Report on MHRD/TEQIP-III sponsored Future Skill Trainings conducted by H.B.T.U., Kanpur

Harcourt Butler Technical University, Kanpur (HBTU, Kanpur) was one of the Institutions covered under World Bank assisted Technical Education Quality Improvement Program (TEQIP-III) project of Government of India, Ministry of Human Resource Development (MHRD) for the period 2017-2020 which was extended up to September 2021 due to COVID pandemic. The University received total grant of Rs. 15.00 Cr. out of which Rs. 4.50 Cr. was earmarked for conducting various academic activities like FDP's, Faculty Training Programs, Staff Training Programs, Workshops, Seminars, Expert Lectures etc.

As per the directives of MHRD, Govt. of India, the regulating body of TEQIP-III, National Project Implementation Unit (NPIU) issued vide letter no. 492/NPIU/TEQIP-III/Acad/2020 dated 04.02.2020, six (06) faculty members of HBTU, Kanpur participated and trained in various Future Skill Training programmes conducted at different IITs with an objective to take further these trainings amongst the students to make them industry ready for the futuristic technologies. The details of faculty members, their training areas, number of students trained by them in their area of training alongwith the duration of students training are given in the following table.

Sr.	Name of NPIU Faculty	Areas of Future Skill	No. of	Duration of the Students
No.		Training	Students	Training
			Trained	
1.	Mr. Dharmendra Kumar Singh	Robotics & Automation	60	16 Aug to 30 Sept-2020
2.	Dr. Manish Kumar Singh	Robotics & Automation	80	16 Aug to 30 Sept-2020
3.	Dr. Saurabh Sangal	3-D Printing & Design	72	28 July to 01 Sept-2020
4.	Mrs. Nayanica Srivastava	Internet of Things	82	16 July to 11 Oct-2020
5.	Dr. Raghwendra Singh	Internet of Things	87	18 Aug to 02 Oct-2020
6.	Dr. Shashi Kant	Data Science & Analytics	68	18 Sept to 04 Oct-2020

Sample reports on MHRD/TEQIP-III sponsored Future Skill Trainings conducted by HBTU, Kanpur is given below.



Ref. No.: 4.55 /Ext./TEQIP-III/2020

Date: June 16, 2020.

Hon'ble Vice Chancellor HBTU, Kanpur

This is to bring to your kind notice that the list of 6 NPIU faculty of our University who participated in Future Skill Trainings at different IITs in their respective area is as given below:

Sl. No.	Name of NPIU Faculty	
1	Mr. Dharmandra V.	Area
) V	Mr. Dharmendra Kumar Singh	Robotics & Automation
3	Dr. Manish Kumar Singh	Robotics & Automation
1 .	Dr. Shailendra kumar pandey	Data Science & Analytics
5	- Trayamca offvastava	Internet of Things
	Dr. Ragnwendra Singh	Internet of Things
	Dr. Shashi Kant	Data Science & Analytics

In continuation, it has reference to the NPIU circular dated 07-02-2020 (copy attached) regarding the trained faculty to train the students of their institutes to make them industry ready for complying to the future skill requirement of IT-ITes industries.

Further, as per point 8 of the circular an honorarium of Rs. 700/- per hour may be paid to the faculty providing the training from TEQIP-III. Also, an honorarium of Rs. 500/- per month (for three months) may be paid from TEQIP-III to the coordinator appointed for this purpose.

In view of the above, may like to nominate Dr. Raghwendra Singh and Dr. Manish Kumar Singh as Coordinator for "Future Skill Technologies Training". They will coordinate the activity, prepare a complete report/schedule/plan and submit in the TEQIP office urgently.

discurs

कुलपति हे बेहेर्सर जानियक केरहरियाना (Prof. Raghuraj Singh) Coordinator, TEQIP-III

Matter was ohishersed on 18.6.2020.

18.6.2020



(तकनीकी शिक्षा में विश्व बैंक सहायक परियोजना के कार्यान्वयन के लिए भारत सरकार, मानव संसाधन विकास मंत्रालय का एकक)

ementation Unit

(A UNIT OF MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA FOR IMPLEMENTATION OF WORLD BANK ASSISTED PROJECTS IN TECHNICAL EDUCATION)

NP IU/TEOIP-III / Acad / 2020 / 499

Date: 07-02-2020

I offer my sincere thanks to Heads of TEOIP institutions for deputing their faculty for Train-the-Trainer program on IT-ITes future Skill technologies at different IITs/ IIIT. The objective of Train-the-Trainer program is to make student training feasible, easier and cheaper and also to make our faculty certified trainers for future. The passionate faculty who are participating in the training program need appreciation.

In order to enhance employability and improve placement of students, students need to be imparted requisite hands-on-training on technologies like Artificial Intelligence, Data Science, Internet of Things, Cloud Computing, Cyber Security, Robotics, Virtual reality etc. These emerging technology areas have huge employment potential for engineering graduates in coming 2-3 years.

While the faculty training is already completed at few IITs and also Diagnostic Test of majority students completed through Sector Skill Council NASSCOM, it is a high time to schedule the student training program at each institute level. As a next step, the trained faculty is required to further train the students of their institutes to make them industry ready for complying to the future skill requirements of IT-ITes industries. The diagnostic test has helped the institute as well as an individual student to identify his/ her inclination for requisite technology area and is made available through the score cards issued.

The guidelines for the conduction of student training at all TEQIP institutes (1.1 & 1.3) shall be as follows:

- 1. The training of students may be conducted during March May 2020.
- 2. The training shall be conducted for the designated number of hours (approx. 150- 200 hrs) at the institute by the faculty trained in IITs.
- 3. The training curriculum shall have both components of Theory and Lab in 50:50 proportion.
- 4. Minimum Batch Size for commencement of training in a particular skill is 30.
- 5. Industry experts may also be invited for completing tab work on per day honorarium basis (Guidelines available on TEQIP website).
- 6. The training schedule shall be finalized by the institute with intimation to NPIU.
- 7. The requisite training is based on the willingness of student for the respective technology area and not compulsory for the student.
- The training by the faculty trainers may be over and above their regular academic activities and hence may be paid extra remuneration (Max. Rs. 700/- per hour), through TEQIP, based on hours of training.
- ₱ 9. The Institute coordinator for Future Skill (FS) trainings may be nominated by Head of the institute and may be paid Max. Rs. 500/- per month as honorarium (for three months) through TEQIP for facilitating training in all skills?
 - 10. Post training assessment and certification shall be conducted through SSC NASSCOM for the students participating in the training and every institution may target for at least 25% of trained students attaining certification.
 - 11. The implementation status shall be requested shortly on a Google Drive through SPIU.

