

भारतीय  
indian handicrafts  
हस्तशिल्प  
continuing tradition



# CHAIRMAN

शांतमनु, भा.प्र.से.  
विकास आयोग (हस्तशिल्प)  
Shantmanu, I.A.S.  
Development Commissioner (Handicrafts)



भारत सरकार  
दक्षिण मंत्रालय  
परिचाली खण्ड-7, रामकृष्णपुरम,  
नई दिल्ली-110 066  
Government of India  
Ministry of Textiles  
West Block-7, R.K. Puram,  
New Delhi-110 066

## MESSAGE


I am delighted to present the Annual Report of Indian Institute of Carpet Technology (IICT) for the year 2019-20.

The performance of the IICT, in all its four portfolios: Human Resource Development (HRD), Design Creation & Development (DCD), Research & Development (R&D) and Technical Support to Industry (TSI) deserves appreciation.

The institute is also involved in various important projects like LED based solar light distribution and other training projects to upgrade/develop skill of ST category to create human resource for the carpet industry.

Further, the institute is also playing a vital role in providing efficient, reliable and professional services as evident from continued accreditation of IICT labs from NABL and of B. Tech. Course from Textile Institute (Manchester). This has strengthened the academic repute of IICT.

I wish IICT to continue its efforts in making the carpet sector education and industry support – overall progressive and result oriented.

  
(Shantmanu)

Date: 23<sup>rd</sup> September, 2020.



## VICE CHAIRMAN

मुदिता मिश्रा  
अपर विकास आयोग (हस्तशिल्प)  
**MUDITA MISHRA**  
Addl. Development Commissioner (Handicrafts)



भारत सरकार  
वस्त्र मंत्रालय  
पश्चिमी खण्ड-7, रामाकृष्णपुरम,  
नई दिल्ली-110 056  
Government of India  
Ministry of Textiles  
West Block-7, R.K. Puram,  
New Delhi-110 066



Date: - 11<sup>th</sup> September, 2020

### Message from the Desk of Vice-Chairperson

I will take this moment to appreciate consistent performance of IICT achieved in all its four portfolios as illustrated in the Annual Report for the financial year 2019-20.

It was admirable to hear that the students of IICT got admitted at reputed Institutes like IIT and various esteemed organizations in the field of Carpet Industry.

I hope IICT continues to work diligently towards achieving excellence as a centre of learning and wish them all their future endeavors.

  
(Mudita Mishra)



# DIRECTOR



निदेशक  
भारतीय कालीन प्रौद्योगिकी संस्थान  
विकास आयुक्त (हस्तशिल्प),  
वस्त्र मंत्रालय भारत सरकार के अधीन  
अ.क.प्राविधिक विश्वविद्यालय द्वारा संबद्ध एवं  
आभातशिप, भारत सरकार द्वारा अनुमोदित

Director,  
**Indian Institute of Carpet Technology**  
Under the aegis of the  
development Commissioner (Handicrafts),  
Ministry of Textiles, Govt. of India  
Affiliated with A. K. Technical University  
& Approved by AICTE, Govt. of India



प्रो० (डा०) आलोक कुमार, निदेशक  
Prof. (Dr.), Alok Kumar, Director

*Message.....*



from The Desk of Director, IICT

I take great pleasure in presenting the annual report of IICT for the year 2019- 20. The contents of this report reveal that management & staffs have put continuous & sustained efforts to achieve the set targets.

The performance of the Institute in all the portfolios like, Human Resource Development (HRD). Design Creation & Development (DCD). Research & Development (R&D) & Technical Support Service to Industry (TSI) remained satisfactory.

The passed out B. Tech students of IICT are Serving The Carpet & allied Industry up to the satisfaction of the employer and trying to contribute the best possible efforts in the journey towards the growth & development of the industry.

I hope that IICT will continue to move in the right direction to become a centre of Excellence in all the portfolios as mentioned above.

I am extremely thankful for the efforts and support of the Development Commissioner (Handicrafts) & Chairman, IICT, in all our endeavors to achieve the set targets.

I also acknowledge the support of Vice-Chairman, IICT, Executive Committee (EC) members, U. P. Govt., local administration, AKT University, AICTE.

Co-operation from Carpet Export Promotion Council (CEPC). All India Carpet Manufacturer Association (AICMA), RCMEA-Jaipur, EUPEA-Varanasi, AICEA. Mirzapur. AICYSDA-Bhadohi etc. has also been commendable.

Commitment of IICT Faculty & staff members has also been remarkable and I hope that the same would be continued to maintain the set standards in the field of discipline & performance.

**Prof. Dr. Alok Kumar**  
Director, IICT



**Indian Institute of Carpet Technology**, popularly known as IICT, has been set up by Ministry of Textiles, Govt. of India in 1998 as a registered Society under the Society Registration Act, 1860. IICT became truly functional in the year 2001

by launching B.Tech. ( Carpet & Textile Technology) programme, a unique degree programme of its kind, with 20 intake which has been increased subsequently to 60. IICT was set up by Ministry of Textiles, Govt. of India to provide all possible technical support to the Carpet, Textile & other related sectors in the form of technical experts, Research & Development, etc. for the continual growth & to make the industry competitive at the world level. Institute has been constantly trying to fulfill long time pending demand of the sector for technical experts through its B.Tech. technocrats. Industry has also come forward and placed these technocrats suitably in various organizations. IICT is providing world class quality education to its students by targeting to meet the anticipated requirements of the stake holders through formal or informal feedbacks from the various organizations time to time. In addition to B.Tech. other trainees of the institute in various courses have also been doing well and holding good positions in the organizations. The laboratories of Institute are **NABL** (National Accreditation Board for Testing and Calibration Laboratories) accredited which makes its testing reports given to the exporters, valid in many countries of the world. B. Tech. programme of the institute is approved by AICTE, New Delhi & affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

### Campus & Facilities

IICT is situated in Bhadohi which is famous in the world as Carpet belt of India. The stake holders of Bhadohi and adjoining districts can take maximum locational advantage as the institute has been set up at Bhadohi. Bhadohi is about 45 Kms away from holy city Varanasi and about 75 Kms from Prayag City, Allahabad & 30 Km from Mirzapur. The campus of IICT is 4 Kms from Bhadohi Railway Station and situated on Main Road known as Chauri Road on the outskirts of Bhadohi town. The campus is free from all sorts of pollution, providing a peaceful atmosphere for studies and research which is spread over 10 acres of land, that comprises of state of the art Administrative building consisting of Classrooms, Laboratories, Conference Hall, Library, Design Studio, Museum and Workshops. The campus has quality facilities like separate Hostels for Boys & Girls, residential accommodation for employees, open Air Theater for performing cultural activities, open space for Games, 24 hour electricity supply backed by generator and water supply system having deep bore well. Institute has also obtained 16.5 Acres land from Govt. of Uttar Pradesh at Pipris in Bhadohi, and few infrastructure facilities like Workshop shed, training centre with dormitory and staff quarter have been created.

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## VISION

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- To be a Centre of Excellence in Carpet, Textiles and relevant areas of technical education by promoting, aiding and fostering the development of the sector.

