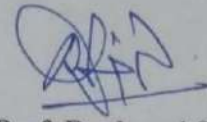


Hon'ble VC  
HBTU Kanpur

This is to bring into your kind notice that Mr. Saurabh Sangal (Assistant Professor-NPIU, MED, HBTU Kanpur) has successfully conducted the Future Skill Training on "3D Printing and Design" during 28<sup>th</sup> July 2021 to 01<sup>st</sup> Sept 2021 in total 72 hrs. An amount of Rs. 50,400/- (700 Rs. ×72 hours) is to be paid under the component 1.1.2.1- Improve Student Learning under TEQIP-III.

In the view of the email dated 15<sup>th</sup> September 2021 (copy attached), kindly recommend for remuneration so that funds may be allocated in the respective component.



**Prof. Raghuraj Singh**  
(Coordinator TEQIP-III)

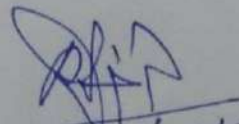
Approved/Recommended  
Sangal  
22/9

Coordinator

कुलपाते  
हरकोर्ट बटलर प्राविधिक विश्वविद्यालय  
कानपुर-2

NOF

मद में धन उपलब्ध है। पत्रावली <sup>मुगतान</sup> ~~अग्रिम~~ कार्रवाई हेतु प्रेषित।



25/09/2021  
Coordinator TEQIP-III

Harcourt Butler Technical University  
Kanpur-208002

Passed for payment of Rs = 50400 = 0  
(पचास हजार चार सौ मात्र)



Coordinator, TEQIP-III

R

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

28<sup>th</sup> July 2021-1<sup>st</sup> September 2021

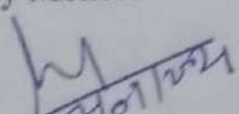
### ACHIEVEMENT REPORT

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. Saarabh Sangal

Assistant Professoor (NPIU)

HBTU Kanpur-U.P.-208002

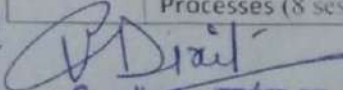
Verified & countersign by  
  
Nodal Officer Engineering TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

## Lecture Plan (Tentative)

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

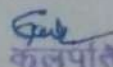
S.No.	Module	Topics	Number of hours (each session are of 2 hours)
1	Introduction to 3D printing (2 sessions)	<p>Session 1- Basics of 3D printing and additive Manufacturing, Why Use the Term Additive Manufacturing, 3D Printing</p> <p>Session 2: Rapid Prototyping, The Benefits of AM, Distinction Between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

approved

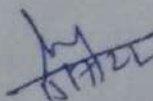
  
Coordinator TEQIP-III

Harcourt Butler Technical University  
Kannur-206002

for

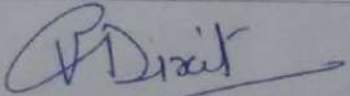
  
कुलपति

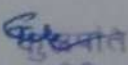
लॉकॉर्ट बटलर प्राविधिक विश्वविद्यालय  
कानपुर-2

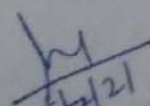
  
STAFF



		<p>Session 19- Solid-state Sintering Chemically-induced Sintering. Liquid-phase Sintering and Partial Melting</p> <p>Session 20- Powder Handling Systems,</p> <p>Session 21- Variants of Powder Bed Fusion Processes</p> <p>Session 22- Process Parameters Applied Energy Correlations and Scan Patterns</p> <p>Session 23- Typical Materials and Applications</p> <p>Session 24- Approaches to Metal and Ceramic Part Creation</p> <p>Session 25- Capabilities and Limitations</p>	
6	Printing Processes (6 sessions)	<p>Session 26- Evolution of Printing as an Additive Manufacturing Process</p> <p>Session 27- Research Achievements in Printing, Deposition, Technical Challenges of Printing</p> <p>Session 28- Printing Process, Modeling Material Modification Methods</p> <p>Session 29- Three-Dimensional Printing</p> <p>Session 30- Advantages of Binder Printing</p> <p>Session 31- Exercises</p>	6 x 2 = 12 hours
7	Design for Additive Manufacturing (Laboratory sessions) (9 sessions)	<p>Session 32- Design for Manufacturing and Assembly</p> <p>Session 33- Core DFAM Concepts and Objectives,</p> <p>Session 34- Exploring Design Freedoms, Design Tools for AM,</p> <p>Session 35- Software Issues for Additive Manufacturing</p> <p>Session 36- Preparation of CAD Models – the STL File, Problems with STL Files, STL File Manipulation</p> <p>Session 37- Additional Software to Assist AM.</p> <p>Session 38- AM Unique Capabilities</p> <p>Session 39- Identification of a product for Additive Manufacturing and its AM process plan, Printing of identified product on an available AM machine</p> <p>Session 40- Post-processing of additively manufactured product , Inspection and defect analysis of the additively manufactured product</p>	9 x 2 = 18 hours
		Total	80 hours

Approved   
 Coordinator TEQIP-III  
 Harcourt Butler Technical University  
 Kanpur-208002

  
 राकोट बटलर प्राविधिक विश्वविद्यालय  
 कानपुर-2

  
 15/11/21



Time Table (28<sup>th</sup> July 2021-30<sup>th</sup> August 2021): ONLINE MODE  
 (Tentative)

Sl. No.	Day	Session Time (tentative)	Number of sessions (tentative)	Number of hours (tentative)
1.	Monday	07:00 PM to 09:00 PM ✓	1	2
2.	Tuesday	07:00 PM to 09:00 PM ✓	1	2
3.	Wednesday	07:00 PM to 09:00 PM ✓	1	2
4.	Thursday	07:00 PM to 09:00 PM ✓	1	2
5.	Friday	07:00 PM to 09:00 PM ✓	1	2
6.	Saturday	07:00 PM to 09:00 PM ✓	2	4
7.	Sunday	10:30 AM to 12:30 PM 1:30 PM to 3:30 PM 4:00 PM to 6:00 PM	2	4

5:00 PM - 7:00 PM ✓

Therefore in a week the number of tentative sessions to be covered are  $(1+1+1+1+1+1+3)$  9 and the total number of tentative hours are  $(2+2+2+2+2+2+6)$  18 hours.

