**Faculty wise and Department wise information**

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| **S.No** | **Schools** | **Manufacturing Skills** | **Metal Sheet Constructions Skills** | **Carpenter Skills** | **Automotive Skills** | **HVAC &R Skills** | **IT & Networking Skills** | **Machine Learning & AI Skills** | **Health Care & Paramedics Skills** | **Constructions Skills** | **Electrical Skills** | **Renewable Energy Technology Skills** | **Office Administration Skills** | **Hospitality and Tourism Skills** | **Entrepreneurship Skills** | **General Education Skills** |
| 1 | Student teacher ratio | 6.2:1 | 01:01 | 03:01 | 05:01 | 04:01 | 05:01 | | 05:01 | 02:01 | 5.64 | | 04:01 | 03:01 | 06:01 | NIL |
| 2 | Class Rooms | 5 | 1 | 3 | 4 | 4 | 5 | | 2 | 3 | 7 | | 2 | 3 | 2 | 4 |
| 3 | Teaching labs | 11 | 3 | 2 | 5 | 3 | 3 | | 1 | 3 | 5 | | NIL | 4 | 3 | NIL |
| 4 | Research Labs | NIL | NIL | 1 | 1 | NIL | 2 | | NIL | NIL | 1 | | NIL | NIL | 1 | NIL |
| 5 | Research Scholars | NIL | NIL | 1 | 2 | 1 | 6 | | NIL | NIL | 1 | | 5 | 2 | 3 | 8 |
| 6 | Publications in last three years | 14 | 4 | 3 | 4 | 20 | 34 | | NIL | 6 | 53 | | 3 | NIL | 39 | 26 |
| 7 | No. of Books published | 1 | NIL | 2 | NIL | 2 | NIL | | NIL | NIL | NIL | | NIL | NIL | NIL | 1 |
| 8 | Patents | NIL | NIL | NIL | NIL | NIL | NIL | | NIL | NIL | NIL | | NIL | NIL | 1 | NIL |
| 9 | Transfer of Technology | NIL | NIL | NIL | NIL | NIL | NIL | | NIL | NIL | NIL | | NIL | NIL | NIL | NIL |
| 10 | Inter-Dept. Research | NIL | NIL | NIL | NIL | NIL | NIL | | NIL | NIL | 2 | | NIL | NIL | NIL | NIL |
| 11 | Consultancy | 01 | NIL | 1 | 3 | NIL | NIL | | NIL | NIL | NIL | | NIL | NIL | NIL | NIL |
| 12 | Externally funded research projects | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 13 | Educational Programs arranged | 02 | NIL | 1 | 5 | 11 | 2 | | NIL | NIL | 2 | | NIL | 1 | 7 | NIL |

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| **Summary** | |
| Total number of Classrooms | 45 |
| Total number of Teaching Labs | 43 |
| Research Labs | 6 |
| Research Scholars | 29 |
| Publications in the last 3 years | 206 |
| No. of Books Published | 6 |
| Patent | 5 |
| Inter Dept Research | 2 |
| Consultancy | 5 |
| Educational Programs | 31 |

**List of Publications in last three years**

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| **S.No** | **School of Automotive Skills** | **Year** |
| 1 | Kantaprasad and A.Sagar “Prototype design of a small scale thermionic energy generator for waste heat recovery in hybrid electric vehicle” in SAE International USA Technical Papers, ISSN: 0148-7191, e-ISSN: 2688-3627, 2019. | 2019 |
| 2 | Kantaprasad and A.Sagar “A Study and mathematical analysis of thermionic energy conversion materials based on their solid state emission properties” in SAE International USA Technical Papers, ISSN: 0148-7191, e-ISSN: 2688-3627, 2019. | 2019 |
| 3 | Kantaprasad and A.Sagar A Review on Methods and Material for Optimizing Thermionic Regeneration System” in American Institute of Physics Conference Proceedings Vol. 2148 Issue 1, September 2019. | 2019 |
| 4 | Kantaprasad and A.Sagar “A Review on Opportunities of Thermionic Regeneration System in Hybrid Electric Vehicle” in Journal of Physics, Conference Series, Vol. 1230 Issue 1, September 2019 | 2019 |
| **School of Electrical Skills** | | |
|  | Pradeep Singh, Rajive Tiwari, Mukesh Kumar Shah, K.R.Niazi, N.K.Meena, Saurabh Ratra,"Voltage stability index and APFC for performance improve ment of modern power systems with intense renewables", The Journal of Engineering, IET (Accepted) | 2019 |
|  | Saurabh Ratra, Rajive Tiwari, P.K. Agarwal and Jyotsna Singh, “Efficient Methodology for Optimum Placement of STATCOMs to Boost Voltage Stability Margin by Circular Optimization Algorithm", 7th European Conference on Renewable Energy Systems, Madrid, Spain, June 2019. | 2019 |