TEQIP Coordinators are kindly requested to initiate the process of students training as per the above guidelines. In case of any query you may contact Mr. Laxmikant Nagar at Iknagar.teqip@gmail.com or resulcid 8827749689.

With Regards,

All Institutions (1.1 & 1.3) Copy to:

All SPIUs

Prof. (Dr.) P. M. Khodke Central Project Advisor

कोपिया कॉरपोरेट सुइद्स, तृतीय तल 301-302, लॉट नं. ९, जसोला विहार, नई दिल्ली-110025 Copia Corporate Suites, 3rd Floor 301-302, Plot No. 9, Jasola Vihar, New Delhi-110025

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फैक्स / Fax : +91-11-26941012, 26941014 वैब साईट / Web site : www.npiu.nic.in ई--गेल / E-mail : npiu-mhrd@gov.in

Online Future Skill Training on "Robotics & Automation" <u>Lecture Delivery Plan (LDP)</u>

27.	Simpler laboratory version of robotic arm Arm movement of robots perform on rob analyser and seen rotational matrix changement.	Hardware/ software Experiments/labs (6 Hrs.)	11/09/2020	6pm- 9pm	3	(2)	3
28.	Pneumatic actuators are mechanical devices that use compressed air acting on a piston inside a cylinder to move a load along a linear path There are many styles of pneumatic actuators, including diaphragm cylinders, rodless cylinders, telescoping cylinders and through-rod cylinders		12/09/2020	5pm- 9pm	4	4	
		IV: Robot Actuation					
29.	Transmission: Gears, Timing Belts and Bearings • Belt drives are particularly useful in applications where layout flexibility is important. They enable the designer to place components in more advantageous locations at larger distances without paying a price penalty.	Systems (10 Hrs.)	13/09/2020	6pm- 9pm	3	3	0
30.	Parameters for selection of actuators • Power source availability, control access, valve size, frequency of operation, and required torque are all factors to consider when choosing between pneumatic or electric actuators		14/09/2020	6pm- 9pm	3	3	-
31.	Industrial Robot programming using VAL II or equivalent / simpler laboratory version of robotic arm.		15/09/2020	6pm- 9pm	3	940	3
32.	 DH parameters In mechanical engineering, the Denavit– Hartenberg parameters (also called DH parameters) are the four parameters associated with a particular convention for attaching reference frames to the links of a spatial kinematic chain, or robot manipulator. 	Hardware/ software Experiments/labs (9 Hrs.)	16/09/2020	6pm- 9pm	3	**	3
		~ 1					

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Online Future Skill Training on "Robotics & Automation" <u>Lecture Delivery Plan (LDP)</u>

33.	 ● In this convention, coordinate frames are attached to the joints between two links such that one transformation is associated with the joint, [Z], and the second is associated with the link [X]. The coordinate transformations along a serial robot consisting of n links form the kinematics equations of the robot 		17/09/2020	6pm- 9pm	3	**	3
34.	Basics of control: open loop-closed loop Transfer functions Basic controlling system of robotics explained and understands impact of open and closed loop transfer function.		18/09/2020	5pm- 9pm	4	4	-
35.	Control laws: P, PD, PID Linear and Non-linear controls • Use of: P, PD, PID controllers inside robotics arm movement explained	V: Robot Control (7 Hrs.)	19/09/2020	6pm- 9pm	3	3	-
36.	Microcontroller lab – programming (free software /open source) • Application of PIC microcontroller inside robotics explained.	Hardware/	20/09/2020	5pm- 9pm	4	9	4
37.	Actuators: Electric, Hydraulic	software Experiments/labs (10 Hrs.)	21/09/2020	6pm- 9pm	3	元 ()	3
38.	Research related experiment in AI e.g. multi agent system, unmanned systems control using ROS, etc.	(10 121)	22/09/2020	6pm- 9pm	3	540)	3
39.	Embedded systems: Microcontroller Architecture and integration with sensors actuators, components programming	VI: Control Hardware and Interfacing	23/09/2020	6pm- 9pm	3	3	*
40.	Applications for Industrial robot - programming in – VAL II	(6 Hrs.)	24/09/2020	6pm- 9pm	3	3	=
41.	Integration of assorted sensors (IR, Potentiometer, strain gauges etc.), micro controllers and ROS (Robot Operating System) in a robotic system. (Free software, Matlab)	Hardware/ software Experiments/labs (3 Hrs.)	25/09/2020	6pm- 9pm	3	120	3
42.	Applications in unmanned systems, Defense, medical, industries, etc.	VII: AI in	26/09/2020	6pm- 9pm	3	3	*
43.	Robotics and Automation for Industry 4.0.	Robotics, Industrial robotics & safety (9 Hrs.)	27/09/2020	6pm- 9pm	3	3	-

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Online Future Skill Training on "Robotics & Automation"
Lecture Delivery Plan (LDP)

				Total	142	71	71
l6.	Smal 1 group project work relevant to Industrial automation.	(6 Hrs.)	30/09/2020	6pm- 9pm	3		3
15.	Con trol experiment using available hardware or software. (Open source or Matlab). Use of open source computer vision programming tool/Matlab, open CV	Hardware/ software Experiments/labs	29/09/2020	9pm	3	120	3
4.	Robot safety and social robotics		28/09/2020	9pm	3	3	

Direct

71 HMS 71 HMS × 700= 99 400=60

Signature of Faculty/Trainer

(Dharmendra Kumar Singh)

Passed for Prayment of 1 - 99,400 - 10 (Hinty me thousand four hundred only)

Coordinator, TEQ 18-45

P_

Date: 16/08/2020 / Time: 3 hours (6 pm - 9 pm)

Day 1: 16 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/16/2020 18:04:28	Dhananjay Chàuhan	190205008	Electronics Engineering	16/8/2020
8/16/2020 18:10:18	Piyush Rajput	190106030	ET	16/8/2020
8/16/2020 18:17:04	Aman Kumar	180107007	Food Technology	16/8/2020
8/16/2020 18:33:24	Utkarsh Azad	190103060	Chemical Engineering	16/8/2020
8/16/2020 18:35:33	Abhinandan mishra	170107001	Final btech food technology	16/8/2020
8/16/2020 18:38:54	Piyush Rajput	190106030	ET	16/8/2020
8/16/2020 18:42:56	Deepika Juneja	180110028	Computer Science and Engineering	16/8/2020
8/16/2020 18:52:42	hrithik seth	190103026	CHE	16/8/2020
8/16/2020 19:15:19	Tarun Singh	190108037	Information Technology	16/8/2020
8/16/2020 19:22:10	Krishna Katiyar	170107014	Food Technology	16/8/2020
8/16/2020 19:40:58	Jatin Gupta	180103019	Chemical Engineering	16/8/2020
8/16/2020 19:45:54	Prabha kumari	190205012	ET	16/8/2020
8/16/2020 19:51:43	Yash, Kumar Singh	170109018	Leather Technology	16/8/2020
8/16/2020 20:12:23	ЈҰОТІ	190105019	Electrical engineering	16/8/2020
8/16/2020 20:15:13	Srishti gupta	190205015	Electronic and communication	16/8/2020