Hence, more than 4 weeks  $(= \text{total hours} / \text{hours per week} = 80/18)$  (tentatively) are required to complete the syllabus.

Approved

*V. Dixit*

Coordinator TEQIP-III

Harcourt Butler Technical University

Kanpur-208002

for

*Res*

कुलपति

हरकोट तटल एकेडमिक विद्यापीठ

काणपुर-२

*M*  
17/7/21

TEQIP Phase - III - Online Faculty Training on '3D Printing & Design' by IIT Hyderabad during 19th - 26th June 2021

Mon, May 17, 2021 at 2:28 PM  
"Dr. Brijesh Mishra"

SPIU UP <spiu.uttarpradesh@gmail.com>  
To: varshneyankit12@gmail.com, Saurabh Sangal <er.saurabh.sangal@gmail.com>, devarshikapil@gmail.com, sadafnazirwani@yahoo.in, vber.iitdmec@gmail.com, "Dr. Brijesh Mishra" <brijesh.mishra0933@gmail.com>  
Cc: MANOJ SINGH <manojssat@yahoo.co.in>, Rachna Asthana <Coordinatorteqip3@hbtu.ac.in>, Naman Garg <namangarg90@gmail.com>, Dr Shansher Singh <svs@hbtu.ac.in>, IET Agra EAP <vk.saraswati@gmail.com>, "ER. BRAJENDRA SHUKLA" <shukla.braj@gmail.com>, S K Katiyar Director IET BU Jhansi <skkatiyar@ietbu.ac.in>, Dr K S Varma KNIT TEQIP Coordinator <kaverma@knit.ac.in>, KNIT <director@knit.ac.in>, Dr Umesh Chandra Jaiswal <ucjcs@mmmut.ac.in>, Bir Nwas Singh <vvc@mmmut.ac.in>, SPA SPIU-UP <spa.spiuup@gmail.com>, SPIU UP <spiu.uttarpradesh@gmail.com>, Laxmikant Nagar <lnagar.teqip@gmail.com>, NATIONAL PROJECT IMPLEMENTATION UNIT <npiu-mhnd@gov.in>, <nodacademic.spiuup@gmail.com>

Dear faculty

FET MJP Rohilakhand University, Bareilly	Ankit varshney
Harcourt Butler Technical University (Formerly HBTU), Kanpur	Saurabh sangal
Institute of Engineering & Technology, Dr B R Ambedkar University, Khandari Agra	DEVARSHI KAPIL
Institute of Engineering & Technology, Bundelkhand University, Kanpur Road, Jhansi-KNIT Sultanpur	Sadaf Nazir
MMM University of Technology, Gorakhpur	Dr. Virendra Kumar
	BRJESH MISHRA

In reference to the trailing mail you are requested to do the needful as per timelines mentioned.

(a) To confirm the participation for this training program, **concerned faculty members** are requested to submit the confirmation through google form linked below with due **approval** from competent authority (Director/ Principal) of the institute.

Link: <https://forms.gle/k5CVbY1A3FgWvzYGA>

(b) **TEQIP Coordinators** are requested to ensure the participation of concerned faculty (List at Annex-1) from your institute. In case of unavailability of nominated faculty, replacement shall be made by competent authority of the institute with intimation to NPIU.

(c) Only faculty who confirm their participation through google form shall be allowed to participate in this course. The confirmation should be submitted through above link before **2<sup>nd</sup> June 2021, 14:00 Hrs.**

Thanks

Dr. Mahaveer Singh Naruka  
Nodal Officer (Academic/ID)  
State Project Implementation Unit  
TEQIP III, Uttar Pradesh  
401 & 402, Academic Block,  
AKTU Campus, Jankipuram Extension  
Lucknow - 226013, (UP)  
Tel No. 05222772265, 09654947007

*Handwritten signature and date: 17/05/2021*

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[Quoted text hidden]

[Quoted text hidden]

Plot No - 9, Janki Vihar New Delhi - 110025  
Phone No. 011-26941026 (D)  
EPABX Nos 011- 26941003,04,06,08,09,29  
Fax Nos. : 011-26941012, 26941014  
Email : npiu-mhnd@gov.in  
Web : www.npiu.nic.in, www.teqip.in  
Twitter : @TeqipN

2 attachments

Annex-II\_Curriculum\_3D Printing and Design.pdf  
114K

Annex-1\_List of participants\_3D Printing.xlsx  
15K



Welcome: Raghuraj Singh  
 User Type: AGENCYDA  
 Agency: Harcourt Butler Technical  
 University  
 Financial Year: 2021-2022



Traced  
 Logout  
 Change  
 Password  
 Login  
 History

# Public Financial Management System-PFMS

(formerly CPSMS)

O/o Controller General of Accounts, Ministry of Finance

- AdhocReports
- Home
- Scholarship Management
- User Manuals
- E-Payment
- Health Module
- Sanctions
- Reports
- My Details
- Masters
- My Schemes
- Agencies
- EAT MIS Process
- My Funds
- Transfers
- Advances
- Expenditures
- Bank
- Register/ Track Issue
- Misc. Deduction Filing
- Utilisation Certificate
- OLD UC