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## MISSION

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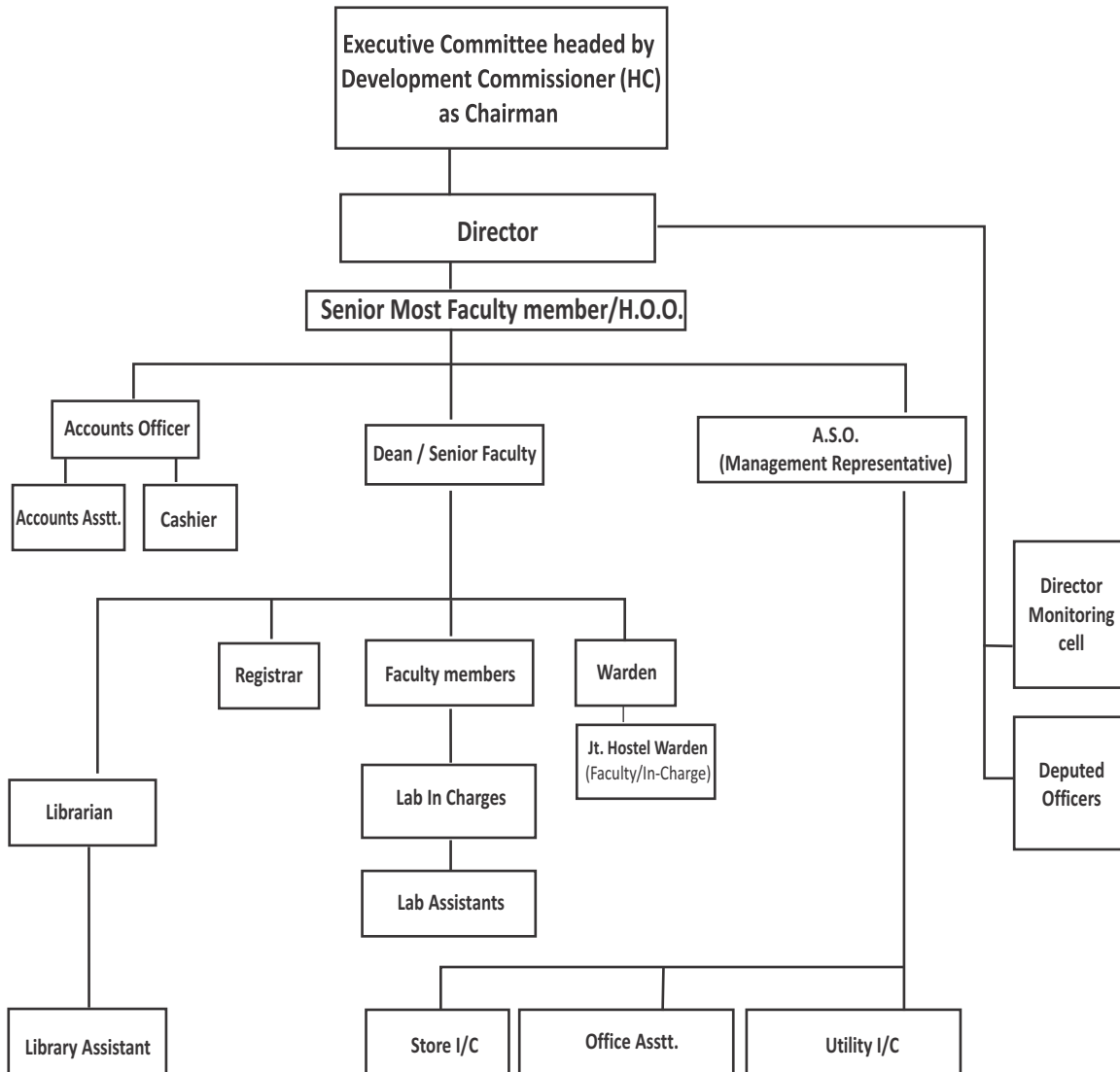
- To create human resources having strong foundation of knowledge in carpet, textiles and relevant areas of technical education and competence in technical communications.
- To promote research & development activities in the area of carpet, textiles and related areas of science and technical education.
- To provide technical support to carpet and allied industries for design creation and laboratory testing.
- To develop entrepreneurs in the field of carpet and allied sectors.

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## QUALITY POLICY

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- To provide qualitative education to our students which targets to meet their anticipated requirements of stakeholders.
  - To render timely and satisfactory services in all portfolios to the Industry and all other stakeholders.
  - To improve Quality Management System on continual basis through complying with the requirements of standards
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## Executive Committee

Members of the Committee as on 31<sup>st</sup> March 2020

1. Shri Shantmanu, IAS, Development Commissioner (HC) & Chairman, IICT, Office of the Development Commissioner (HC), West Block No. 7, R. K. Puram, New Delhi – 110066.
2. Ms. Mudita Mishra, ADC(Handicrafts), Vice-Chairperson, IICT, Office of the Development Commissioner (HC), West Block No. 7, R. K. Puram, New Delhi – 110066.
3. Ex-officio-Secretary, Small Scale Industries & Export Promotion, Govt. of U. P., 4th Floor, Sachivalaya, Lal Bahadur Shastri Bhawan (Annexe), Lucknow – 226001 or his nominee.
4. Director (Finance), Min. of Textiles, Govt. of India, Udyog Bhawan, New Delhi or his nominee.
5. Divisional Commissioner, Vindhyaachal Mandal, Mirzapur, Uttar Pradesh
6. District Magistrate and Collector, Bhadohi, Uttar Pradesh
7. Managing Director, U.P. Export Corporation, Motimahal, 2A, Rana Pratap Marg, Lucknow
8. Chairman/Executive /Director, Carpet Export Promotion Council, 3rd Floor, Niryat Bhawan, Rao Tula Ram Marg, Vasant Vihar, Opp. Army Hospital Research & Referral, New Delhi – 110057
9. President, All India Carpet Manufacturers Association, Maryadpatti, Bhadohi
10. Chairperson, Indian Woollen Mills Federation, Churchgate Chambers, 7th Floor, New Marine, Mumbai- 400 020 or Secretary General as his nominee.
11. Sr. Faculty/Dean/Registrar, IICT- Director's Nominee.
12. Shri Bholanath Baranwal, M/s Shri Bholanath Carpets Ltd, G.T. Road Khachhawan, Varanasi -221307
13. Shri K.R. Wattal, M/s Chinar International, C-153, SEC. 63, Noida-201 301 UP
14. ED, Central Wool Development Board, Ministry of Textiles, Govt. of India, C-3, Shastri Nagar, Near Shastri Nagar Circle, Jodhpur 342 003 (Raj)
15. ED, National Centre for Design and Product Development (NCDPD) (Set up by Ministry of Textiles, GOI), Hall No.1 (3rd Floor), Rajiv Gandhi Handicrafts Bhawan, Baba Kharak Singh Marg, Connaught Place, New Delhi-110 001.
16. Head of the Department, Dept. of Textile Technology, IIT, Hauz Khas, New Delhi
17. The Principal, Govt. College of Engg. & Textiles Technology, 12, William Carey Road, Serampore, Hooghly -712201, West Bengal, India.
18. Secretary, Textile Committee, GOI, Ministry of Textiles, P.Balu Raod, Prabhadevi Chowk, Prabhadevi, Mumbai 400 025 - Invitee
19. Director, CSTRI, CSB Complex, BTM Layout, Madivala, Bangalore-650 068
20. Director, All India Council For Technical Education (AICTE), Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
21. Prof. Arindam Basu, Director General, NITRA, Sec-23, Raj Nagar, Ghaziabad-201002
22. The Director or nominee, National Accreditation Board for Testing & Calibration Laboratories, NABL House, Plot No. 45, Sector 44, Gurgaon - 122002, Haryana
23. Sr. AD/AD, O/o Development Commissioner (Handicrafts), West Block No. 7, R. K. Puram, New Delhi–110066
24. Director, IICT, Bhadohi-Member Secretary