16/08/2020 Time: 3 hours (6PM-9PM)

Hille; -				
<i>8</i> /16/2020 20:17:02	Devanshi Tiwari	190103021	Chemical engineering	16/8/2020
8/16/2020 20:24:47	Upagyya Dixit	180106047	3rd ET	16/8/2020
8 /16/2020 20:31:18	Monali Chakraborty	190106027	Electronics	16/8/2020
8/16/2020 20:33:53	UTKĄRSH PAL	180110057	MECHANICAL ENGINEERING	16/8/2020
8/16/2020 20:35:31	Km. Sneha	180110036	Mechanical engineering	16/8/202
8/16/2020 20:45:22	Priyanshi Omer	180106026	Electronics Engineering	16/8/202
8/16/2020 20:50:52	Richa-Singh	180106029	ET	16/8/202
8/16/2020 20:52:58	Utkarsh Azad	190103060	Chemical Engineering	16/8/202
8/16/2020 20:54:41	aparna pandey	190205005	ec	16/8/202

Date: 17/08/2020 Time: 3 hours (6PM-9PM)

Batch: 9

Day 2: 17 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/17/2020 18:08:02	Yash Kumar Singh	170109018	Leather Technology	17/8/2020
8/17/2020 18:15:13	Krishna Katiyar	170107014	Food Technology	17/8/2020
8/17/2020 18:19:33	Rajarshi Tiwari	190106033	ET	17/8/2020
8/17/2020 18:36:51	Tarun Singh	190108037	Information Technology	17/8/2020
8/17/2020 18:37:20	Jatin Gupta	180103019	Chemical Engineering	17/8/2020
8/17/2020 18:45:37	Piyush rajput	190106030	ET	17/8/202
8/17/2020 18:51:56	Piyush-Rajput	190106030	ET	17/8/202
8/17/2020 19:03:12	Aman Kumar	180107007	Food Technology	17/8/202
8/17/2020 19:10:21	Monali Chakraborty	190106027	Electronics	17/8/202
8/17/2020 19:15:35	Deepika Juneja	180110028	Computer Science and Engineering	17/8/202
8/17/2020 19:21:49	HRITHIK SETH	190103026	CHE	17/8/202
8/17/2020 19:27:11	Devanshi Tiwari	190103021	Chemical engineering	17/8/202
8/17/2020 19:33:32	Upagyya Dixit	180106047	3rd ET	17/8/202
8/17/2020 19:40:53	Km. Sneha	180110036	Mechanical engineering	17/8/202
8/17/2020 19:47:09	Richa Singh	180106029	ET	17/8/202
8/17/2020 19:54:19	JYOTI	190105019	Electrical engineering	17/8/202
8/17/2020 19:59:39	Km. Sneha	180110036	Mechanical engineering	17/8/202
8/17/2020 20:17:53	Abhinandan mishra	170107001	Final btech food technology	17/8/202
8/17/2020 20:20:17	Utkarsh Azad	190103060	Chemical Engineering	17/8/202
8/17/2020 20:27:25	srishti gupta	190205015	Electronic and communication	17/8/202
8/17/2020 20:38:38	aparna pandey	190205005	ec	17/8/202
8/17/2020 20:45:01	srishti gupta	190205015	electronic and communication	17/8/202
8/17/2020 20:52:41	Priyanshi Omer	180106026	Electronics	17/8/202

Date: 17/08/2020

Time: 3 hours (6pm~9pm)

8/17/2020 20:57:16 Apurva yadav 170101004 BE 17/8/2020



Date: 18/08/2020

Time: 3 hours (6PM-9PM)

Batch:

Day 3:18 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/18/2020 18:12:03	Upagyya Dixit	180106047	3rd et	18/8/2020
8/18/2020 18:14:08	Tarun Singh	190108037	Information Technology	18/8/2020
8/18/2020 18:17:21	Yash Kumar Singh	170109018	Leather Technology	18/8/2020
8/18/2020 18:22:07	Aman Kumar	180107007	Food Technology	18/8/2020
8/18/2020 18:28:25	Deepika Juneja	180110028	Computer Science and Engineering	18/8/2020
8/18/2020 18:35:51	HRITHIK SETH	190103026	CHE	18/8/2020
8/18/2020 18:40:20	Piyush Rajput	190106030	Et	18/8/2020
8/18/2020 18:46:33	Devanshi Tiwari	190103021	Chemical engineering	18/8/2020
8/18/2020 18:51:49	Jyoti	190105019	Electrical engineering	18/8/2020
8/18/2020 18:59:12	Jatin Gupta	180103019	Chemical Engineering	18/8/2020
8/18/2020 19:05:31	Km. Sneha	180110036	Mechanical engineering e	18/8/2020
8/18/2020 19:12:56	Richa Singh	180106029	ET	18/8/2020
8/18/2020 19:35:17	Abhinandan mishra	170107001	Final btech food technology	18/8/2020
8/18/2020 19:44:44	Priyanshi Omer	180106026	electronics	18/8/2020
8/18/2020 19:57:23	aparna pandey	190205005	ec	18/8/2020
8/18/2020 20:42:01	Apurva yadav	170101004	BE	18/8/2020
8/18/2020 20:47:42	srishti gupta	190205015	electronic and communication	18/8/2020
8/18/2020 20:53:09	Utkarsh Azad	190103060	Chemical Engineering	18/8/2020



Ref. No.: 455 /Ext./TEQIP-III/2020

Date: Junes 16, 2020.

Hon'ble Vice Chancellor HBTU, Kanpur

This is to bring to your kind notice that the list of 6 NPIU faculty of our University who participated in Future Skill Trainings at different IITs in their respective area is as given below:

Sl. No. Name of N	OHI C to	
- Totalie of Iv	Alca	
Mr. Dharmendi	a Kumar Singh Robotics & Automation	
Dr. Manish Kun		
Dr. Shailendra	umar pandey Doto Color	-
Mrs. Nayanica	DIIVASIAVA Intornot CTT :	
Dr. Raghwendra	Singh Intomet CEL:	
Dr. Shashi Kant	Data Science & Analytics	

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Further, as per point 8 of the circular an honorarium of Rs. 700/- per hour may be paid to the faculty providing the training from TEQIP-III. Also, an honorarium of Rs. 500/- per month (for three months) may be paid from TEQIP-III to the coordinator appointed for this purpose.

