house etc. But, unavailability of resources for helping with childcare adds on to the tormenting situation.

Women are forced to negotiate with their family members and chart out a plan for each day involving each member of the family. To ensure their mental health remains stable, working women need to prioritize their health to keep the household in order. Here are some DIYs:

- Practise *me-time*: Give yourself good 30 minutes either at the start of the day or towards the end of the day with no disturbance. This could be in the form of meditation, exercise, yoga or any other form of physical exercise.
- Social-distancing and not community distancing: You may feel distanced from everyone, but there must always be a group of friends who are there for you over a call. Stay connected.
- Remember you are not alone: The entire world is with you. Don't read too much about the pandemic. Knowing more than what you should know is overwhelming.
- Stick to your work time: While it may be tempting to snooze the alarm clock, it is much better to stick to your work routine to better integrate work and home.

It is conceptually easier to talk about change in the workplace but not changing the mind-sets. This can be achieved only through gender sensitization

right from the school level and by imprinting the idea of equality and cooperation.

Online Teaching: A Changing Scenario after COVID-19

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

Presently we are facing a very harsh period of human civilization where COVID-19 has come to the existence as a global pandemic. Millions of people have been infected and thousands of people have lost their lives within the last one and a half year. The worst thing is that we are helpless to fight against this invisible global enemy. Businesses are shut down because of the precautionary lockdown imposed by the government. Moreover, this pandemic situation is changing the behaviour of society and the mode of essential services and businesses.

The Pandemic has brought a change in the education sector and Online Teaching is the result of it. Whatever situation will remain but education must go on, therefore, it needs to strengthen our education system according to the COVID-19 and changing the behaviour of society. Along with, it is also necessary for the teacher community to keep running their teaching by the use of technology. As a prerequisite, we would prepare ourselves to get familiar with modern teaching tools. The policymakers are predicting that remote education and online education will be the futuristic model during the long extended pandemic situation of COVID-19.

Accepting this statement, a question moves in the minds of all the teachers that how to do online education? Secondly, we have to adopt the best-suited tool for online teaching, according to our requirement and simplicity. Many freeware, as well as paid applications, are available for teachers for effective online teaching, where we can take online classes, assign particular assignments, take online tests, and track the performance of the students in the class. To take the online classes by

teleconferencing, the most popular teleconferencing app which is used by many teachers is Zoom. One can take online class for 60 minutes for 100 students on Zoom with a free account.

This app surprisingly got attention after COVID-19 because of its simplicity for the user and majestic functionality with normal internet connectivity. But, it has been identified that Zoom does not provide any encryption to user data, which is shared during the meeting, even few meetings were hacked by the hackers. Unfortunately, U.S.A. based company, Zoom has revealed that it is using the servers which are located in China. Therefore, Zoom has lost its credibility and facing the negative wave of users.

Google and Microsoft, both are big tycoon and strong competitors of each other. They are also offering their Teaching-Learning solutions and both are good in their attributions. These solutions are completely free for the education purpose but system administrator of the institution has to set up the account on it, that requires technical knowledge. These solutions are much impressive, with a lot of teaching tools besides the video conferencing.

Google offers Google Meet app for teleconferencing and Google Classroom for Teaching-Learning management, where teachers can assign work, provide notes and documents to the students. At the same time, teachers can track the progress of each student. Microsoft offers its solution for the same as Microsoft Teams but it is a little bit complicated. We need a sound knowledge of computer and internet.

Various issues come in when moving offline to online learning, like how does one provide informal social interactions, how to ensure student attention, or even how to ensure active participation? Most schools or other institutions struggle with these since neither their teaching material addresses this nor have they had training on this.

While the online world has its own set of challenges, there are many benefits of it too.

Through online mode, students learn quickly and even the retention rates of students are higher than the offline mode. There is flexibility in online mode as students can learn at their own pace, maintaining time flexibility which enhances learning and hence better results. Majority of the work is taking place through online mode. Though this shift from offline to online mode was a result of emergency but now digital transformation has taken place everywhere. One thing is for sure, online education is growing and it is here to stay.



Winning Entries of Poetry Writing Competition

| <p>Conversation with invisible man - INCREDIBLE INDIA Deepak Sangwan (School of Automotive Skills, 5th sem)</p> | <p>आत्मनिर्भर भारत Shubhanshu Kumar (School of Manufacturing Skills, 1st sem)</p> |
|--|--|
| <p>I was roaming in the state incredible On the countryside i met a man invisible He was searching for something in order to gain But i felt he was actually in pain</p> <p>What was the pain:</p> <p>He was a man with positive attitude and negative view A victorious legend in a defeated hue He started talking to me in fear that, "In era of modernization, tradition stands out of the queue"</p> <p>He started telling me about history And questioned, "Is it a feel or sensory?" And the sum total i could conclude was, "At the end it was just a mystery"</p> <p>Then i recognised it was my motherland Hurted inside, happiness is just to pretend The real quandary which i apprehend That in hurry of development our culture is propend</p> <p>At the last voice just said," I am incredible Always and always invincible Somehow and sometimes tangible Many a times horrible I am incredible I am incredible"</p> | <p>बहुत हुआ अब बाते बनाना बातों से तो काम नहीं होगा देश का यू तो विकास ना होगा आओ अब मिलकर देश को "आत्मनिर्भर बनाए" अब सोने कि चिड़िया नहीं देश के हर दिल को सोने का बनाए जो लड रहे है भूख और प्यास से चलो उनको कुछ काम सिखाये चलो चलकर उनका हाथ बटाये उनको हम "आत्मनिर्भर" बनाए जो कर रहे हैं कालाबाजारी उनको अब सबख सिखाये हालात बुरे हुए तो क्या हुआ दिल तो बहुत बड़ा हैं मेरे देश का हर एक नए काम को सम्मान दिलाए हर हाथ मैं हुनर की चाबी पकड़ाए देश के हालातों पर तरस ना खाए देश के हालातों को मजबूत बनाने अब कि बार राखी पास के काका कि दुकान से लाए विदेशी माल को नमस्ते बोलकर दूर भगाए चलो देश के पटाखों से ही दीवाली मनाये प्रकृति के रंगों से ही होली खेले अब बातें नहीं देश को "आत्मनिर्भर" बनाए देश के सामान ही अनमोल बनाए क्यो ना अब लोकल को वोकल हम बनाए देश की इकोनॉमी को हम फिर से बढ़ाए देश को दुनिया का सरोवर बनाए जो मसले बढ रहे हैं परिवर्तन की और थोड़ा हाथ बढ़ाए अब चलो मिलकार भारत को</p> |

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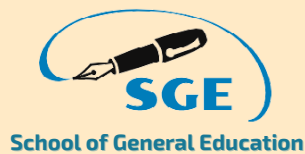
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