### Executive Committee Meeting & Annual General Meeting held during the year

ECM	AGM
63 <sup>rd</sup> EC meeting dated 13.09.2019 at New Delhi	18 <sup>th</sup> AGM dated 13.09.2019 at New Delhi



### Overall Strength as on 31<sup>st</sup> March 2020

SL.No.	Name of the Employees	Designation	Qualification
1.	<b>Prof.(Dr.) Alok Kumar</b>	Professor, Director	B.Tech. (IIT Delhi), M.Tech. (IIT Delhi), Ph. D. (IIT Delhi)
<b>Faculty members</b>			
2.	<b>Prof.(Dr.) Sanat Kr. Pal</b>	Professor	B.Tech., M.Tech. & Ph. D.(MSU - Baroda - Vadodara)
3.	<b>Dr. R.K.Malik</b>	Associate Professor	B.Tech., M.Tech. (IIT Delhi), Ph. D. (APJAKTU Lucknow)
4.	<b>Dr. S.K. Pandey</b>	Associate Professor	M.C.A, M.Tech (CS), MBA, Ph. D. (APSU -Rewa)
5.	<b>Dr. R. Karmakar</b>	Associate Professor	B.F.A., MA (Painting), Ph. D. ( Pu. University Jaunpur))
6.	<b>Dr. Betty Dasgupta</b>	Assistant Professor	B.Sc.(Tech.), Ph. D. (IIT BHU)
7.	<b>Dr. Anu Mishra</b>	Assistant Professor	B.Tech., M.Tech. (IIT Delhi), Ph. D. (IIT Delhi)
8.	<b>Dr. Shravan Kr. Gupta</b>	Assistant Professor	B.Tech., M.Tech., Ph. D. (APJAKTU Lucknow)
9.	<b>Dr. H. S. Mohapatra</b>	Assistant Professor	B.Tech., M.Tech., Ph. D. (NIT Jalandhar)
10.	<b>Dr. Moumita Bera</b>	Assistant Professor	B.Tech., M.Tech. (IIT Delhi), Ph. D. (IIT Delhi)
11.	<b>Dr. Atanu Manna</b>	Assistant Professor	Ph. D. (IIT Kharagpur)
12.	<b>Shri Jayant Deshpande</b>	Librarian	M. Com, M. Lib. PGDCSC
<b>Unit In Charges</b>			
13.	<b>Er. B.C. Ray</b>	Workshop I/c	M.Tech (Textile Engg.), MHRM, MA (Public Admn), MIE.
14.	<b>Shri C.S.Bajpai</b>	Design Lab I/c	B.F.A., M.F.A. (Textile Design) FVA-B.H.U.
15.	<b>Shri Dipankar.Jana</b>	Chemical Lab I/c	M.Tech. (Textile Engg.) IKJPTU-Punjab
16.	<b>Shri Anupam Agrawal</b>	Physical Lab I/c	M.Tech. (Textile Engg.) IKJPTU-Punja
<b>Lab Assistants</b>			
17.	<b>Shri Jaihind Chauhan</b>	Lab Assistant	Diploma in Textile Processing Technology
18.	<b>Shri Amitabh Chatterjee</b>	Lab Assistant	Diploma in Mechanical Engg.
19.	<b>Mrs. Preeti Chaurasia</b>	Lab Assistant	Diploma in Handloom Technology
20.	<b>Shri Govind Yadav</b>	Lab Assistant	B. Tech.
21.	<b>Shri Darpan Singh</b>	Comp. Lab Assistant	M.C.A., M. Tech. (CSE)
<b>Administrative Staff</b>			
22.	<b>Shri Siddhartha Shukla</b>	Admin. Cum S. Officer	B. Tech. (Civil Engg),
23.	<b>Sh. Durgesh Kumar Tripathi</b>	Accounts Officer	M. Com.
24.	<b>Shri Umakant Srivastava</b>	Admin Assistant	MBA (HRM)
25.	<b>Mohd. Waseem Ansari</b>	Library Assistant	MBA (HRM)
<b>Other Staffs</b>			
26.	<b>Shri Jagdish</b>	Unskilled Worker	Intermediate
27.	<b>Shri. Vijay Kumar Gupta</b>	Electric Technician	ITI (Electrical)
28.	<b>Shri Naresh Kumar</b>	Driver	–

**Ph.D. Awarded**

**R.K.Malik**, PHD awarded by APJAKTU on 16.10.2019 in Carpet Technology  
Topic: **INFLUENCE OF CHEMICAL PROCESSING ON FUNCTIONAL PROPERTIES OF  
HANDMADE WOOLEN CARPETS**



**R&D Activity**

1. Atanu Manna, : Approximative compactness & property  $k$ -UC in some sequence spaces, and new integral inequalities of Hardy-type, DST-SERB (MATRICS)
2. Atanu Manna, : Application of Statistical Methods in Engineering and its Allied Disciplines, AICTE, New Delhi

**Journal Publication**

1. S. M. Ishitiaque, Alok Kumar, Impact of progressive yarn extension on angular fibre orientation, Journal of Textile Institute, February 2020.
2. S. M. Ishitiaque, Alok Kumar, Impact of progressive yarn extension on fibre helix twist in cross sectional and longitudinal direction of yarn, Journal of Textile Institute, February 2020.
3. A. Manna and P. D. Srivastava, Property  $(k-\beta)$  of Musielak-Orlicz and Musielak-Orlicz-Cesaro spaces Revista de la Real Academia de Ciencias, Exactas, Fisicas y Naturales, Serie A, Matematicas, 113(2), 471-486, 2019, Springer.
4. A. Manna, Norm inequalities involving upper bounds of certain matrix operators in Orlicz-type sequence spaces J. Anal., 27(3), 2019, 761-779, Springer
5. S. Mahto, A. Manna, P. D. Srivastava, Bigeometric Cesaro difference sequence spaces and Hermite interpolation Asian-Eur. J. Math., 13(4), 23 pages, 2020, World-Scientific
6. A. Manna, New Hardy-type integral inequalities Acta Sci. Math. (Szeged), 25 pages, 2020 (To appear), Bolyai Institute, University of Szeged, Hungary.
7. Anu Mishra, Himansu Shekhar Mohapatra and B.S. Butola, "Imparting Protection against UV Radiations Using In Situ Coating of Titanium Dioxide on Textiles", International Letters of Chemistry, Physics and Astronomy, 82, 14-20, 2019.
8. Shravan Kumar Gupta Comparison of multi-criteria decision making methods for selection of handmade carpets Journal of Natural Fibers, DOI: 10.1080/15440478.2020.1758864, Published online: 07 May 2020 Indexed
9. M BERA Study on Tuft Withdrawal Force and Compressibility of Hand-Tufted Carpet Journal of The Institute of Engineers (India): Series E, 100, 175–181, 2019 & SPRINGERSCOPUS.