|  | Saurabh Ratra, Rajive Tiwari, K. R. Niazi and R.C. Bansal, “Optimal coordinated control of OLTCs using taguchi method to enhance voltage stability of power systems," Energy Procedia, Elseveir, Vol. 158, pp. 3957-3963, 2019. | 2019 |
|  | Saurabh Ratra, Rajive Tiwari, P.K. Agarwal and Jyotsna Singh, “Efficient Methodology for Optimum Placement of STATCOMs to Boost Voltage Stability Margin by Circular Optimization Algorithm", S.N. Applied Sciences, Springer 2019 Extended paper submitted. | 2019 |
|  | Jyotsna Singh, Saurabh Ratra, Rajive Tiwari,”Impact analysis of EVs charging demand on distribution system", 7th European Conference on Renewable Energy Systems, Madrid, Spain, June 2019. | 2019 |
|  | Saurabh Ratra, Rajive Tiwari and R.C. Bansal, “Systematic Approach for Optimal Allocation of STATCOM to Enhance Voltage Stability Margin by Circular Optimization Algorithm", 2nd International Conference on Smart Energy Systems and Technologies (SEST-2019), Porto, Portugal. | 2019 |
|  | Shukla, Om Ji, Gunjan Soni, Rajesh Kumar, A. Sujil, and Surya Prakash. "An Agent-Based Simulation Modeling Approach for Dynamic Job-Shop Manufacturing System." In *Harmony Search and Nature Inspired Optimization Algorithms*, pp. 751-760. Springer, Singapore, 2019. | 2019 |
|  | Satyendra Singh and Manoj Fozdar, “Optimal bidding strategy with inclusion of wind power supplier in an emerging power market,” IET Generation, Transmission & Distribution, Vol. 13 (10), pp 1914-1922, 2019**.** | 2019 |
|  | Manisha Sheoran, Susheela Sharma, Pancham Kumar, “A novel policy to tackle life span reassessment of existing bulk and thin film photovoltaic materials”,  International Conference on New and Renewable Energy Resources for Sustainable Future, SKIT Jaipur (Accepted for publication). | 2019 |
|  | **Book Chapter**  Manisha Sheoran, Susheela Sharma, Pancham Kumar, “End Life Cycle Recycling Policy Framework for Commercially Available Solar Photovoltaic Modules and Their Environmental Impacts”, Mechatronic Systems Design and Solid Materials, CRC Press. ISBN 9781771889155 | 2020 |
|  | Prabhat Ranjan, Pancham Kumar, Tanmoy Chakraborty, Manisha Sheoran, Susheela Sharma “A study of structure and electronic properties of chalcopyrites semiconductor invoking Density Functional Theory”, Materials Chemistry and Physics (Elsevier), vol. 241, pp. 122346,2019 | 2019 |
|  | Sujil, A., Rajesh Kumar, and R. C. Bansal. "Multi Agent based Autonomous Energy Management System with Self-Healing Capabilities for a Microgrid." IEEE Transactions on Industrial Informatics (2018). | 2018 |
|  | Saurabh Ratra, Anupam Agarwal, Rajive Tiwari, Nand Kishor Meena, “Optimal Allocation of Distributed Generator to Ameliorate the Voltage Stability Employing Circular Optimization Algorithm," Accepted in 2018 National Power System Conference (NPSC), Trichy, India | 2018 |
|  | Saurabh Ratra, Rajive Tiwari and K. R. Niazi, “Voltage stability assessment in power systems using line voltage stability index," Computers & Electrical Engineering, 2018. | 2018 |
|  | Varshney H, Sujil A, Kumar R. A Singular Spectrum Analysis based Approach to Price Forecasting for a Day Ahead Electricity Market. In 8th IEEE India International Conference on Power Electronics (IICPE) 2018 Dec 13 (pp. 1-6). IEEE. | 2018 |
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|  | Sujil, A., Jatin Verma, and Rajesh Kumar. "Multi agent system: concepts, platforms and applications in power systems." *Artificial Intelligence Review* 49, no. 2 (2018): 153-182. | 2018 |
|  | Pancham Kumar, Amit Soni, Jagrati Sahariya,” Cost Benefit Modeling of AB2X4 (A= Cd; B=Ga; X= S, Se) Solar Photovoltaic (PV) Materials”, (International Conference on Startup Ventures:Technology Developments and Future Strategies - Accepted for publication), 2018. | 2018 |