## Advance Settlement

Settlement details approved successfully

**Scheme Code/Name:** TECHNICAL EDUCATION QUALITY IMPROVEMENT PROJECT OF GOI (EAP) CS

**Bank Account Number:** 3702002100031759

**Vendor/Beneficiary Name:** Finance Controller, HBTU, Kanpur

**Order Number:** 22-2/PO/TEQIP-III/HBTU/2021-22 dt. 25.9.21

**Order Date:** 25/09/2021

**Advance Status:** Approved

**Total Advance Amount:** 5040.00

**Advance Paid To Vendor:** 5040.00

**Total Paid Amount:** 5040.00

**Total Deduction Amount:** 0.00

**Already Settled Amount:** 5040.00

<input type="checkbox"/>	Voucher Number	Component Name	Settlement Type	Amount	Tax Amount for Global Component	Balance Amount	Status
<input type="checkbox"/>	<a href="#">BP-2021-22-228</a>	Improve students learning	Expenditure	5040.00	N/A	5040.00	Approved
<b>Grand Total</b>				<b>5040.00</b>			



This is DSC Based Payment. PPA generation not applicable

## PFMS Generated DSC Transaction Payment Advice Report

Agency Name: NATIONAL PROJECT IMPLEMENTATION UNIT-[HBTIKNP]

Debit Bank Name : PUNJAB NATIONAL BANK

Bank Account No: 3702002100031759

Approval date in PFMS: 25-Sep-2021

DSC Signing Date in PFMS: 25-Sep-2021

Amount (in Rs.) : 45,360.00 (*Amount in words* : Forty-Five Thousand Three Hundred Sixty

No. Of Beneficiaries: 1

**Not to be used by bank for making any payments**

Debit Payment Advice No.: C092140999444

S.N =0.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	SAURABHSANGAL	C092140999440	xxxxxxxxxxxx6665	SBIN00010 69		45,360.00
Total Amount(Rs):						45,360.00

.....  
(Sign by Authorized Signatory)

Name - \_\_\_\_\_

Designation - \_\_\_\_\_

Mobile No - \_\_\_\_\_

.....  
(Sign by Authorized Signatory)

Name - \_\_\_\_\_

Designation - \_\_\_\_\_

Mobile No - \_\_\_\_\_

This is DSC Based Payment. PPA generation not applicable

## PFMS Generated DSC Transaction Payment Advice Report

Agency Name: NATIONAL PROJECT IMPLEMENTATION UNIT-[HBTIKNP]

Debit Bank Name : PUNJAB NATIONAL BANK

Bank Account No: 3702002100031759

Approval date in PFMS: 25-Sep-2021

DSC Signing Date in PFMS: 25-Sep-2021

Amount (in Rs.) : 5,040.00 (*Amount in words : Five Thousand Forty*)

No. Of Beneficiaries: 1

**Not to be used by bank for making any payments**

Debit Payment Advice No.: C092141799021

S.N o.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	FIN. CONTROLLER HARCOURT BUTLER TECHNICAL UNIVERSI	C092140999906	xxxxxxxxxxxx6237	CBIN02832 88		5,040.00
Total Amount(Rs):						5,040.00

.....  
(Sign by Authorized Signatory)

Name - \_\_\_\_\_

Designation - \_\_\_\_\_

Mobile No - \_\_\_\_\_

.....  
(Sign by Authorized Signatory)

Name - \_\_\_\_\_

Designation - \_\_\_\_\_

Mobile No - \_\_\_\_\_

Summary of Classes conducted (Theory and Practical) and Total Hours for Honorarium

All students are from 3<sup>rd</sup> & 4<sup>th</sup> Year MED

Session	Date	Time of class	Type of Class	Hours	Total No. of registered students	Total No. of students attended the	% Attendance
S-1	✓7/28/2021	07:00 PM-09:00 PM					
S-2	✓7/29/2021	07:00 PM-09:00 PM	Theory	2	79	72 ✓	91
S-3	✓7/30/2021	07:00 PM-09:00 PM	Theory	2	79	62 ✓	78
S-4	✓31-07-2021-I	05:00 PM-07:00 PM	Theory	2	79	67 ✓	85
S-5	✓31-07-2021-II	07:00 PM-09:00 PM	Practical	2	79	57 ✓	72
S-6	✓01-08-2021-I	10:30 AM -12:30 PM	Practical	2	79	57 ✓	72
S-7	✓01-08-2021-II	12:30 PM -02:30 PM	Theory	2	79	58 ✓	73
S-8	✓8/2/2021	07:00 PM-09:00 PM	Theory	2	79	56 ✓	71
S-9	✓8/3/2021	07:00 PM-09:00 PM	Theory	2	79	68 ✓	86
S-10	✓8/4/2021	07:00 PM-09:00 PM	Theory	2	79	70 ✓	89
S-11	✓8/5/2021	07:00 PM-09:00 PM	Theory	2	79	69 ✓	87
S-12	✓8/6/2021	07:00 PM-09:00 PM	Theory	2	79	65 ✓	82
S-13	✓8/7/2021	05:00 PM-07:00 PM	Theory	2	79	62 ✓	78
S-14	✓8/7/2021	07:00 PM-09:00 PM	Practical	2	79	65 ✓	82
S-15	✓08-08-2021-I	10:30 AM-12:30 PM	Practical	2	79	56 ✓	71
S-16	✓08-08-2021-II	12:30 PM-02:30 PM	Theory	2	79	61 ✓	77
S-17	✓8/12/2021	07:00 PM-09:00 PM	Theory	2	79	56 ✓	71
S-18	✓8/13/2021	07:00 PM-09:00 PM	Theory	2	79	65 ✓	82
S-19	✓8/14/2021	05:00 PM-07:00 PM	Theory	2	79	55 ✓	70
S-20	✓8/14/2021	07:00 PM-09:00 PM	Practical	2	79	52 ✓	66
S-21	✓8/15/2021	10:30 AM -12:30 PM	Practical	2	79	59 ✓	75
S-22	✓8/16/2021	07:00 PM-09:00 PM	Theory	2	79	53 ✓	67
S-23	✓8/17/2021	07:00 PM-09:00 PM	Theory	2	79	52 ✓	66
S-24	✓8/18/2021	07:00 PM-09:00 PM	Theory	2	79	54 ✓	68
S-25	✓8/19/2021	07:00 PM-09:00 PM	Theory	2	79	32 ✓	41
S-26	✓8/20/2021	07:00 PM-09:00 PM	Practical	2	79	46 ✓	58
S-27	✓21-08-2021-I	05:00 PM-07:00 PM	Practical	2	79	55 ✓	70
S-28	✓21-08-2021-II	07:00 PM-09:00 PM	Theory	2	79	50 ✓	63
S-29	✓8/22/2021	10:30 AM -12:30 PM	Theory	2	79	53 ✓	67
S-30	✓8/23/2021	07:00 PM-09:00 PM	Theory	2	79	36 ✓	46
S-31	✓8/24/2021	07:00 PM-09:00 PM	Theory	2	79	48 ✓	61
S-32	✓8/25/2021	07:00 PM-09:00 PM	Practical	2	79	41 ✓	52
S-33	✓8/26/2021	07:00 PM-09:00 PM	Practical	2	79	51 ✓	65
S-34	✓8/27/2021	07:00 PM-09:00 PM	Practical	2	79	52 ✓	66
S-35	✓8/30/2021	07:00 PM-09:00 PM	Practical	2	79	53 ✓	67
S-36	✓9/1/2021	03:00 PM-05:00 PM	Practical	2	79	50 ✓	63
						57 ✓	72