**Conference/ Workshops**

1. Participated in AICTE workshop: Examination Reform Workshop On 24.9.2019
2. Betty Dasgupta, : Workshop AICTE Ukieri Technical Education Leadership Development Program 29<sup>th</sup> July to 2<sup>nd</sup> August 2019, 4<sup>th</sup> to 7<sup>th</sup> December 2019
3. Himansu Shekhar Mohapatra ,Development and characterization of of heating pad from waste woolen Carpets, International Conference on Functional Materials: Synthesis, Characterization and Applications during 28<sup>th</sup> to 30<sup>th</sup> November 2019

4. International Conference : "New fractional integral inequalities" 85<sup>th</sup> Annual Conference of Indian Mathematical Society, IIT Kharapur, Nov. 22-25, 2019
5. Seminar "Geometric properties of Certain Modular Spaces" Symposium of Geometry of Banach Spaces, IIT Hyderabad, Dec. 1-2, 2019
6. Workshop : NBA accreditation and Outcome based education, UPID, AKTU, Jan. 29-30, 2020
7. Seminar/Webinar : Recent trends on COVID-19: Mathematical Modellings and their Social impacts
8. Workshop : Refresher Workshop (FDP) on 'Human Values and Professional Ethics', ITM Gorakhpur, June. 13-20, 2019

**Participation in Carpet Expo**

1. C S Bajpayee, "India Carpet Expo-2019", Sponsored by CEPC at SSU, Varanasi, 11/10/2019 to 14/10/2019.
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IICT is functioning through its four portfolios namely :-

1. HRD (Human resource development)
2. DCD (Design creation & development)
3. R&D (Research & development)
4. TSI (Technical support to industry)

## 1. HRD (Human Resource development) **IICT PORTFOLIO**

### **B.Tech. course in Carpet and Textile Technology (CTT):**

Started in the year 2001. Thereafter, specializations in Advances in Carpet Technology (ACT)/Home Textile Technology (HTT) /Textile Design Technology (TDT) have also been integrated with the due approval of A.K. Technical University, Lucknow. Accreditation to Textile Institute, Manchester, U.K. IICT has been awarded twice Star performing institute of the University.

**655 Students** have graduated till date from institute and placed all over India & abroad in carpet & textile industry. Many students have opted for higher studies in institute like IITs, NITIE, ISM, IIM & NIFT.

Quality education is imparted to B. Tech. students. Many students have been awarded with gold, silver & bronze medals for their academic excellence. Their academic performance are evident from below table :-

#### University topper in Textile Group

Year of Passing	Name of Student Gold Medal	Name of Student Silver Medal	Name of Student Bronze Medal
2010	Ankit Kumar Bhagat	.....	.....
2011	Nisha Kumari	Patanjal Kumar	Anupam Agrawal
2014	.....	.....	Sadiya maqsood
2015	Amreen Fatima	Govind Yadav	.....
2018	Priya Singh	.....	Shivangi Shukla
2019	.....	.....	Gaurav Suneja

### Examination Result and Performance

During Financial year 2019 - 20, 45 students of 15th batch (2015-19) passed B.Tech exam & placed successfully, and

In 7<sup>th</sup> Sem. 54 students appeared in exam.

In 5<sup>th</sup> Sem. 45 students promoted to fourth year (6<sup>th</sup> sem.)

In 3<sup>rd</sup> Sem. 35 students promoted to third year (4<sup>th</sup> sem.)

and 57 students are freshly admitted in 1<sup>st</sup> year

**Admission to B. Tech. 1st year**

Intake in B. Tech. programme is 60. For this, admission is done through JoSAA /CSAB/UPSEE. Out of which 57 candidates had taken admission from the said allotment.

**Tuition Fee**

The Fee structure is Approved by SGM, which is as below :-

**B. Tech. Fee structure**

Newly admitted B. Tech. 1 <sup>st</sup> year & 2nd year Lateral Entry			2nd year, 3rd year, 4th year		
Fee Head	Amount (Rs.)		Fee Head	Amount (Rs.)	
	Hosteller	Non-Hosteller		Hosteller	Non-Hosteller
Tuition Fees	55,000/-	55,000/-	Tuition Fees	40,000/-	40,000/-
Hostel Fees	15,000/-	.....	Hostel Fees	8,725/-	.....
Caution Money	5,000/-*	5,000/-*	Caution Money	-----	-----
AKTU Fee	8,200/-	8,200/-	AKTU Fee	8,200/-	8,200/-
Development charge	10,000/-	10,000/-	Dev. charge	5,000/-	5,000/-
Other Charges	15,000/-	15,000/-	Other Charges	15,000/-	15,000/-
Alumni Registration fees	1000/-*	1000/-*	Alumni Reg. fees	-----	-----
Mess Charges	30000/-	-----	Mess Charges	30000/-	-----
<b>Total</b>	<b>1,39,200/-</b>	<b>94,200/-</b>	<b>Total</b>	<b>1,06,925/-</b>	<b>68,200/-</b>

\*This fees is paid once at the time of new admission .

**Commencement of the Session :**

The new session commenced from 01 August, 2019 for the B. Tech. V & VII- Semester classes and B. Tech I & III Semester classes started from 16<sup>th</sup> August,2019.

**Short Term Courses:**

Besides B. Tech programme, IICT conducts various employment oriented courses that to serve the society as a whole. In the coordination of the above endeavor, 1138 candidates have been trained through ISDS and 3500 artisans have been trained through CHCDS scheme.

Modular Employable Skill (**MES**) based skill development program in Application of Computer and IT in Carpet Manufacturing, Carpet and Textile design using CAD, Yarn dyeing, Carpet weaving, Spinning of woolen yarn, Washing & Finishing of Carpet are being run by the institute. More than 7000 artisans have been trained so far to mitigate the skill gap.

## 2. DCD (Design Creation & Development)



**IICT PORTFOLIO**

Design Bank Created- More than 15000 designs are in place out of which around 3500 designs have been utilized by industry for commercial purpose. 114 designs have been created under design bank .