|  | Pancham Kumar, Amit Soni, Jagrati Sahariya, “Cost Benefit Calculation using AB2X4(A= Zn, Cd; B= Ga; X= Te): A Promising Material for Solar Cells, International Conference on Intelligent Computing Techniques for Smart Energy Systems (ICTSES-2018-Accepted for publication), 2018. | 2018 |
|  | Jagrati Sahariya, Pancham Kumar, K. C. Bhamu and Amit Soni, “Electronic structure of Gd based transition metal antimonides GdTSb (T = Ni, Pt),” American institute of physics, vol. 1953, pp. 110010, 2018 | 2018 |
|  | Jagrati Sahariya, Amit Soni, and Pancham Kumar, “Ab-initio Investigations for Opto-electronic Response of (Cd, Zn)Ga2Te4: Promising Solar PV Materials,” American institute of physics, vol. 1942, pp. 140079, 2018. | 2018 |
|  | Satyendra Singh and Manoj Fozdar, “Bidding strategy for generators considering ramp rates in a day-ahead electricity market,” Turkish Journal of Electrical Engineering & Computer Sciences,2018, DOI: 10.3906/elk-1805-73. | 2018 |
|  | Satyendra Singh, Manoj Fozdar and Ajeet Kumar Singh, “Coordinating bidding strategy of profit maximization for competitive power suppliers in energy and reserve markets,” 2018 8th IEEE India International Conference on Power Electronics (IICPE), pp. 1-6, 2018, MNIT Jaipur, DOI: 10.1109/IICPE.2018.8709459 | 2018 |
|  | Satyendra Singh, Manoj Fozdar and Ajeet Kumar Singh, “Optimal strategic bidding using Intelligent Gravitational Search Algorithm for profit maximization of power suppliers in an emerging power market,” Intelligent Computing Techniques for Smart Energy Systems (ICTSES’ 18), [Lecture Notes in Electrical Engineering - Springer](https://www.springer.com/series/7818). | 2018 |
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|  | Saurabh Ratra, Rajive Tiwari and K. R. Niazi, “Voltage stability enhancement by the coordinated operation of OLTCS in the presence of wind turbines using Taguchi method," The Journal of Engineering, IET, Vol. 2017, No. 13, pp.1499-1504, 2017. | 2017 |
|  | Saurabh Ratra, Abhishek Gupta, Rajive Tiwari, “Artificial bee colony based optimal allocation of micro-turbines for voltage stability improvement of distribution systems," Proc. IEEE Asian Conference on Energy, Power and Transportation Electrification (ACEPT 2017), Singapore. | 2017 |
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|  | Jagrati Sahariya, Pancham Kumar, K.C. Bhamu, Amit Soni, “Optoelectronic analysis of CdGa2Te4 for solar cell applications: A theoretical study”International Conference on “New and Renewable Energy Resources for Sustainable Future” (ICONRER-2017), 02-4 February 2017, SKIT, Jaipur | 2017 |
|  | Pancham Kumar, Jagrati Sahariya, Amit Soni and K. C Bhamu, “Optoelectronic Analysis of CdGa2X4 (X= S, Se): A Promising Material for Solar Cells,” Materials Science Forum, vol. 900, pp. 69-73, 7th -9th Jan. 2017, Nanyang Technological University, Singapore. | 2017 |
|  | Satyendra Singh and Manoj Fozdar, “Generation bidding strategy in a pool-based electricity market using oppositional gravitational search algorithm,” in 14th IEEE India Council International Conference (INDICON), pp. 1-6, 2017, IIT Roorkee, DOI: 10.1109/INDICON.2017.8487910 | 2017 |
|  | Saurabh Ratra, Pradeep Singh, Rajive Tiwari, “Soft computing techniques for congestion management in power systems", Power Electronics, Intelligent Control and Energy Systems (ICPEICES), IEEE International Conference, on (pp. 1-5). IEEE, 4th 􀀀 6th July 2016.Poddar International College, Jaipur in association with International associations of Academicians, USA on 27th March 2016. | 2016 |