36 x 2 = 72 hrs  
 Total Theory Hours = (22 x 2) = 44 hrs  
 Total Practical Hours = (14 x 2) = 28 hrs

Total Hours claimed for Honorarium

72 hrs

72 x 700 = 50400 = ₹

Passed for Payment of Rs = 50400 = ₹  
 (40000 Salary + 10400 DA)

Coordinator, TEQIP-II

07/09/2021

Nodal Officer Engineering TEQIP-III  
 Harcourt Butler Technical University  
 Kanpur-208002



Feedback

Feedback + 01/09/2021

(M)

Feedback\_3D Printing and Design

S.No.	Timestamp	Email Address	Full Name	Roll no.	Branch	Content of training program "3-D Printing and Design" (05)	How was the training program? (05)	Knowledge acquired from training program (05)	Overall Rating of the training program (05)
1	9/1/2021 16:03:48	190110046@hnbu.ac.in	Prateek Srivastava	180110046	Mechanical Engineering	5	4	5	5
2	9/1/2021 16:04:26	190110033@hnbu.ac.in	Isha Singh	190110033	Mechanical Engineering	5	5	5	5
3	9/1/2021 16:04:46	190110054@hnbu.ac.in	SHASHANK TIWARI	190110054	Mechanical Engineering	3	3	3	3
4	9/1/2021 16:06:33	190110063@hnbu.ac.in	Sudbeer paswan	190110063	Mechanical Engineering	5	5	5	5
5	9/1/2021 16:07:08	190110036@hnbu.ac.in	SNEHA	180110036	Mechanical Engineering	4	4	4	4
6	9/1/2021 16:07:49	190110052@hnbu.ac.in	SATYENDRA SRIVASTAVA	190110052	Mechanical Engineering	5	5	5	5
7	9/1/2021 16:09:45	170110059@hnbu.ac.in	Tanish Kherola	170110059	Mechanical Engineering	4	3	3	4
8	9/1/2021 16:10:32	190110053@hnbu.ac.in	Shakti Yadav	190110053	Mechanical Engineering	4	4	4	4
9	9/1/2021 16:11:25	190110077@hnbu.ac.in	Vivek Chaurasia	190110077	Mechanical Engineering	4	4	4	4
10	9/1/2021 16:12:44	190110040@hnbu.ac.in	Mohammad Aqib	190110040	Mechanical Engineering	3	3	3	3
11	9/1/2021 16:14:33	190110043@hnbu.ac.in	Nandani	190110043	Mechanical Engineering	5	5	5	5
12	9/1/2021 16:16:45	190110062@hnbu.ac.in	Sudhanshu Tiwari	190110062	Mechanical Engineering	1	1	1	1
13	9/1/2021 16:16:52	190110002@hnbu.ac.in	Akanksha Gupta	190110002	Mechanical Engineering	4	4	4	4
14	9/1/2021 16:17:15	190110024@hnbu.ac.in	Divyansh Singh	190110024	Mechanical Engineering	4	4	4	4
15	9/1/2021 16:17:19	190110035@hnbu.ac.in	Kartik Chauhan	190110035	Mechanical Engineering	5	5	5	5
16	9/1/2021 16:17:23	190110027@hnbu.ac.in	Harsh Verma	190110027	Mechanical Engineering	5	4	5	5
17	9/1/2021 16:25:36	190110060@hnbu.ac.in	Shubham Rana	190110060	Mechanical Engineering	5	4	5	5
18	9/1/2021 16:26:31	190110061@hnbu.ac.in	Sonu Gupta	190110061	Mechanical Engineering	4	4	5	5
19	9/1/2021 16:26:59	190110013@hnbu.ac.in	Atrey Mishra	190110013	Mechanical Engineering	5	5	4	5
20	9/1/2021 16:27:35	190110094@hnbu.ac.in	Sujeet Sahu	190110094	Mechanical Engineering	4	4	4	4
21	9/1/2021 16:29:27	190110067@hnbu.ac.in	Uday gupta	190110067	Mechanical Engineering	4	4	4	4
22	9/1/2021 16:30:03	190110006@hnbu.ac.in	Arpit Yadav	190110006	Mechanical Engineering	4	4	3	3
23	9/1/2021 16:33:11	190110049@hnbu.ac.in	RIYA VERMA	190110049	Mechanical Engineering	3	3	4	4
24	9/1/2021 16:37:51	180110062@hnbu.ac.in	Harshit Srivastava	180110062	Mechanical Engineering	4	4	4	4
25	9/1/2021 16:41:07	180110015@hnbu.ac.in	Anand Kumar Anuragi	180110015	Mechanical Engineering	5	4	5	4
26	9/1/2021 16:41:36	190110070@hnbu.ac.in	Vaibhav Shukla	190110070	Mechanical Engineering	4	4	4	4
27	9/1/2021 16:47:49	180110055@hnbu.ac.in	Sumit kumar	180110055	Mechanical Engineering	4	4	4	4
28	9/1/2021 17:16:45	180110021@hnbu.ac.in	Ashish Kumar	180110021	Mechanical Engineering	5	4	4	3
29	9/1/2021 17:21:37	190110095@hnbu.ac.in	ANUJ SAHU	190110095	Mechanical Engineering	3	4	3	4
30	9/1/2021 17:48:33	190110076@hnbu.ac.in	Vishwas Badal	190110076	Mechanical Engineering	4	4	4	4
31	9/1/2021 17:54:39	190110030@hnbu.ac.in	Himanshu Gupta	190110030	Mechanical Engineering	4	4	5	5
32	9/1/2021 18:02:47	190110041@hnbu.ac.in	Mindul Kumar	190110041	Mechanical Engineering	5	5	5	5
33	9/1/2021 18:17:20	180110061@hnbu.ac.in	Abhishek Singh	180110061	Mechanical Engineering	5	4	3	4
34	9/1/2021 18:43:19	190110045@hnbu.ac.in	Nilesh Singh	190110045	Mechanical Engineering	4	5	5	5
35	9/1/2021 18:44:10	190110038@hnbu.ac.in	Kartik dicit	190110038	Mechanical Engineering	5	5	5	5
36	9/1/2021 18:54:27	190110031@hnbu.ac.in	Hrithik Bhadauria	190110031	Mechanical Engineering	5	2	3	2
37	9/1/2021 18:54:48	190110012@hnbu.ac.in	Ashutosh Kumar	190110012	Mechanical Engineering	3	4	3	4
38	9/1/2021 18:55:00	190110017@hnbu.ac.in	AYUSH GUPTA	190110017	Mechanical Engineering	4	2	4	3
39	9/1/2021 18:55:06	190110032@hnbu.ac.in	Hrithika Kumar Shakya	190110032	Mechanical Engineering	4	3	4	3
40	9/1/2021 18:58:04	190112012@hnbu.ac.in	Geetanjali Prakash	190112012	Mechanical Engineering	3	5	4	4
41	9/1/2021 19:05:24	190110003@hnbu.ac.in	Aakash kumar	190110003	Mechanical Engineering	5			