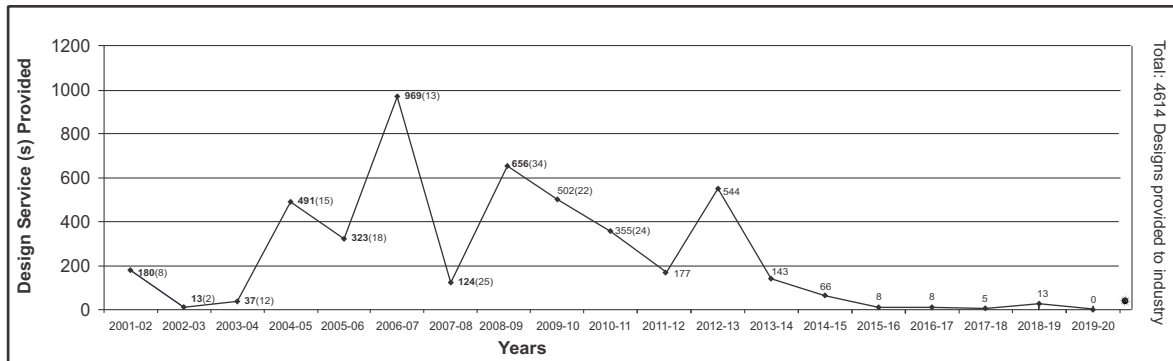
The Design Bank includes Traditional INDIAN Motifs (Like : Harappa, Ajanta, Mughal, Rangoli, Jaipuri, Fulkari, Kantha, Paithani, Kalamkari, Banarasi, Jamewar etc. ), modern motifs etc. as per trend.

Kibby Carpet Sampling Machine is also used by the industry to develop prototype samples of size 18"x18"

**Industry at large has come forward and taken advice and benefitted from design bank, creativity and development of global value at local cost.**

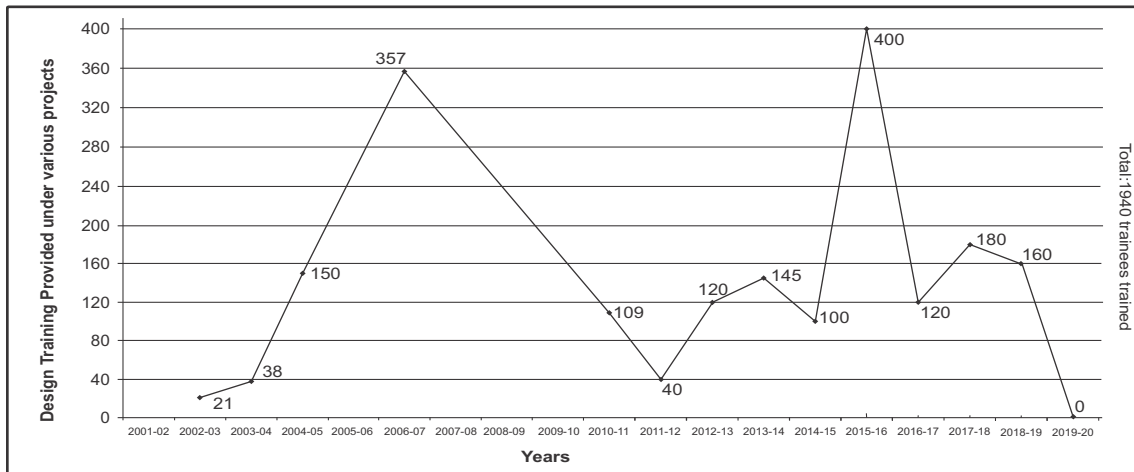
### Design Lab Services

(Graphical representation based on sold designs)



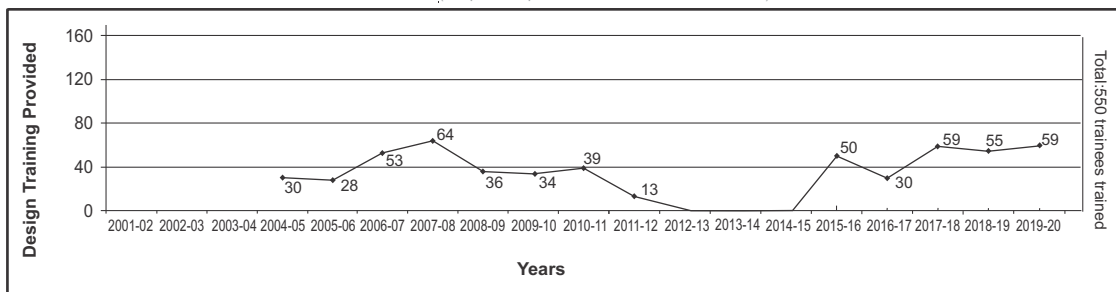
### Trainees trained under various projects through Design Lab

(Graphical representation based on trainees no.)



### Trainees trained by Design Lab

(Graphical representation based on trainees no.)



**A: Product Development:**

Quite a few product development activities have been completed at institutional level and or in collaboration which includes:

- Coir Based Carpet
- Silk Carpet
- Eri silk Carpet
- Modacrylic based carpet
- Handmade Astroturf type Carpet
- Natural fiber based carpet
- Natural dyeing
- Substitute to polyester shaggy
- Bujbun Utilization
- Vertical Blind

- **Coir Paper and Coir Silk**

Another revolutionary research supported by CCRI Alleppey, Kerala of Coir Board, Kochi is continuing for coir silk. Commercial Stage trials with reputed Rayon Manufacturing co. (Grasim & Century Rayon) are being undertaken. The value addition will benefit coconut growers and shall support industrialization for coir paper & coir silk Production in coconut production intensive states like Kerala, Tamilnadu. - A proprietary move on supplement to Make in India Mission - Industry to come forward and explore

- **PPE Coverall (Body Suit and Shoe Cover)**

PPE Coverall (Body Suit and Shoe Cover) developed in two categories- disposable (280gm) and reusable (300 gm) . It has been developed in partnership with Techno- chem Industries. A special coating is done on nonwoven fabric in case of disposable and on polyester in reusable PPE Coverall. PPE suits developed so far are not breathable. Hence they are not comfortable. The newly developed product is breathable and light weight, hence comfortable. It meets the stringent requirement of MoHFW and there fore, recommended for doctors, nurses and other para medical staffs.



Disposable



Reusable

- **Recycling & Reusing of Fibrous Waste of Carpet Industry**

Waste from carpet industry includes fibres like Wool, Jute, Polyester, Nylon etc. Mostly the waste fibres are disposed to landfills, which enhances soil pollution. These waste fibres can be recycled and reused to develop many technical fibrous structures.



In search of innovative product with carpet waste, composite materials were prepared by hand layup technique with carpet waste and unsaturated polyester resin. Ratio of fibre and matrix were changed to meet various end use requirements. IICT developed two products. When the matrix percentage was kept high in the composite, then the product was used as replacement of wood. Similarly, when the fibre percentage was kept high in the composite, the product was used as acoustic material.

- **Fabrication and Evaluation of Heating Pad from Waste Carpet**

Waste woolen hand knotted and hand tufted carpets, all made of 100% wool fibers were made electrically conductive by in situ chemical polymerization of pyrrole. Before polymerization reaction takes place, hydrolysis of handmade and hand tufted carpets were done for better deposition of polypyrrole on the material. The average surface resistivities were found to be 1013.08 and 1234.12  $\Omega\text{m}$ , respectively, for Hand knotted and Hand tufted carpets. It can be used as heating pad for the people suffering from back pain.