In view of the above, may like to nominate Dr. Raghwendra Singh and Dr. Manish Kumar Singh as Coordinator for "Future Skill Technologies They will coordinate the activity, prepare report/schedule/plan and submit in the TEQIP office urgently. a complete

(Prof. Raghuraj Singh) Coordinator, TEQIP-III

Matter was ohishessed on 18.6.2020. May be appropried



(तकनीकी शिक्षा में विश्व बैंक सहायक परियोजना के कार्यान्वयन के लिए भारत सरकार, मानव संसाधन विकास मंत्रालय का एकक)

A UNIT OF MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA, FOR IMPLEMENTATION OF WORLD BANK ASSISTED PROJECTS IN TECHNICAL EDUCATION)

NPIU/TEQIP-III/Acad/2020/499

Date: 07-02-2020

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 - 11. The implementation status shall be requested shortly on a Google Drive through SPIU.

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With Regards,

Copy to: All SPIUs

All Institutions (1.1 & 1.3)

दूरभाष / Phone : +91-11-26941003/04/06/08/09/29

Prof. (Dr.) P. M. Khodke Central Project Advisor

र्फेक्स / Fax:+91-11-26941012, 26941014 वैब साईट / Web site : www.npiu.nic.in

कोपिया कॉरपोरेट सइट्स, तृतीय तल 301-302, पॉट नं. 9, जसोला विहार, नई दिल्ली-110025 Copia Corporate Suites, 3rd Floor 301-302, Plot N o. 9, Jasola Vihar, New Delhi-110025

ई-भेल / E-mail : npiu-mhrd@gov.in





Lecture Plan (Tentative)

No. of Session = 40 (Two hours/session)

S.No.	Module	Topics	Number of hours (each session are of 2 hours)
J	Introduction to 3D printing (2 sessions)	Session 1- Basics of 3D printing and additive Manufacturing. Why Use the Term Additive Manufacturing, 3D Printing Session 2: Rapid Prototyping, The Benefits of AM, Distinction Between AM and CNC Machining, Reverse Engineering Technology,	2 x 2 = 4 hours
2	Development of Additive Manufacturing Technology (3 sessions)	Session 3 - Development of Additive Manufacturing Technology, Computer-Aided Design Technology, Session 4 - Printing Technologies. The Use of Layers, Classification of AM Processes Milestones in AM Development Session 5 - The Future? Rapid Prototyping Develops into Direct Digital Manufacturing	* 3 x 2=06 hours
3	Generalized Additive Manufacturing Process Chain (6 sessions)	Session 6 - Introduction, The Eight Steps in Additive Manufacture Session 7 - Photopolymer-Based Systems. Powder-Based Systems, Molten Material System, Session 8 - Maintenance of Equipment Solid Sheets, Session 9- Materials Handling Issues, Session 10- Design for AM, Application Areas That Don't Involve Conventional CAD Modeling Session 11 - Exercises	6 x 2 = 12 hours
4	Photo polymerization Processes (6 sessions)	Session 12- Introduction, Photo polymerization Materials Session 13- Reaction Rates, Vector Scan SL, SL Resin Curing Process SL Scan Patterns Session 14- STAR-WEAVE, Vector Scan Microstereolithography. Session 15- Mask Projection, Photo polymerization Session 16- Technologies and Processes, Two-Photon SL Session 17- Exercises	6 x 2 = 12 hours
5	Powder Bed Fusion Processes (8 sessions)	Session 17- Exercises Session 18- Introduction Powder Fusion Mechanisms	8 x 2 = 16 hours

Coordinator TEQIP-III
Harcourt Butler Technical University
Kannur-200002

रंग्कोर्ट बटलर प्राविधिक विश्वविद्यालय कानप्र-2



		C 10 Calid state Cintanian	
		Chemically-induced Sintering Chemically-induced Sintering. Liquid- phase Sintering and Partial Melting Session 20- Powder Handling Systems.	
		Session 21- Variants of Powder Bed Fusion Processes	
		Session 22- Process Parameters Applied Energy Correlations and Scan Patterns	
		Session 23- Typical Materials and Applications	
		Session 24- Approaches to Metal and Ceramic Part Creation	
6	Printing Processes (6 sessions)	Session 25- Capabilities and Limitations Session 26- Evolution of Printing as an Additive Manufacturing Process	6 x 2 = 12 hours
	(sastana)	Session 27- Research Achievements in Printing, Deposition, Technical Challenges of Printing	
		Session 28- Printing Process, Modeling Material Modification Methods Session 29- Three-Dimensional Printing	
		Session 30- Advantages of Binder Printing Session 31- Exercises	
7	Design for Additive Manufacturing	Session 32- Design for Manufacturing and Assembly	$9 \times 2 = 18 \text{ hours}$
	(Laboratory sessions) (9 sessions)	Session 33- Core DFAM Concepts and Objectives.	
		Session 34- Exploring Design Freedoms. Design Tools for AM, Session 35- Software Issues for Additive	
		Manufacturing Session 36- Preparation of CAD Models –	
		the STL File, Problems with STL Files, STL File Manipulation	
		Session 37- Additional Software to Assist AM. Session 38- AM Unique Capabilities	
		Session 39- Identification of a product for Additive Manufacturing and its AM	
		process plan, Printing of identified product on an available AM machine	
		Session 40- Post-processing of additively manufactured product, Inspection and defect analysis of the additively	
	Total	manufactured product	80 hours
		til a de la companya	

Coordinator TEQIP-III
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स्तुष्टमाता रकोर्ट बटलर प्राविधिक विश्वविद्यालय कानपुर-2

(109)

Future skill training of students on "3D Printing and Design"

28th July 2021-1st September 2021

ACHIEVEMENT REPORT

The course was designed to impart knowledge and skills related to 3D printing technologies, Selection of material and equipment, and develop a product using this technique in Industry Environment. The training was successfully conducted through online mode. The total 79 students participated in the training program of Mechanical engineering, HBTU Kanpur.

The latest technologies and future scope of 3D printing and design was explained to students in depth. The application of 3D printing and design in area of engineering as well as in medical components have been explained and demonstrated. The session of demonstration of various 3D printing machine and products made by the process have been conducted in the incubation hub, Mechanical engineering department.

The latest softwares related to design and 3D modelling i.e. Auto Cad, SolidWorks and ANSYS 19.0 have been discussed and practical session was conducted during the course. After the completion of this course the students are now able to perform 3D modelling and 3D printing efficiently in Industry.