M  
01/09/21  
(Anshu Singh)

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Feedback\_3D Printing and Design

S.No.	Timestamp	Email Address	Full Name	Roll no.	Branch	Content of training program "3-D Printing and Design" (05)	How was the training program? (05)	Knowledge acquired from training program (05)	Overall Rating of the training program (05)
42	9/1/2021 19:07:22	190110026@hnbtu.ac.in	Harsh Raj Anand	190110025	Mechanical Engineering	4	4	3	4
43	9/1/2021 19:13:51	190110009@hnbtu.ac.in	Aryan Pandey	190110009	Mechanical Engineering	3	3	2	3
44	9/1/2021 19:16:28	190110065@hnbtu.ac.in	Surbhi Gond	190110065	Mechanical Engineering	4	2	4	4
45	9/1/2021 19:17:28	180110031@hnbtu.ac.in	Divyansh Pandey	180110031	Mechanical Engineering	4	4	4	4
46	9/1/2021 19:17:28	180110031@hnbtu.ac.in	Divyansh Pandey	180110031	Mechanical Engineering	5	5	4	5
47	9/1/2021 19:17:28	180110031@hnbtu.ac.in	Divyansh Pandey	180110031	Mechanical Engineering	3	3	3	3
48	9/1/2021 19:58:41	190110015@hnbtu.ac.in	Atyant Kumar Arya	190110015	Mechanical Engineering	4	4	4	4
49	9/1/2021 20:03:50	190110058@hnbtu.ac.in	SHUBHAM KATTIYAR	190110058	Mechanical Engineering	4	4	4	4
50	9/1/2021 20:33:06	190110075@hnbtu.ac.in	Vishal Kumar	190110075	Mechanical Engineering	3	2	1	2
51	9/1/2021 20:47:56	190110046@hnbtu.ac.in	Omjee Sengar	190110046	Mechanical Engineering	5	5	4	4
52	9/1/2021 21:16:20	180110024@hnbtu.ac.in	Avinash Krishna	180110024	Mechanical Engineering	4	5	5	4
53	9/1/2021 21:27:06	190110034@hnbtu.ac.in	Kanika Chaudhary	190110034	Mechanical Engineering	4	5	5	5
54	9/1/2021 23:42:52	190112030@hnbtu.ac.in	SHAURYA VERMA	190112030	Mechanical Engineering	5	5	5	5
55	9/2/2021 11:10:45	180110037@hnbtu.ac.in	Mayank Chaudhary	180110037	Mechanical Engineering	5	5	5	5
56	9/2/2021 11:13:11	180110056@hnbtu.ac.in	Shikher Trivedi	180110056	Mechanical Engineering	4	4	4	4
57	9/2/2021 11:14:10	180110056@hnbtu.ac.in	Swapnil Tiwari	180110056	Mechanical Engineering	4	3	3	4
58	9/2/2021 11:17:23	190110039@hnbtu.ac.in	Manjesh kumar rawat	190110039	Mechanical Engineering	3	3	3	3
59	9/2/2021 11:18:38	190110007@hnbtu.ac.in	Arpit Agrawal	190110007	Mechanical Engineering	4	4	4	4
60	9/2/2021 11:18:46	190110073@hnbtu.ac.in	Vipul Kumar Pandey	190110073	Mechanical Engineering	3	4	5	3
61	9/2/2021 11:46:15	190110019@hnbtu.ac.in	Ayush Rai	190110019	Mechanical Engineering	5	5	3	3
62	9/2/2021 11:47:46	190110028@hnbtu.ac.in	Himanshu	190110028	Mechanical Engineering	4	4	3	4
63	9/2/2021 12:50:12	190110051@hnbtu.ac.in	Sambhav Jain	190110051	Mechanical Engineering	5	3	4	4
64	9/2/2021 14:31:14	180110025@hnbtu.ac.in	AVISHKAR CHANDEL	180110025	Mechanical Engineering	4	4	5	5
65	9/2/2021 14:38:41	190110014@hnbtu.ac.in	Atul upadhyay	190110014	Mechanical engineering	5	5	5	5
66	9/2/2021 14:45:51	190110023@hnbtu.ac.in	Divyansh asthana	190110023	Mechanical engineering	4	4	4	4
67	9/2/2021 14:52:11	190110074@hnbtu.ac.in	Vishal Chaudhary	190110074	Mechanical Engineering	4	1	2	3
68	9/2/2021 15:04:12	180110033@hnbtu.ac.in	Govind kumar	180110033	Mechanical engineering	1	3	3	3
69	9/2/2021 15:08:55	190110066@hnbtu.ac.in	Archana Devi	190110066	Mechanical engineering	3	3	4	3
70	9/4/2021 15:31:15	190110066@hnbtu.ac.in	Tapish Garg	190110066	Mechanical Engineering	3	4	5	3
71	9/4/2021 15:32:30	190110010@hnbtu.ac.in	Aryan Verma	190110010	Mechanical engineering	3	4	4	4
72	9/4/2021 15:34:21	190110020@hnbtu.ac.in	Ayush Tiwan	190110020	Mechanical engineering	4	3	3	2
73	9/4/2021 15:37:51	180110049@hnbtu.ac.in	Rahul Maurya	180110049	Mechanical engineering	3	3	2	3
74	9/4/2021 16:00:57	190110068@hnbtu.ac.in	Utkarsh Awasthi	190110068	Mechanical engineering	4	5	4	5
75	9/4/2021 16:07:50	190110025@hnbtu.ac.in	Divyanshu Patel	190110025	Mechanical engineering	4	5	5	5
76	9/4/2021 16:20:29	180110005@hnbtu.ac.in	Abhishek Sonker	180110005	Mechanical engineering	5	4	4	4
77	9/4/2021 18:56:56	190110004@hnbtu.ac.in	Anubhav Gupta	190110004	Mechanical engineering	4	4	3	3
78	9/5/2021 5:27:35	180110050@hnbtu.ac.in	Ranjeet Kumar	180110050	Mechanical engineering	4	3.94	3.91	3.94

Average Feedback (out of 05)

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V Dixit

By  
07/10/21  
(Rishi Singh)

(Signature)

Registered students list through Google form. (79 students)