● **Application of Jute materials in hand made carpets**

In this research, a study has been done on the application of jute pile yarns in Persian hand knotted carpet and tufted carpet. Three types of commercial yarns (wool, untreated jute and woollenized jute) as well as three types of chemical treated jute yarns (hydrogen peroxide bleached, softened bleached and woollenized yarns) have been applied as pile yarns in hand made carpets. Cost benefit analysis of handmade carpets shows that material contribution of total cost decreases when jute yarns are used as pile.



**B: Technology Up gradation**

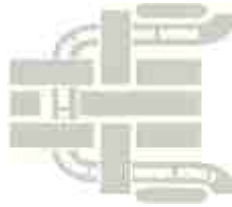
Commendable efforts have made by IICT to up grade the technology being used in the carpet industries. These are :-

- Concept of Ergonomic and Flexible Tufting Frame
- Cross Bar Horizontal Loom CBHL (Wooden or Metallic) for Hand knotted and Tibetan, Shaggy, Soumak etc.



Weavers enjoying the comfort while working in CBHL

- **India Knot:** A proprietary one of IICT which permits semi knotting in loom, a supplement to Make in India Mission - Industry to come forward & Explore



- **Snehabha Carpet Backing System:** Polymer Backing Technology, Light weight, Washable Reported it's features & feasibility in publications like carpet e world



■ **Carpcost Software**

A Piracy proof software has been developed and ready for use on CD for cost calculation of hand knotted carpet . from Rs. 25000/- to support the industry.





#### Continuous Tufting Frame

##### Suitable for Tufted Carpet

It is a manual tufting process using a hand operated or electric tufting Gun for continuous design repeats for large length of carpet.

It has features such as

- Comfortable working environment with ergonomic design of frame.
- Primary Backing Cloth is supplied Continuously from a roller.
- Spike chain for guiding backing cloth with width expanding device.
- Lengthwise stretching of backing cloth by turning cloth roller through hand wheel.
- Simultaneous design printing using tracing paper or alternate use of block printing.
- simultaneous Latex backing with secondary jet.
- Hot air solar inverter drying system (optional).
- Carpet winding roller with capacity up to 200 feet length.
- Superior quality of carpet production at nearly 200 sq inch per hour per weavers.



#### MECHANISED DHURRIE LOOM

##### Suitable for Floual Design Dhurrie Weaving

Features of the machines

It is an improved design of vertical dhurrie loom for Hand made carpet weaving.

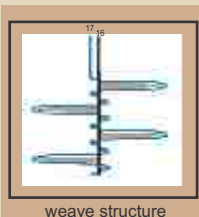
- Arrangement for winding bobbins from hank.
- Arrangement for warping larger length within a comfortable room environment.
- Weaving width in multiple of tree feet with Mechanical jacquard for designing.
- Uniform end spacing and accurate width adjustment
- full width panja for uniform beat up
- larger winding capacity on carpet roller.
- Ergonomic design relieving weavers from fatigue.



#### LENO CARPET LOOM

##### Suitable for Pile Carpet

It is a broad loom producing pile carpet with leno structure for better tuft withdrawal force. vertical colour stripes, horizontal row of cuts or loops, embossing or printing after weaving produce designs on leno carpets. The technique is for hand made carpet and aims to revive the hand made carpet sector in India.



weave structure



#### JACQUARD CARPET LOOM

##### Suitable for Pile Carpet

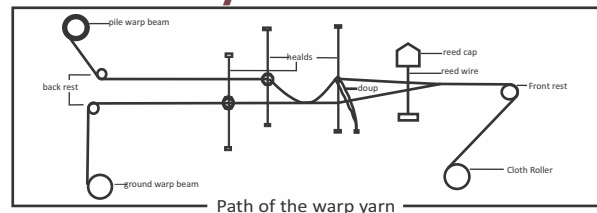


Features

- It is a development of hand loom for floral pile carpet designs.
- Suitable for 2,3,4 or 5 colour designed pile carpets on loop/cut structure .
- Piles are formed by insertion wires in pile warp shed controlled by a mechanical jacquard.
- 200 Creel capacity for each colour pile yarn.
- Cotton warp from beam are controlled by heald shaft.
- Foot pedals operated Shedding for jacquard and heald shaft.
- Hand operated shuttle picking for weft insertion.
- Designed for 36 inch width for 6 piles per inch across carpet, suitable for 3-4 Nm woolen pile yarn.
- Manual card cutting using cutting plate produce endless designs.
- Various thickness wires ranging from 1/4 - 3/4 inch produce pile for different quality of woven carpet.
- The technique is handicraft in nature meant for small weavers in remote villages.

#### Development of woven carpet sturcture

##### Terry Leno Pile Structure



Path of the warp yarn

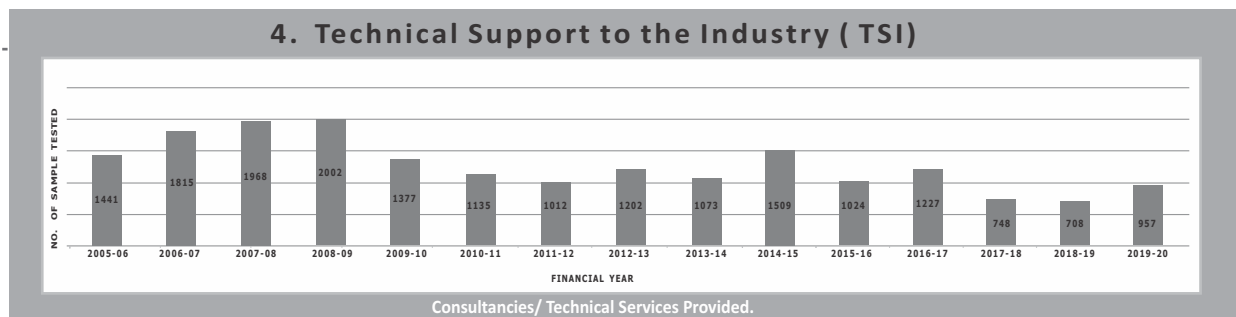


Features

- Carpet prepared on handloom.
- This special handloom has both technology of terry and leno.
- The carpet produced with terry-leno technology has high tuft withdrawal force.
- Cut pile and loop pile both type of carpets can be prepared.

### IICT Laboratory

Institute has been providing continuous technical services to the industry through its laboratory sample testing facilities in the disciplines of mechanical and chemical. It helps to fulfill the needs of carpet exporters to compete with the global market. These laboratories are NABL accredited, hence test reports are acceptable internationally. Carpet Industry has utilized the available testing facilities to confirm the quality requirements of international and national buyers. A total of **957** samples have been tested by IICT laboratory, Generating a total revenue of Rs. **7,68,942/-** during the financial year 2019-20, which is higher than the revenue earned in the previous year by 25%. Industry can hire IICT for consultation to enhance their business performance.