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|  | Sujil, A., Simran Choudhary, Jatin Verma, and Rajesh Kumar. "Agent based intelligent fault detection, isolation and restoration in smart power system." In *Electrical, Electronics and Computer Science (SCEECS), 2016 IEEE Students' Conference on*, pp. 1-6. IEEE, 2016. | 2016 |
|  | Singh, Prashant, A. Sujil, and Prabhat Kumar. "Analysis and comparison of batteries charging time for stand alone photovoltaic system." In *Power Systems (ICPS), 2016 IEEE 6th International Conference on*, pp. 1-4. IEEE, 2016. | 2016 |
|  | Sreekumar, Sreenu, Jatin Verma, A. Sujil, and Rajesh Kumar. "New short term load forecasting models based on growth rate scaling and simple averaging." In *Power Systems (ICPS), 2016 IEEE 6th International Conference on*, pp. 1-6. IEEE, 2016. | 2016 |

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| **School of Computing Skills** | | |
| 1 | Tejashri Mane and Milan Sasmal\*, “Channel Dimension Dependent Electrical Study for Performance Analysis of Low Dimensional n-MOSFET Device”, IETE Journal of research, vol.-00, Page-1-7, 2019. | 2019 |
| 2 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “Low Power Fault Tolerant Latches and Flip-Flops-Design and performance Analysis”, LAMBERT Academic Publishing, ISBN: 978-613-9-45302-3, Pages 152, Feb 2019. Link: <https://www.morebooks.shop/store/gb/book/low-power-fault-tolerant-latches-and-flip-flops/isbn/978-613-9-45302-3> | 2019 |
| 3 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “Power Analysis of Novel Glitch Resistant DET-FF”, IJEDR, ISSN: 2321-9939, vol. 7, no. 1, pp. 96-100, Jan 2019. | 2019 |
| 4 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “Low Glitch DET-FF for Low Power Integrated Applications”, International Conference on Signal Processing and Integrated Networks (SPIN), Amity University, Noida, 7th-8th March, 2019. **DOI:**[10.1109/SPIN.2019.8711740](https://doi.org/10.1109/SPIN.2019.8711740). | 2019 |
| 5 | Milan Sasmal, ‘[Fabrication of BSA-MoS Bio-Composite Electronic Devices for Low-Power and Fast-Response Chemical Sensor](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=8434217&source=authoralert)’, IEEE Sensor Journal, October 2018, volume 18, issue 20, pp 8223-29. | 2018 |
| 6 | Soma Kumawat, M. Ravi Kumar, "Design of Variable Weight code for multimedia service in SAC-OCDMA systems", IET Optoelectronics, vol.12 (2), pp. 56-64, 2018. | 2018 |
| 7 | N. Mishra, L. P. Verma, P. K. Srivastava, A. Gupta, “An Analysis of IoT Congestion Control Policies” Procedia Computer Science, 132,444-450, 2018 (SCOPUS-Elsevier) | 2018 |
| 8 | Kumkum Garg, ‘Technical skills needed in today’s Computer and IT industry’, published in e-magazine Business World Education, 28 August 2018, India | 2018 |
| 9 | Kumkum Garg, ‘Skill development for IoT’, in Telecom Sector Skill Council’s e-Magazine Telco-Times, issue 4, pp21-22, http://www.tsscindia.com/media/2653/telco-times-issue-4.pdf February 2018. | 2018 |
| 10 | Vikram Raju R, Umashankar Rawat, and Kumkum Garg, ‘Secure Route Optimization in NEMO using ECC and Stream Cipher Cryptography’, In Proceedings of the 4th International Conference on Engineering & MIS 2018 (ICEMIS '18). ACM, New York, NY, USA, Article 41, 7 pages. DOI: <https://doi.org/10.1145/3234698.3234739> | 2018 |
| 11 | Vikram Raju R, Umashankar Rawat, and Kumkum Garg, ‘A Bilinear Pairing Based Key Management Security Scheme to NEMO in Heterogeneous Networks’, In Proceedings of the 4th International Conference on Engineering & MIS 2018 (ICEMIS '18). ACM, New York, NY, USA, Article 40, 7 pages. DOI: <https://doi.org/10.1145/3234698.3234738> | 2018 |
| 12 | Sumitra Singar and P. K. Ghosh, “Fault-Free D-Latch Configurations for Low Power Applications”, Journal of Nanoelectronics and Optoelectronics, ISSN/ISBN: 1555-1318, vol. 13, no. 5, pp. 701-707, 2018. (SCI indexed) | 2018 |