128

S. No.	Student Name	Email id	Branch	Gender	Date of Birth
1	Tanish kherotra	tanishkherotra@gmail.com	Mechanical Engineering	Male	04/03/1998
2	Aman Lodhi	180110012@hbtu.ac.in	Mechanical Engineering	Male	01/07/2000
3	Harsh verma	190110027@hbtu.ac.in	Mechanical Engineering	Male	16/06/2000
4	AVISHKAR CHANDEL	avishkar_chandel14@gmail.com	Mechanical Engineering	Male	14/09/1999
5	Uday gupta	190110067@hbtu.ac.in	Mechanical Engineering	Male	15/03/2001
6	Divyansh Pandey	180110031@hbtu.ac.in	Mechanical Engineering	Male	25/07/2000
7	Sonu Gupta	190110061@hbtu.ac.in	Mechanical Engineering	Male	12/01/1999
8	Kartik dixit	190110036@hbtu.ac.in	Mechanical Engineering	Male	18/11/1999
9	Sambhav Jain	sambhavjain360.sj@gmail.com	Mechanical Engineering	Male	06/09/2001
10	Shikher Triwedi	190110056@hbtu.ac.in	Mechanical Engineering	Male	13/04/2001
11	RIYA VERMA	190110049@hbtu.ac.in	Mechanical Engineering	Female	27/06/2001
12	Ashish Kumar	180110021@hbtu.ac.in	Mechanical Engineering	Male	26/11/1999
13	SHASHANK TIWARI	190110054@hbtu.ac.in	Mechanical Engineering	Male	16/06/2002
14	Shubham Rana	190110060@hbtu.ac.in	Mechanical Engineering	Male	06/09/2000
15	Abhishek Singh	180110003@hbtu.ac.in	Mechanical Engineering	Male	29/07/2000
16	Aryan Pandey	190110009@hbtu.ac.in	Mechanical Engineering	Male	22/08/2001
17	Tapish Garg	190110066@hbtu.ac.in	Mechanical Engineering	Male	25/01/2000
18	Himanshu	180110034@hbtu.ac.in	Mechanical Engineering	Male	03/05/2000
19	ISHA SINGH	190110033@hbtu.ac.in	Mechanical Engineering	Female	22/06/2000
20	Ayush Rai	raiyush991230@gmail.com	Mechanical Engineering	Male	30/12/2001
21	Kartik Chauhan	190110035@hbtu.ac.in	Mechanical Engineering	Male	21/01/2002
22	DEEPAK KUMAR	deepakkumar43607@gmail.com	Mechanical Engineering	Male	15/11/1999
23	Ashutosh Kumar	190110012@hbtu.ac.in	Mechanical Engineering	Male	31/07/1999
24	Prateek Srivastava	180110046@hbtu.ac.in	Mechanical Engineering	Male	08/08/2002
25	Himanshu Gupta	190110030@hbtu.ac.in	Mechanical Engineering	Male	22/05/2000
26	Utkarsh Awasthi	190110068@hbtu.ac.in	Mechanical Engineering	Male	27/12/2021
27	Km. Sneha	180110036@hbtu.ac.in	Mechanical Engineering	Female	28/04/2001
28	Vishwas Badal	190110076@hbtu.ac.in	Mechanical Engineering	Male	11/12/2001
29	SATYENDRA SRIVASTAVA	190110052@hbtu.ac.in	Mechanical Engineering	Male	30/03/2000
30	Nitesh Singh	190110045@hbtu.ac.in	Mechanical Engineering	Male	01/09/1999
31	Akash kumar	190110003@hbtu.ac.in	Mechanical Engineering	Male	08/10/2000
32	Atrey Mishra	190110013@hbtu.ac.in	Mechanical Engineering	Male	17/10/2000
33	Sujeet Sabu	190110064@hbtu.ac.in	Mechanical Engineering	Male	25/01/2001
34	Anubhav gupta	190110004@hbtu.ac.in	Mechanical Engineering	Male	09/01/2001
35	Vivek Chaurasia	190110077@hbtu.ac.in	Mechanical Engineering	Male	25/01/2001
36	Mohit Singh	180110038@hbtu.ac.in	Mechanical Engineering	Male	09/01/1998
37	Surbhi Good	surbhigond20@gmail.com	Mechanical Engineering	Female	03/06/2001
38	ARPIT YADAV	190110008@hbtu.ac.in	Mechanical Engineering	Male	16/10/2001
39	Shakti Yadav	190110053@hbtu.ac.in	Mechanical Engineering	Male	28/05/2001
40	ARPIT AGRAWAL	190110007@hbtu.ac.in	Mechanical Engineering	Male	13/02/1999