Faculty Mentor

Mr. Sagrabh Sangal

Assistant Profeesor (NPIU)

HBTU Kanpur-U.P.-208002

Venified & countereign by

Nodal Officer Engineering TEQIP-III

Harcourt Butler Technical University

Kanpur-208002

7-9 pm

Theory classes - Online Session-5-+

6661/71/1	/34//03525	Male	Mechanical Engineering	190110061	Sonu Gupta	190110061@hbtu.ac.in	7/28/2021 19:18:44	34
12/6/2000	8115384712	Male	Mechanical Engineering	190110005	ANUJ SAHU	190110005@hbtu.ac.in	7/28/2021 19:18:42	జ
9/18/2000	8756514405	Male	Mechanical Engineering	190110036	Kartik dixit	190110036@hbtu.ac.in	7/28/2021 19:18:40	32
6/22/2000	9984/32600	Female	Mechanical Engineering	190110033	ISHA SINGH	190110033@hbtu.ac.in	7/28/2021 19:18:39	31
10/1///2000	6396293679	Male	Mechanical Engineering	190110013	Atrey Mishra	190110013@hbtu.ac.in	7/28/2021 19:18:35	30
1/8/2000	8112620769	Male	Mechanical Engineering	190110031	Hrithik Bhadauria	190110031@hbtu.ac.in	7/28/2021 19:18:27	29
8/20/2000	9305904879	Male	Mechanical Engineering	190110058	SHUBHAM KATIYAR	190110058@hbtu.ac.in	7/28/2021 19:18:17	28
3/30/2000	9936856647	Male	Mechanical Engineering	190110052	SATYENDRA SRIVASTAVA	190110052@HBTU.AC.IN	7/28/2021 19:18:13	27
11/1/2002	/50552017	Male	Mechanical Engineering	190110023	Divyansh asthana	divyanshasthana123@gmail.com	7/28/2021 19:18:12	26
11/23/2000	6397254994	Male	Mechanical Engineering	180110037	Mayank Chaudhary	180110037@hbtu.ac.in	7/28/2021 19:18:10	25
661/11/9	/35549509/	Female	Mechanical Engineering	190110006	Archana Devi	190110006@hbtu.ac.in	7/28/2021 19:18:09	24
4/20/2001	8439922790	Female	Mechanical Engineering	180110036	Km. Sneha	180110036@hbtu.ac.in	7/28/2021 19:18:08	23
9/14/2001	8061090716	Male	Mechanical Engineering	190110025	Divyanshu Patel	190110025@hbtu.ac.in	7/28/2021 19:18:05	22
2/4/2000	6367211270	remale	Mechanical Engineering	190110037	Kriti Singh	190110037@hbtu.ac.in	7/28/2021 19:18:04	21
0/4/2/00	9026405159	Male	Mechanical Engineering	190110070	VAIBHAV SHUKLA	190110070@hbtu.ac.in	7/28/2021 19:18:03	20
0002/000	/983632115	Male	Mechanical Engineering	190110040	Mohammad Aqib	190110040@hbtu.ac.in	7/28/2021 19:18:00	19
1/10/2001	9450912820	Male	Mechanical Engineering	190110020	Ayush Tiwari	190110020@hbtu.ac.in	7/28/2021 19:18:00	18
2000000	8457302310	Male	Mechanical Engineering	190110046	Omjee Sengar	190110046@hbtu.ac.in	7/28/2021 19:17:58	17
12/2/12/00	9011/0/4/9	Male	Mechanical Engineering	190110068	UTKARSH AWASTHI	190110068@hbtu.ac.in	7/28/2021 19:17:55	16
12/11/2021	8081315195	Male	Mechanical Engineering	190110076	VISHWAS BADAL	190110076@hbtu.ac.in	7/28/2021 19:17:53	5
47/10/2001	638/611363	Male	Mechanical Engineering	190110056	Shikher Triwedi	190110056@hbtu.ac.in	7/28/2021 19:17:52	4
12/30/2001	90202020	Male	Mechanical Engineering	190110019	Ayush Rai	raiayush991230@gmail.com	7/28/2021 19:17:49	3
42/20/200	7985601037	Male	Mechanical Engineering	190110071	VARUN ARORA	190110071@hbtu.ac.in	7/28/2021 19:17:46	12
5500	8650306750	Male	Mechanical Engineering	190110003	Akash kumar	190110003@gmail.com	7/28/2021 19:17:35	=
2/8/2/000	6392430338	Male	Mechanical Engineering	190110028	Himanshu	190110028@HBTU.AC.IN	7/28/2021 19:17:30	10
6/1/2000	8318623462	Male	Mechanical Engineering	180110061	Abhishek Singh	180110061@hbtu.ac.in	7/28/2021 19:17:28	9
12/1/1/2001	9519441112	Male	Mechanical Engineering	190110010	Aryan Verma	190110010@gmail.com	7/28/2021 19:17:28	00
0/0/2/000	9369258045	Female	Mechanical Engineering	190112012	Geetanjali Prakash	190112012@hbtu.ac.in	7/28/2021 19:17:25	7
3/20/2001	6392099300	Male.	Mechanical Engineering	190110053	Shakti Yadav	190110053@hbtu.ac.in	7/28/2021 19:17:23	ნ
0.007/9/6	06397575958	Male	Mechanical Engineering	190110060	Shubham Rana	190110060@hbtu.ac.in	7/28/2021 19:17:23	ĊΊ
0000000	+91/905514261	Male	Mechanical Engineering	180110021	Ashish Kumar	kumarjr2611@gmail.com	7/28/2021 19:17:22	4
1000000		Male	Mechanical Engineering	180110046	Prateek Srivastava	180110046@hbtu.ac.in	7/28/2021 19:17:05	ω
0/2/2/00	9336043494	Male	Mechanical Engineering	190110009	Aryan Pandey	190110009@HBTU.AC.IN	7/28/2021 19:17:05	2
0000000	/9630/0399	remale	Mechanical Engineering	190110034	Kanika Chaudhary	190110034@hbtu.ac.in	7/28/2021 19:17:03	
E12/2001	100000000000000000000000000000000000000	1		11011 1101	Maille	Email Address	Imestamp	S.No.