| 13 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “A Glitch Free Novel DET-FF in 22nm CMOS for Low Power Application”, Journal of Nanotechnology, Hindawi, ISSN/ISBN: 1687-9503, vol. 2018, Article ID 2934268, 10.1155/2018/2934268, pp. 1-6, March 2018. (SCOPUS indexed) | 2018 |
| 14 | Milan Sasmal, Santanab Majumder and T. K. Bhattacharyya, “Fabrication of BSA-MoS2 bio-composite electronic devices for low power and fast response chemical sensor”, *IEEE Sensor Journal*, 2018, DOI-10.1109/JSEN.2018.2865123, ISSN- 1530-437X, IF-2.61 | 2018 |
| 15 | V.K. Sharma, L.P. Verma, and M. Kumar, “A Fuzzy-based Adaptive Energy-Efficient Load Distribution Scheme in Ad-hoc Networks”, International Journal of Intelligent Systems and Applications, 10,2, 72-84,  2018 (SCOPUS). | 2018 |
| 16 | L.P. Verma, V.K. Sharma and M. Kumar, “New Delay-Based Fast Retransmission Policy for CMT-SCTP”, Intl Jl. of Intelligent Systems and Applications, 10, 3, 59-66, 2018 (SCOPUS) | 2018 |
| 17 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “Design and Performance Analysis of Advanced Glitch Free DET-FF in 45nm CMOS Technology”, in Intl Journal of Electronics, Electrical and Computational System (IJEECS), vol. 7, no. 2, pp. 88-93, Feb 2018. | 2018 |
| 18 | Soma Kumawat, M. Ravi Kumar, "A review on code families for a SAC-OCDMA systems ", OWT, MNIT Jaipur, 2018. | 2018 |
| 19 | L.P. Verma and M. Kumar, “An adaptive data chunk scheduling for concurrent multipath transfer” Computer Standards & Interfaces, 52, 97-104, 2017 (SCI-Elsevier) | 2017 |
| 20 | M Thukral, K Sherpa and K Garg, ‘Design of a Robust Receiver for Chaotic Switching Maps of DC-DC Power Electronics Transmitter Converters for Secure Communication’, in Journal on Security and Communication Networks, id SCN-14-0907.R1, 2017. http://mn.manuscriptcenral.com/scn | 2017 |
| 21 | A Panwar, S Jaidka, A Singh, R Kumawat, K Garg, ‘Eyrie Smart Home Automation using Internet of Things’, International Computer Conference, July 2017, UK. | 2017 |
| 22 | Sumitra Singar, N. K. Joshi and P. K. Ghosh, “Novel Fault Resistant D-Latch for Low Power VLSI Design”, in International Journal of Engineering and Manufacturing Science (RIP), Volume 7, Number 2 (2017), pp. 383-391, Dec, 2017. (UGC Approved | 2017 |
| 23 | Sumitra Singar and P. K. Ghosh, “Unique Robust Fault Resistant D-Latch for Low Power Applications” in International Conference on Computer, Communications and Electronics (Comptelix), pp. 16-20, 978-1-5090-4708-6/17/$31.00 ©2017 IEEE, July 01-02, 2017. | 2017 |
| 24 | Sumitra Singar and P. K. Ghosh, “Near threshold impact on delay in a low power D-latch with technology variations”, Book: Renewable Energy and Smart Grid Technology-1st Ed-Bloomsbury, pp. 265-271, Feb. 2017. | 2017 |
| 25 | Soma Kumawat, M. Ravi Kumar, "Development of ZCCC for multimedia service using SAC-OCDMA systems", Optical Fiber Technology, vol. 39, pp. 12-20, 2017. | 2017 |
| 26 | Soma Kumawat, M. Ravi Kumar, "A new code construction algorithm based on Double Weight codes for SAC-OCDMA systems", 2017 International Conference on Computer, Communications and Electronics (Comptelix), Jaipur, 2017, pp.1-6 | 2017 |
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| 28 | Soma Kumawat, M. Ravi Kumar, "2D code construction using DW code families for SAC-OCDMA systems", TENCON, Malaysia, 2017. | 2017 |
| 29 | Sumitra Singar and P. K. Ghosh, “A Survey on Runtime-Leakage Reduction Techniques in VLSI Design”, in International Journal of Engineering Science and Computing, Vol. 6 Issue No. 7, pp. 1986-1988, July 2016 | 2016 |
| 30 | Milan Sasmal, Anindya Lal Roy and Tarun Kanti Bhattacharyya, “Low-field transport in bovine serum albumin conjugated ZnO nanoparticle networks”*, IEEE Electron Device Letter,* vol.37, no.1, pp. 100-102, 2016. DOI: 10.1109/LED.2015.2503986, ISSN: 0741-3106, IF- 3.01 | 2016 |