41	Abhishek Sonker	180110005@hbtu.ac.in	Mechanical Engineering	Male	25/10/2000
42	AYUSH GUPTA	190110017@hbtu.ac.in	Mechanical Engineering	Male	23/12/2001
43	Swapnil Tiwari	tiwariswapnil903@gmail.com	Mechanical Engineering	Male	22/01/2000
44	Aryan Verma	190110010@hbtu.ac.in	Mechanical Engineering	Male	17/12/2001
45	Shaurya Verma	190112030@hbtu.ac.in	Mechanical Engineering	Male	12/10/2012
46	Omjee Sengar	190110046@HBTU.AC.IN	Mechanical Engineering	Male	

Notal Officer Engin  
12/10/2012  
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Bharat Bhattar Tech  
KODIT-2



1	ANUJ SAHU	190110005@hbtu.ac.in	Mechanical Engineering	Male	06/12/2000
2	Mohammad Aqib	190110040@hbtu.ac.in	Mechanical Engineering	Male	05/06/2000
3	Divyanshu asthana	divyanshasthana123@gmail.com	Mechanical Engineering	Male	01/11/2003
4	Govind kumar	govindkumar4587@gmail.com	Mechanical Engineering	Male	05/11/2000
5	Sudhanshu Tiwari	190110062@hbtu.ac.in	Mechanical Engineering	Male	09/04/2002
6	Vishal Chaudhary	190110074@hbtu.ac.in	Mechanical Engineering	Male	12/06/2000
7	Divyanshu Patel	pateldivyanshu3@gmail.com	Mechanical Engineering	Male	14/09/2001
8	Archana Devi	190110006@hbtu.ac.in	Mechanical Engineering	Female	11/06/1999
9	Varun arora	190110071@hbtu.ac.in	Mechanical Engineering	Male	03/09/2001
10	Geetanjali Prakash	geetanjaliprakash4@gmail.com	Mechanical Engineering	Female	06/08/2000
11	Himanshu	190110028@HBTU.AC.IN	Mechanical Engineering	Male	08/05/2000
12	Nandani	190110043@hbtu.ac.in	Mechanical Engineering	Female	10/08/2001
13	Sumit Kumar	nikhilsingh724289@gmail.com	Mechanical Engineering	Male	10/07/2000
14	DIVYANSH SINGH	190110024@hbtu.ac.in	Mechanical Engineering	Male	15/12/2000
15	Vaibhav Shukla	190110070@hbtu.ac.in	Mechanical Engineering	Male	24/10/2000
16	Abhishek Singh	180110061@hbtu.ac.in	Mechanical Engineering	Male	01/06/2000
17	RANJEET KUMAR	180110050@hbtu.ac.in	Mechanical Engineering	Male	05/03/2000
18	Anand Kumar Anuragi	anandanuragi21@gmail.com	Mechanical Engineering	Male	16/11/2000
19	Mayank Chaudhary	180110037@hbtu.ac.in	Mechanical Engineering	Male	23/11/2000
20	Harshit Srivastava	180110062@hbtu.ac.in	Mechanical Engineering	Male	26/02/2000
21	Avinash Krishna	180110024@hbtu.ac.in	Mechanical Engineering	Male	15/08/2000
22	Hritika Kumari Shakya	190110032@hbtu.ac.in	Mechanical Engineering	Female	04/06/2002
23	RAHUL MAURYA	180110049@hbtu.ac.in	Mechanical Engineering	Male	07/05/2000
24	Harsh Raj Anand	190110026@hbtu.ac.in	Mechanical Engineering	Male	17/05/2003
25	Kriti Singh	190110037@hbtu.ac.in	Mechanical Engineering	Female	04/02/2000
26	MANJESH KUMAR RAWAT	190110039@hbtu.ac.in	Mechanical Engineering	Male	05/07/2000
27	Ayush Tiwari	190110020@hbtu.ac.in	Mechanical Engineering	Male	18/07/2001
28	SHUBHAM KATIYAR	190110058@hbtu.ac.in	Mechanical Engineering	Male	20/08/2000
29	Kanika Chaudhary	190110034@hbtu.ac.in	Mechanical Engineering	Female	03/05/2001
30	Hrithik Bhadauria	190110031@hbtu.ac.in	Mechanical Engineering	Male	08/01/2000
31	Akanksha Gupta	190110002@hbtu.ac.in	Mechanical Engineering	Female	26/01/2002
32	ATYANT KUMAR ARYA	190110015@hbtu.ac.in	Mechanical Engineering	Male	05/10/2000
33	Mridul Kumar	190110041@hbtu.ac.in	Mechanical Engineering	Male	28/10/2001