### List of Kaleen Bandhu Members (as on date 31.03.2020)

1. M/s. Bholanath International, Varanasi
2. M/s. Sahara Kasturi Handicraft Ltd., Lko
3. M/s. Jaya Shree Textiles, Rishra
4. M/s. TAG BROS, New Delhi
5. M/s. ABC Industries, Mirzapur
6. M/s. Peerless Carpet Palace, Bhadohi
7. M/s. GSL Textile India Pvt. Ltd., Ludhiana
8. M/s. Concept Creations, Panipat
9. M/s. Gloster Jute Mills Ltd., Kolkata
10. M/s. Jaipur Rugs Co. Pvt. Ltd., Jaipur
11. M/s. Patodia Exports, Bhadohi
12. M/s. Antique Art Export (P) Ltd. Noida
13. M/s. Samara Carpets Pvt Ltd.
14. M/s. Velocity Yarn Pvt. Ltd.
15. M/s. Champo Carpets. Bhadohi
16. M/s. Colourtech Industries Pvt. Ltd.

Note: 1 to 13 & 15 are life members.

- ❖ "KALEEN BANDHU"- a forum created to invite eligible & interested organizations /individuals to become a member of IICT. One can become a Life member or Associate Member on payment of Rs. 50000/- or Rs.4000/- respectively.

# Others

- ◆ Floor Covering using Natural fibre
- ◆ Application of Natural Dyes.
- ◆ Product/ Process diversification

Party Interested may contact for further details.

IICT is also involved in various projects under HRD, DCD, R&D, marketing and technology developments schemes, sponsored by O/o DC (HC), New Delhi. The following projects are running in financial year 2019- 20.

## Details of Projects at IICT (Govt. Sponsored )

Sr. No.	Name of the Project	Reference and date of sanction/ Project cost in Rs. Lakhs / coordinated by	Scheme/ Fund Status
IICT-1	One Handicraft Technical Training Programme at Bikaner (East) Carpet Belt.	I-15011/9(1)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-2	One Handicraft Technical Training Programme at Bikaner Carpet Belt. (Sri Kotayet)	I-15011/9(2)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-3	One Handicraft Technical Training Programme at Bikaner, Carpet Belt, (Loon Karansar)	I-15011/9(3)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-4	One Handicraft Technical Training Programme at Bikaner, Carpet Belt, (Nokha)	I-15011/9(4)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-5	One Handicraft Technical Training Programme at Bikaner, Carpet Belt, (Khajuwala)	I-15011/9(5)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-6	One Handicraft Technical Training Programme at Bikaner (West), Carpet Belt,	I-15011/9(7)/NR/HTP/ST/HRD/2018-19, dt. 18.05.2018, Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-7	One Handicraft Technical Training Programme at Bikaner Carpet Belt. (Bhinasar)	I-15011/9(6)/NR/HTP/ST/HRD/2018-19/1554 dt. 15.11.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-8	One Handicraft Technical Training Programme at Bikaner Carpet Belt, (Gangashahar)	I-15011/9(8)/NR/HTP/ST/HRD/2018-19/1543 dt. 15.11.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-9	One Handicraft Technical Training Programme at Bikaner Carpet Belt. (Banglanagar)	I-15011/9(9)/NR/HTP/ST/HRD/2018-19/1575 dt. 15.11.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-10	One Handicraft Technical Training Programme at Bikaner Carpet Belt, (Karnisar)	I-15011/9(10)/NR/HTP/ST/HRD/2018-19/1565 dt.15.11.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-11	One Handicraft Technical Training Programme at Pachkhedawa Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19 dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-12	One Handicraft Technical Training Programme at Pachkhedawa Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19-I dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-13	One Handicraft Technical Training Programme at Tulasipur Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19-II dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-14	One Handicraft Technical Training Programme at Tulasipur Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19-III dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-15	One Handicraft Technical Training Programme at Shrawasti Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19-IV dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-16	One Handicraft Technical Training Programme at Shrawasti Balrampur (ST Artisans)	I-15011/9(12)/CR/ST/HTP/HRD/2018-19-V dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-18	One Handicraft Technical Training Programme at Rohtak Haryana (SC Artisans)	I-15011/9(16)/NR/SC/HTP/HRD/2018-19 dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-14	One Handicraft Technical Training Programme at Jind Haryana (SC Artisans)	I-15011/9(16)/NR/SC/HTP/HRD/2018-19 dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-19	One Handicraft Technical Training Programme at Bhiwani, Haryana (SC Artisans)	I-15011/9(16)/NR/SC/HTP/HRD/2018-19-VI, dt. 03.12.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-20	One Handicraft Technical Training Programme at Meham, Jind, Haryana (SC Artisans)	I-15011/9(21)/NR/SC/HTP/HRD/2018-19, dt. 22.02.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-21	One Handicraft Technical Training Programme at Julan, Bhiwani, Haryana (SC Artisans)	I-15011/9(22)/NR/SC/HTP/HRD/2018-19, dt. 22.02.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-22	One Handicraft Technical Training Programme at Mindal, Rohtak, Haryana (SC Artisans)	I-15011/9(23)/NR/SC/HTP/HRD/2018-19, dt. 22.02.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey,	HRD/50% fund received
IICT-23	One Handicraft Technical Training Programme at Padari, Mirzapur (ST Artisans)	I-15011/9(18)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-24	One Handicraft Technical Training Programme at Usarahwa, Mirzapur (ST Artisans)	I-15011/9(19)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-25	One Handicraft Technical Training Programme at Obra, Sonbhadra (ST Artisans)	I-15011/9(20)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-26	One Handicraft Technical Training Programme at Jangiqani, Bhadohi (ST Artisans)	I-15011/9(21)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-27	One Handicraft Technical Training Programme at Khamaria, Bhadohi (ST Artisans)	I-15011/9(22)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-28	One Handicraft Technical Training Programme at Chopan, Sonbhadra (ST Artisans)	I-15011/9(23)/CR/ST/HTP/HRD/2018-19, dt. 01.03.2018 Rs. 10.11 Lakhs, Dr. S.K.Pandey	HRD/50% fund received
IICT-29	Setting up of Design and Craft School (Audio, Visual Modern Language Lab)	C-11011/27/DCS/IICT(UP)/2018-19/ Infra dt. 25.03.2018 Rs. 14.90 Lakhs, Dr. S.K.Pandey	Infrastructure & Tech. Support
IICT-30	Setting up of Design Bank at IICT, Bhadohi	C-11011/28/DB/IICT(UP)/2018-19/ Infra dt. 25.03.2018 Rs. 14.90 Lakhs, Dr. S.K.Pandey	Infrastructure & Tech. Support

Placement drives is an integral part of our institute as it endows the opportunities to the students to get employment in the well-known and esteemed organizations. The institute started its recruitment process for the year in 2019-20 in the month of September. On campus recruiters includes Welspun Mumbai, Jaipur Rugs Jaipur, OBEETEE Gopiganj, Standard Carpet Dubai, Maurya International Bhadohi, RSWM Rajasthan etc and off campus recruiters were Chinar Forge Jalandhar, Riviera Panipat, Achal Amit & Co. Agra, ABC Mirzapur , Agni Exports Bhadohi

### Placement updates of IICT outgoing students in the academic year 2019-2020

<b>A. Industry placement</b> Name of Industry/ No. of Students	<b>B. Higher Education/Self Employment</b>
Total no. of students : 54 placed till date : 39	Total no of students taken admission for higher education and self employment : 19
Welspun Mumbai : 9 Faze Three vapi : 6 Deodia synthetics, Silvasa : 6 Ginni filament, Bharuch : 2 Standard carpet Dubai : 3 RSWM - Bhilwara : 3 Maurya International, Bhadohi : 1 Agni Carpet, Bhadohi : 1 Sarla Ghaziabad : 1 Jaipur Rugs Bhadohi : 2 Byjus - Varanasi : 1	Students have taken admission in M. Tech. at IITD, IITK and IITR



Shri Ravi Capoor, IAS, Secretary (Textiles) visited IICT along with Shri Shanmanu, IAS, Development Commissioner (Handicrafts), Chairman, IICT and others on 10-10-2019. A memento was presented to Secretary (Textiles) by Dr.Alok Kumar, Director, IICT.