| 31 | Milan Sasmal, Tapas Kumar Maiti, Tarun Kanti Bhattacharyya, “Conjugation of Bovine Serum Albumin with ZnO nanosphere-A novel approach for ultra-low level mercury ion detection” *IEEE Transaction on Nanobioscience,* vol- 15, no-7, pp.748-755, 2016, DOI: 10.1109/TNB.2016.2614437, ISSN: 1536-1241, IF-2.77 | 2016 |
| 32 | Milan Sasmal, Tapas Kumar Maiti and Tarun Kanti Bhattacharyya, “Synthesis of Bovine Serum Albumin conjugated with ZnO nanosphere for high speed humidity sensing application” *IEEE Sensor Journal,* vol. 16, no. 6, pp. 1510-1517, 2016. DOI: 10.1109/JSEN.2015.2503363, 1530-437X, IF-2.51 | 2016 |
| 33 | Sankhya Bhattacharya and Milan Sasmal\*, “Immobilization of Bovine Serum Albumin upon Multiwall Carbon Nanotube for high speed humidity sensing application” *IEEE Transaction on Nanobioscience*, vol.15, no. 1, pp. 27-33, 2016. DOI: 10.1109/TNB.2015.2511622, ISSN: 1536-1241, IF-2.77. | 2016 |
| 34 | Soma Kumawat, M. Ravi Kumar, "Generalized Optical Code construction for Enhanced and Modified Double Weight like Codes without mapping for SACOCDMA systems", Optical Fiber Technology, vol. 30, pp. 72-80, 2016. | 2016 |
| **School of General Education** | | |
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**Consultancy and Allied Activities**

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| **School of Automotive Skills** | |
| 1. | **Consultancy**  Divide By Zero: this is a Mumbai based company and manufactures 3D printers which are based on FDM technology, recently they have started manufacturing printers based on SLS technology for which they sought our help and a consultancy worth 11,000/ Rs. was provided to them for manufacturing some parts of the printer at BSDU.  Studio34: This company works on product design and automotive design and styling and is based in Gurugram, they sought our help to 3D print a product design provided by them a consultancy for same was provided to them worth Rs. 11,000/  Infentometer with SRK Corporation Jaipur: This company is seeking our help for design and manufacturing of a die by using the injection moulding process for which the consultancy will be provided by BSDU, the discussions are in process to finalize the terms. |
| **HVAC &R Skills** | |
| **1** | **Educational Programmes**   * The Department has organized various STC/Training the details are as followings: * A workshop/STC/ Training on **IoT in Manufacturing** organized by School of HVAC&R on 15 to 17 October 2018 in collaboration with NITTTR Chandigarh. * The school of HVAC&R organized Training of Trainer programme in collaboration with ESSCI from 28-31 March 2019 at BSDU Jaipur. * The school of HVAC&R conducted HPMP-II Phase AC Field technician training sponsored by ESSCI from 19-21 April 2019. |
| **2** | **Industrial Trainings**  Daikin Air-conditioning India Pvt, Limited Jaipur has Successfully conducted **RA invertor** training at BSDU Jaipur from 25-26 February 2019. A total of 35 no of participants Participated in this training. The participants were from different region of Rajasthan. |
| **3** | **Government of India project**  The school has recently got Government of India project in which the target of training 1 lac skilled technician in the field of air conditioning. School of HVAC&R become as an authorized training Centre of training skilled professionals. |