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7/7/2002	8954565744	Male	Mechanical Engineering	190110011	Ashish singh	190110011@hbtu.ac.in	7/28/2021 20:40:47	0 !
6/3/2001	6392569802	Female	Mechanical Engineering	190110065	Surbhi gond	surbhigond20@gmail.com	7/28/2021 20:38:56	67
7/21/2001	6386965028	Male	Mechanical Engineering	190110075	Vishal Kumar	190110075@hbtu.ac.in	7/28/2021 20:38:53	66
10/5/2000	8419809877	Male	Mechanical Engineering	190110015	Atyant Kumar Arya	190110015@hbtu.ac.in	7/28/2021 20:38:37	
5/21/2001	6386965028	Male	Mechanical Engineering	190110075	Vishal Kumar	190110075@hbtu.ac.in	7/28/2021 20:37:01	
3/4/1998	7376991104	Male	Mechanical Engineering	170110059	Tanish Kherotia	170110059@hbtu.ac.in	7/28/2021 20:35:19	
1/22/2000	8840398815	Male	Mechanical Engineering	180110056	Swapnil Tiwari	180110056@hbtu.ac.in	7/28/2021 20:34:46	
9/14/1999	6307046234	Male	Mechanical Engineering	180110025	AVISHKAR CHANDEL	avishkar.chandel14@gmail.com	7/28/2021 20:17:15	
2/13/1999	7007/91523	Male	Mechanical Engineering	190110007	ARPIT AGRAWAL	190110007@hbtu.ac.in	7/28/2021 19:49:48	
8/10/2001	6389/0110/	Female	Mechanical Engineering	190110043	Nandani	190110043@hbtu.ac.in	7/28/2021 19:49:02	
0/10/2000	/500268244	Male	Mechanical Engineering	190110027	Harsh verma	190110027@hbtu.ac.in	7/28/2021 19:48:57	
5/1//2003	9694664576	Male	Mechanical Engineering	190110026	Harsh Raj Anand	190110026@hbtu.ac.in	7/28/2021 19:48:41	
6661/1/6	6387419698	Male	Mechanical Engineering	190110045	Nitesh Singh	190110045@hbtu.ac.in	7/28/2021 19:48:40	
//10/2000	/89/851812	Male	Mechanical Engineering	180110055	sumit kumar	nikhilsingh724289@gmail.com	7/28/2021 19:48:13	
0002/1/9	8318623462	Male	Mechanical Engineering	180110061	Abhishek Singh	180110061@hbtu.ac.in	7/28/2021 19:48:11	
12/30/2001	962895655	Male	Mechanical Engineering	190110019	Ayush Rai	raiayush991230@gmail.com	7/28/2021 19:47:51	
6/16/2000	77500268244	Male	Mechanical Engineering	190110027	Harsh verma	190110027@hbtu.ac.in	7/28/2021 19:47:41	
4/9/2002	8175057261	Male	Mechanical Engineering	190110062	Sudhanshu Tiwari	190110062@hbtu.ac.in	7/28/2021 19:47:21	
1/25/2000	8218868766	Male	Mechanical Engineering	190110066	Tapish Garg	190110066@hbtu.ac.in	7/28/2021 19:46:54	
7002/92/1	6390276914	Female	Mechanical Engineering	190110002	Akanksha Gupta	190110002@hbtu.ac.in	7/28/2021 19:44:14	_
0002/22/1	8840398815	Male	Mechanical Engineering	180110056	Swapnil Tiwari	180110056@hbtu.ac.in	7/28/2021 19:41:38	
1002/000	8858008019	Male	Mechanical Engineering	190110051	Sambhav Jain	190110051@hbtu.ac.in	7/28/2021 19:38:23	
0/10/2002	9/93533/6/	Male	Mechanical Engineering	190110054	SHASHANK TIWARI	190110054@hbtu.ac.in	7/28/2021 19:28:20	
CHEDOOD	020252222	Na e	Mechanical Engineering	190110012	Ashutosh Kumar	190110012@hbtu.ac.in	7/28/2021 19:24:18	
7/24/4000	0302020	remale	Mechanical Engineering	190110002	Akanksha Gupta	190110002@hbtu.ac.in	7/28/2021 19:24:11	
1/26/2000	620025047	Male	Mechanical Engineering	180110015	Anand Kumar Anuragi	180110015@hbtu.ac.in	7/28/2021 19:23:00	
44/46/2000	7000500455	Male	Mechanical Engineering	190110024	Divyansh Singh	190110024@hbtu.ac.in	7/28/2021 19:22:14	
40/45/0000	703773303	Male	Mechanical Engineering	190110035	Kartik Chauhan	190110035@hbtu.ac.in	7/28/2021 19:22:13	-
4/24/2002	702775550	remaie	Mechanical Engineering	190110049	RIYA VERMA	190110049@hbtu.ac.in	7/28/2021 19:20:08	
6/27/2001	1430033430	Male	Mechanical Engineering	190110030	HIMANSHU GUPTA	190110030@hbtu.ac.in	7/28/2021 19:19:39	_
5070000	0397907303	Viale	Mechanical Engineering	190110008	Arpit Yadav	190110008@hbtu.ac.in	7/28/2021 19:19:33	
10/16/200	020702585	Male	Mechanical Engineering	190110012	Ashutosh Kumar	190110012@hbtu.ac.in	7/28/2021 19:19:31	
77/1000	020200000	remale	Mechanical Engineering	190110077	Vivek Chaurasia	190110077@hbtu.ac.in	7/28/2021 19:19:01	
1/25/2000	6306138755	Male	Mechanical Engineering	180110031	Divyarsh Pandey	180110031@hbtu.ac.in	7/28/2021 19:18:46	
10000		Contact	Branch	KOII NO.	Name	Email Address	Timestamp	

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03002711	Vidic	Mechanical Engineering	190110073	Vipul kumar pandey	190110073@hbtu.ac.in	7/28/2021 20:50:37	71
90552742	Mala		71	Name manya	100110049@11010.ac.iii	//28/2021 20:45:11	70
80529679	Male	Mechanical Engineering		Dahu maurya	Appliance of the second		3
0639757595	Male	Mechanical Engineering	190110060	Shubham Rana	190110060@hbtu.ac.in	7/28/2021 20:40:54	69
Mobile No.	Gender	Branch	Roll No.	Name	Email Address	Timestamp	S.No.
	Mobile No. 0639757595 8052967988 8955271384	~ ~ O	Branch Gender hanical Engineering Male hanical Engineering Male hanical Engineering Male	Mechanical Engineering Male Control Mechanical Engineering Male Mechanical Engineering Male Mechanical Engineering Male	Roll No. Branch Gender 190110060 Mechanical Engineering Male 0 80110049@hbtu.ac.i Mechanical Engineering Male 0 190110073 Mechanical Engineering Male	Name Roll No. Branch Gender Shubham Rana 190110060 Mechanical Engineering Male C Rahul maurya 80110049@hbtu.ac.i Mechanical Engineering Male Vioul kumar pandey 190110073 Mechanical Engineering Male	Email Address Name Roll No. Branch Gender 190110060@hbtu.ac.in Shubham Rana 190110060 Mechanical Engineering Male C 180110049@hbtu.ac.in Rahul maurya 80110049@hbtu.ac.ii Mechanical Engineering Male (190110073@hbtu.ac.ii Vipul kumar pandey 190110073 Mechanical Engineering (190110073@hbtu.ac.ii Vipul kumar pandey 190110073@hbtu.ac.ii Vipul kumar pandey (190110073@hbtu.ac.ii Vipul kumar pandey (190110073@hbtu.