Shri Ravi Capoor, IAS, Secretary (Textiles) inspecting IICT workshop along with Shri Shanmanu, IAS, Development Commissioner (Handicrafts), Chairman, IICT and others on 10-10-2019

**Art of Living (AOL)** foundation, Bangalore organized three days workshop at IICT during 24.08.2019 to 26.08.2019, to improve focus, concentration and upliftment of human values & ethics among students & staffs members



Shri Shanmanu, IAS, Development Commissioner (Handicrafts) and Chairman, IICT addressing students & staff members of IICT



Smt. Arunima Sinha, Senior faculty, Art of Living addressing staff members of IICT in the presence of Dr. Alok Kumar, Director, IICT

### 1. Industry sponsored lectures

Eminent speakers from in the industry were invited to deliver lectures on contemporary developments and recent challenges faced by the carpet industry.

- a) OBEETEE Pvt. Ltd., a well known carpet manufacturing company came forward to deliver lectures to the students on subjects which are not covered in the course curriculum, Mr Malay Majumder President, OBEETEE Pvt Ltd agreed to deliver the lectures (supply chain management) in the institute on weekly basis.
- b) Ms Alpa Mewawalla from Agni Exports motivated the students in general with a topic "WOMEN ENTREPRENEURS IN THE CARPET INDUSTRY"



### 3. Alumni Reunion

The alumni reunion was organized in the institute on 15th Feb 2020 to improve the network of current students with alumni, who are established in the industry. The alumni shown their willingness to mentor the young graduating students with career advice . Alumni members have decided to start lecture series with the past students for the benefit of current students. This lecture series has started helping the current students in mentoring , coaching and guiding to face the challenges in the corporate world.




### 4. MoU with Industry

Several MoUs were initiated with industry partners to forge a bond and to develop future relations,for benefit of the students. The key points of MoU with OBEETEE Pvt Ltd and IICT Bhadohi are as follows.

- 1. Co-operation :** The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2. Curriculum Design:** Industry will give valuable inputs to in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 3. Research and Development:** Both industry and Institute have agreed to carry out the joint research activities in the fields of handmade carpets and its manufacturing process
- 4. Skill Development Programs:** Industry to train the students of Institute on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 5. Guest Lectures:** Industry to extend the necessary support to deliver guest lectures to the students of the Institute on the technology trends and in house requirements.
- 6. Faculty Development Programs:** Industry to train the Faculty members of Institute for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.




Many eminent personalities visited the institute during 2019-20. and enlightened the faculty, staff members and students.

Date	Name & Address of visitor	Comment
<p>Date 29/4/19</p>		<p>Comments</p> <p>Today I visited the this institute and found very much cooperation from the administration and I have very satisfied with the grandmate corporate technology and I hope that our project wish we people are going to develop. in the Central Jail Baroda Gujarat</p> <p>Thanking you and the administrative staff</p> <p>Vishnu R. Patel D.S.P. Baroda Raj Baroda</p>
<p>30th April 2019</p>	<p>Sanjay R. Yerpure S.P.S.</p>	<p>Today visited National Institute and is surprised with the infrastructure and facilities along with dedication &amp; creativity of teachers under able leadership of the Director. It is growing up well, looking forward to see more participation and progress at international forums &amp; reports.</p> <p>Wish them all the best. Best wishes.</p> <p>30/4</p>



Date	Name & Address of visitor	Comment
<p>4/10/19</p> <p>24/11/19</p> <p><b>naninarquina</b></p> <p>Juan Carlos del Rio Supply Chain Director</p> <p>Enrique M. BerD 08024 - Barcelona, Spain T: +34 932 076 400 jcdelrio@naninarquina.com www.naninarquina.com</p>	<p>Ramesh Bairat Member of Bairat</p> <p>It's really impressive all the possibilities that you have. We need also support in recycling fiber and certification</p>	<p>naninarquina SPAIN.</p>
<p>13.12.19</p>	<p>Premier IIT Salem with 41 Students.</p>	<p>Today we visited this Institute with 41 students. The staff one co-ordinator very well the students are very happy to see the carpet looms and they learn about hand loom Carpet weaving Mr. Amit Sir given very good and excellent lecture about this carpet looms. Thank you. Graces for this Explanation. we are happy.</p>

Date	Name & Address of visitor	Comment
24/1/20	Dhwani Mehta Mumbai	Its an impressive set up with extremely well educated & experienced faculty. Thank you for all the help, and I will definitely think about a collaboration with the institute. <del>etc</del>
2/02/2020	Gopesh K. Nayyar	Visited my college after long time. Being an alumnus they please to see all things again. Very happy to see my faculty and their affection with students. Thanks to all my faculty who always blessed me in all ways. <del>etc</del>
01/02/2020	Sandeep Kumar Patel sandeep.patel@gmail.com 980994313	This is starting place which started my career and one of the best institute in carpet & textile Tex.
24/02/2020	Dr Ranjana Seth dr.ranjana.seth@gmail.com 9839148637	It is an extremely well organized systematic set up. My students were very well attended and made to understand the working. Thanks.

Date	Name & Address of visitor	Comment
17.2.2020	<u>nani mangra.</u>	on place visit on at IIT to give funding is a experience of attachment to have B. F. Mangra
18.02.2020	<p>Upendra Pratap Singh Commissioner, Textiles Govt of Karnataka</p> 	<p>It is a chance visit to the beautiful institute. Dr. Abhishek Kumar and their team came forward to take us to carpet area. Very sharing personality. Hope to the visit later in coming days.</p>
19/02/2020	<p>Abhishek Kumar (co-ordinator) Dalmeida Sankaran School, Shogipura (74661)</p>	<p>The atmosphere &amp; teaching quality is excellent. will definitely recommend my students to join this college after their 12<sup>th</sup>. Students get to learn many great things under the guidance of Mr. Simon Roy, we thank him for his stupendous effort.</p>
22/02/2020	<p>Prince K. Singh (A.P.) Kathi Institute of Technology, Varamahi</p>	<p>Lab visited by the students are quite advance and the students are advised with proper understanding &amp; the teacher.</p>