| **4** | **Train the trainer program by various industries**   1. **Daikin Air-conditioning Pvt. Ltd., Neemrana (17 -21 July 2017)**   Training covering principles of air-conditioning, product knowledge, installation basics, introduction to VRV.   1. **Climatech Aircon Engineers Pvt. Ltd.**   Hands on training on installation of high wall AC, flaring, swaging, cutting, bending, brazing, refrigerant charging and discharging, vacuuming, basic troubleshooting   1. **Zamil air-conditioners (3 -15 jan,18)**   Training on air-cooled chilling plant (HVAC drawings, plant drawings, heat load). Basic understanding of Chiller, heat pump, forced draft ventilator (FDV), AHU, fan coil unit, FCU, Treated fresh air.   1. **Welding Training** **(26 February -15 march,2018)**   Mr. Najmool Trainer got training on welding at Polytechnics school. understood how to do Manual Metal Arc welding, Tungsten Inert Gas Welding, Metal Inert Gas welding, Oxy Acetylene gas welding and BRAZING of various materials such as Mild Steel, Stainless Steel, Copper, Brass and cast iron.   1. **Daikin Commando service training (21-23 march,18)**   Fundamental of Air conditioning. identification of indoor and outdoor fan motor and its checking. Training of basic mechanical, electrical trouble shooting, fault finding of various components such as fan motors and PCB etc. overall performance checking of air conditioning system.   1. **Daikin Air-conditioning Pvt. Ltd. ACDC, Neemrana (2-12 May 2018).**   Training covering principles of air-conditioning, product knowledge, installation basics, introduction and installation to VRV. |
| **School of Carpentry Skills** | |
| **1** | **Consultancy**  Test project plan for NSDC for conduct of India Skills Competition in May 2018 and Sep 2018 and Feb 2019 |
| **2** | **Education programmes**  03 Boot camp workshops conducted in Aug18, Sep 18 and Feb 19 for world skill competition participants |
| **School of Manufacturing Skills** | |
| **1** | **Consultancy**  **Industrial Trainings**   * Ceratizit Employee Training   Schedule: 23-10-2017 to 18-11-2017  No. of participants: 14   * Mahindra & Mahindra Employee training and Competition   Schedule: 02-12-2019 to 06-12-2019  No. of participants: 12  **Consultancy/ Industrial Product Development**   * HMT Machine Tools Ltd. Ajmer is wholly owned subsidiary of HMT Machine Tools Ltd. functioning under HMT Limited (Govt. of India Enterprise) and engaged in the manufacture of various types of precision grinding machine tools.   SMS received an order for the development of 16 various types of components used in their grinding machines (Order No. HMT/SVD/19/13 dated 14-12-2019) |
| **School of Entrepreneurship Skills** | |
|  | 1. Established Institution Innovation Council (IIC) at BSDU to carry out the innovative activities. IIC-BSDU was registered on 21st November 2018 at AICTE, New Delhi. 2. The IIC center successfully held *Grand Finale of Smart India Hackathon (SIH)-2019 Hardware Edition* from 08 to12 July 2019 sponsored by Ministry of Human Resource Development, Govt. of India. 3. Coordinated one-week residential program “Training of Trainers Program for Vocational Trainers” (28 January to 01 February 2019). The program was conducted by Rajasthan Council of Secondary Education (RCSE) and sponsored by the Govt. of Rajasthan. 4. Organized Training of Trainers conducted by Management and Entrepreneurship & Professional Skills Council (MEPSC) on 20-21 June 2019. 5. Organized two day “All India Seminar on Advances in Manufacturing Systems and Composites Fabrication(13-14 July 2019)” in Association with The Institutes of Engineers (India); Bikaner Technical University, Bikaner and The Employers' Association of Rajasthan, Jaipur. 6. Organized International Conference on “Skill & Employability in the field of Engineering & Management “Sponsored by LIET Alwar in association with Institution of Engineers, Rajasthan Chapter and Bhartiya Skill Development University, Jaipur at LIET Alwar on December, 27-28, 2019. 7. Organized NSTEDB and Department of Science & Technology (DST), Govt. of India sponsored 3 days Entrepreneurship Awareness Camp in BSDU on December 26-28, 2019 under the project namely “DST-NIMAT” sponsored by Entrepreneurship Development Institute of India. |