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Nodal Officer Engineering TEQIP-III
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Theory class S-2

190110034 Mechanical Engineering Female 7983878599 190110037 Mechanical Engineering Female 6387211270 190110036 Mechanical Engineering Male 6387611363 190110002 Mechanical Engineering Female 6390276914 190110003 Mechanical Engineering Male 8957302310 190110037 Mechanical Engineering Male 8957302310 190110033 Mechanical Engineering Male 9984732600 190110035 Mechanical Engineering Male 703755563 190110024 Mechanical Engineering Male 6387361852 190110043 Mechanical Engineering Female 6387361852 190110066 Mechanical Engineering Male 7347703525 190110066 Mechanical Engineering Male 8115384712 190110071 Mechanical Engineering Male 8218868766 190110071 Mechanical Engineering Male 8218868766 190110071 Mechanical Engineering Male 8218868766 190110071 Mechanical Engineering Male 8650306750 190110072 Mechanical Engineering Male 8650306750 190110073 Mechanical Engineering Male 8650306750 190110074 Mechanical Engineering Male 8735495097 190110075 Mechanical Engineering Male 9936856647 190110076 Mechanical Engineering Male 9936856647 190110077 Mechanical Engineering Male 9936856647 190110078 Mechanical Engineering Male 9938533767 190110071 Mechanical Engineering Male 9735333767 190110071 Mechanical Engineering Male 9735333767 190110071 Mechanical Engineering Male 9735333767	190110046@hbtu.ac.in 180110061@hbtu.ac.in vivekchaurasia8564@gmail.com 190110033@hbtu.ac.in 190110035@hbtu.ac.in 190110024@hbtu.ac.in 190110005@hbtu.ac.in 190110005@hbtu.ac.in 1901100031@hbtu.ac.in 190110003@gmail.com 190110003@gmail.com 190110003@hbtu.ac.in 190110005@hbtu.ac.in 190110005@hbtu.ac.in 190110005@hbtu.ac.in 190110052@HBTU.AC.IN 190110052@HBTU.AC.IN 190110054@hbtu.ac.in 190110054@hbtu.ac.in	7/29/2021 19:11:28 7/29/2021 19:12:10 7/29/2021 19:12:24 7/29/2021 19:12:58 7/29/2021 19:13:07 7/29/2021 19:13:25 7/29/2021 19:13:25 7/29/2021 19:14:01 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:43 7/29/2021 19:14:46 7/29/2021 19:14:50 7/29/2021 19:16:32 7/29/2021 19:16:32 7/29/2021 19:16:32 7/29/2021 19:16:44
190110034 Mechanical Engineering Female 7983878599 190110037 Mechanical Engineering Female 6387211270 190110036 Mechanical Engineering Female 6387211270 190110026 Mechanical Engineering Male 6387611363 190110046 Mechanical Engineering Female 6390276914 190110077 Mechanical Engineering Male 895302310 190110077 Mechanical Engineering Male 9984732600 190110033 Mechanical Engineering Female 9984732600 190110043 Mechanical Engineering Male 6387361852 190110051 Mechanical Engineering Male 6387361852 190110063 Mechanical Engineering Male 8387361852 190110005 Mechanical Engineering Male 8387361852 190110066 Mechanical Engineering Male 8387361852 190110071 Mechanical Engineering Male 8218868766 190110072 Mechanical Engineering Male 823650306750	190110046@hbtu.ac.in 180110061@hbtu.ac.in vivekchaurasia8564@gmail.com 190110033@hbtu.ac.in 190110024@hbtu.ac.in 190110024@hbtu.ac.in 190110043@hbtu.ac.in 190110005@hbtu.ac.in 190110005@hbtu.ac.in 190110003@gmail.com 190110003@gmail.com 190110006@hbtu.ac.in 190110013@hbtu.ac.in 190110013@hbtu.ac.in 190110013@hbtu.ac.in 190110013@hbtu.ac.in 190110013@hbtu.ac.in 190110013@hbtu.ac.in 190110027@hbtu.ac.in 190110027@hbtu.ac.in 190110027@hbtu.ac.in	7/29/2021 19:11:28 7/29/2021 19:12:10 7/29/2021 19:12:24 7/29/2021 19:12:58 7/29/2021 19:13:07 7/29/2021 19:13:07 7/29/2021 19:13:25 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:30 7/29/2021 19:14:46 7/29/2021 19:14:50 7/29/2021 19:14:50 7/29/2021 19:16:00 7/29/2021 19:16:00 7/29/2021 19:16:00
190110034 Mechanical Engineering Female 7983878599 190110037 Mechanical Engineering Female 6387211270 190110036 Mechanical Engineering Female 6387211270 190110026 Mechanical Engineering Male 6387611363 190110002 Mechanical Engineering Female 6390276914 190110061 Mechanical Engineering Male 8957302310 190110077 Mechanical Engineering Male +918318623462 190110033 Mechanical Engineering Female 9984732600 190110043 Mechanical Engineering Male 7037755663 190110051 Mechanical Engineering Male 6387361852 190110061 Mechanical Engineering Male 837361852 190110005 Mechanical Engineering Male 8387361852 190110006 Mechanical Engineering Male 8387361852 190110007 Mechanical Engineering Male 8115384712 190110006 Mechanical Engineering Male 8218868766	190110046@hbtu.ac.in 180110061@hbtu.ac.in vivekchaurasia8564@gmail.com 190110033@hbtu.ac.in 190110024@hbtu.ac.in 190110024@hbtu.ac.in 190110043@hbtu.ac.in 190110005@hbtu.ac.in 190110005@hbtu.ac.in 190110003@gmail.com 190110003@gmail.com 190110003@gmail.com 190110003@hbtu.ac.in 190110003@hbtu.ac.in 190110003@hbtu.ac.in 190110003@hbtu.ac.in 190110003@hbtu.ac.in 190110023@hbtu.ac.in 190110023@hbtu.ac.in	7/29/2021 19:11:28 7/29/2021 19:12:10 7/29/2021 19:12:24 7/29/2021 19:12:58 7/29/2021 19:13:07 7/29/2021 19:13:07 7/29/2021 19:13:25 7/29/2021 19:14:01 7/29/2021 19:14:15 7/29/2021 19:14:39 7/29/2021 19:14:43 7/29/2021 19:14:43 7/29/2021 19:14:46 7/29/2021 19:14:50 7/29/2021 19:14:50 7/29/2021 19:14:50 7/29/2021 19:14:50 7/29/2021 19:15:32
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190110034 Mechanical Engineering Female 7983878599	190110037@hbtu.ac.in	7/29/2021 19:10:32
	190110034@hbtu.ac.in	7/29/2021 19:10:26
Geetanjali Prakash 190112012 Mechanical Engineering Female 9359258045 8/6/2000	190112012@hbtu.ac.in Ge	7/29/2021 19:10:11
Male 6392099300	190110053@hbtu.ac.in	7/29/2021 19:10:11
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Male 9336043494	190110009@HBTU.AC.IN	7/29/2021 19:10:06
	170110059@hbtu.ac.in	7/29/2021 19:10:02
Male 6307046234	avishkar.chandel14@gmail.com	7/29/2021 19:10:02
+918933094536		7/29/2021 19:09:59
9519441112	190110010@hbtu.ac.in	7/29/2021 19:09:58
Male 81/505/261	190110062@hbtu.ac.in S	7/29/2021 19:09:55
Male 9811767479	190110068@hbtu.ac.in UT	7/29/2021 19:09:51
Roll No. Branch Gender Mobile No.	Email Address	Timestamp

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S.No.	Timestamp	Email Address	Name	Roll No.	Branch	Gender	Mobile No.	DOB
ဒ္ဓ	7/29/2021 19:17:20	190110040@hbtu.ac.in	Mohammad Aqib	190110040	Mechanical Engineering	Male	7983632115	6/5/2000
37	7/29/2021 19:19:03	190110049@hbtu.ac.in	RIYA VERMA	190110049	Mechanical Engineering	Female	9129932470	6/27/2001
<u>အ</u>	7/29/2021 19:23:46	190110020@hbtu.ac.in	Ayush Tiwari	190110020	Mechanical Engineering	Male	9450912820	7/18/2001
39	7/29/2021 19:24:02	nikhilsingh724289@gmail.com	Sumit kunar	180110055	Mechanical Engineering	Male	7897851812	7/10/2000
40	7/29/2021 19:28:30	surbhigond20@gmail.com	Surbhi gond	190110065	Mechanical Engineering	Female	6392569802	6/3/2001
4	7/29/2021 19:28:36	raiayush991230@gmail.com	Ayush Rai	190110019	Mechanical Engineering	Male	9628956655	12/30/2001
42	7/29/2021 19:28:37	180110015@hbtu.ac.in	Anand Kumar Anuragi	180110015	Mechanical Engineering	Male	7080509155	11/16/2000
43	7/29/2021 19:28:56	190110070@hbtu.ac.in	VAIBHAV SHUKLA	190110070	Mechanical Engineering	Male	9026405159	10/24/2000
4	7/29/2021 19:28:59	190110075@hbtu.ac.in	Vishal Kumar	190110075	Mechanical Engineering	Male	6386965028	5/21/2001
45	7/29/2021 19:29:03	190110074@gmail.com	Vishal Chaudhary	190110074	Mechanical Engineering	Male	7983615201	6/12/2000
46	7/29/2021 19:29:07	190110031@hbtu.ac.in	Hrithik Bhadauria	190110031	Mechanical Engineering	Male	8112620769	1/8/2000
47	7/29/2021 19:29:13	190110076@hbtu.ac.in	vishwas badal	190110076	Mechanical Engineering	Male	8081315195	12/11/2001
48		divyanshasthana123@gmail.com	Divyansh asthana	190110023	Mechanical Engineering	Male	7505520190	11/1/2002
49	7/29/2021 19:36:55	180110036@hbtu.ac.in	Km. Sneha	180110036	Mechanical Engineering	Female	8439922790	4/28/2001
50	7/29/2021 19:41:21	190110060@hbtu.ac.in	Shubham Rana	190110060	Mechanical Engineering	Male	06397575958	9/6/2000
51	7/29/2021 19:41:22	180110062@hbtu.ac.in	Harshit Srivastava	180110062	Mechanical Engineering	Male	8176952440	2/26/2000
52	7/29/2021 19:43:02	180110024@hbtu.ac.in	Avinash Krishna	180110024	Mechanical Engineering	Male	9026247058	8/15/2000
53	7/29/2021 19:58:06	180110056@hbtu.ac.in	Swapnil Tiwan	180110056	Mechanical Engineering	Male	8840398815	1/22/2000
2	7/29/2021 20:10:27	180110037@hbtu.ac.in	Mayank Chaudhary	180110037	Mechanical Engineering	Male	6397254994	11/23/2000
55	7/29/2021 20:13:47	190110015@hbtu.ac.in	Atyant Kumar Arya	190110015	Mechanical Engineering	Male	8419809877	10/5/2000
56	7/29/2021 20:18:10	180110046@hbtu.ac.in	Prateek Srivastava	180110046	Mechanical Engineering	Male	6391936881	8/8/2002
57	7/29/2021 20:18:42	190110041@hbtu.ac.in	Mridul Kumar	190110041	Mechanical Engineering	Male	8303008200	10/28/2001
58	7/29/2021 20:21:53	190110067@hbtu.ac.in	Uday gupta	190110067	Mechanical Engineering	Male	9807748401	3/15/2001
59	7/29/2021 20:32:46	pateldivyanshu3@gmail.com	Divyanshu Patel	190110025	Mechanical Engineering	Male	9170601908	9/14/2001
60	7/29/2021 20:36:21	kumarjr2611@gmail.com	Ashish Kumar	180110021	Mechanical Engineering	Male	+917905514261	11/26/1999
61	7/29/2021 22:14:10	190110026@hbtu.ac.in	Harsh Raj Anand	190110026	Mechanical Engineering	Male	9694664576	5/17/2003
3	700000000000000000000000000000000000000	100110060@hbtu ac in	Shubham Rana	190110060	Mechanical Engineering	Male	06397575958	9/6/2000

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भारतीय प्रांचानिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad Technical Education Quality Improvement Program (TEQIP) Knowledge Incubation in Technical Education (KITE) Center

Indian Institute of Technology Hyderabad

CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

SAURABH SANGAL

of Harcourt Butler Technical University, Uttar Pradesh has participated in NPIU TEQIP online Faculty Development Program on

"Future-skill technologies in 3D Printing & Design" organized at IIT Hyderabad between June 19 – 26, 2021.

Run Onken

Dr. Prasad S Onkar Workshop Organizer Assistant Professor Department of Design

S . R . Dey . Prof. Suhash Ranjan Dey

Professor
Department of Materials Science and Metallurgical Engineering

TEQIP Coordinator

p. Conshaker Prof. B Umashankar

Chairperson - CCE
Professor
Department of Civil Engineering

Nodal Officer Eng

Nodal Officer Engineering Technimit Butler Technical University

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