*[Signature]*  
15/11/24


Verified

*[Signature]*  
V. Dixit

Nodal Officer Engineering TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

Session - 5-1  
**Attendance-Future Skill Training "3D Printing and design"-28th July 2021**

S.No.	Timestamp	Email Address	Name	Roll No.	Branch	Gender	Mobile No.	DOB
1	7/28/2021 19:17:03	190110034@hbtu.ac.in	Kanika Chaudhary	190110034	Mechanical Engineering	Female	7983878599	9/3/2001
2	7/28/2021 19:17:05	190110009@HBTU.AC.IN	Aryan Pandey	190110009	Mechanical Engineering	Male	9336043494	8/22/2001
3	7/28/2021 19:17:05	180110046@hbtu.ac.in	Prateek Srivastava	180110046	Mechanical Engineering	Male		
4	7/28/2021 19:17:22	kumarj2611@gmail.com	Ashish Kumar	180110021	Mechanical Engineering	Male	+917906514261	11/26/1998
5	7/28/2021 19:17:23	190110060@hbtu.ac.in	Shubham Rana	190110060	Mechanical Engineering	Male	06397575958	9/9/2000
6	7/28/2021 19:17:23	190110053@hbtu.ac.in	Shakti Yadav	190110053	Mechanical Engineering	Male	6392099300	5/28/2001
7	7/28/2021 19:17:25	190112012@hbtu.ac.in	Geetanjali Prakash	190112012	Mechanical Engineering	Female	9309258045	8/6/2000
8	7/28/2021 19:17:28	190110010@gmail.com	Aryan Verma	190110010	Mechanical Engineering	Male	9519441112	12/17/2001
9	7/28/2021 19:17:28	180110061@hbtu.ac.in	Abhishek Singh	180110061	Mechanical Engineering	Male	8318623462	6/1/2000
10	7/28/2021 19:17:30	190110028@HBTU.AC.IN	Himanshu	190110028	Mechanical Engineering	Male	6392430338	5/8/2000
11	7/28/2021 19:17:35	190110003@gmail.com	Akash kumar	190110003	Mechanical Engineering	Male	8950306750	
12	7/28/2021 19:17:46	190110071@hbtu.ac.in	VARUN ARORA	190110071	Mechanical Engineering	Male	7985601037	9/3/2001
13	7/28/2021 19:17:49	raiyayush91230@gmail.com	Ayush Rai	190110019	Mechanical Engineering	Male	9628966655	12/30/2001
14	7/28/2021 19:17:52	190110056@hbtu.ac.in	Shikher Trivedi	190110056	Mechanical Engineering	Male	6387611363	4/13/2001
15	7/28/2021 19:17:53	190110076@hbtu.ac.in	VISHWAS BADAL	190110076	Mechanical Engineering	Male	8081315195	12/11/2001
16	7/28/2021 19:17:55	190110068@hbtu.ac.in	UTKARSH AWASTHI	190110068	Mechanical Engineering	Male	9811767479	12/27/2001
17	7/28/2021 19:17:58	190110046@hbtu.ac.in	Omjee Sengar	190110046	Mechanical Engineering	Male	8957302310	3/5/2000
18	7/28/2021 19:18:00	190110020@hbtu.ac.in	Ayush Tiwari	190110020	Mechanical Engineering	Male	9450912820	3/18/2001
19	7/28/2021 19:18:00	190110040@hbtu.ac.in	Mohammad Aqib	190110040	Mechanical Engineering	Male	7983632115	6/5/2000
20	7/28/2021 19:18:03	190110070@hbtu.ac.in	VAIBHAV SHUKLA	190110070	Mechanical Engineering	Male	9026405159	10/24/2000
21	7/28/2021 19:18:04	190110037@hbtu.ac.in	Kriti Singh	190110037	Mechanical Engineering	Female	6367211270	2/4/2000
22	7/28/2021 19:18:05	190110025@hbtu.ac.in	Divyanshu Patel	190110025	Mechanical Engineering	Male	9170601908	9/14/2001
23	7/28/2021 19:18:08	180110036@hbtu.ac.in	Km. Sneha	180110036	Mechanical Engineering	Female	8409622790	4/28/2001
24	7/28/2021 19:18:09	190110006@hbtu.ac.in	Archana Devi	190110006	Mechanical Engineering	Female	7355495097	6/11/1999
25	7/28/2021 19:18:10	180110037@hbtu.ac.in	Mayank Chaudhary	180110037	Mechanical Engineering	Male	6397254994	11/23/2000
26	7/28/2021 19:18:12	divyanshasthana123@gmail.com	Divyansh asthana	190110023	Mechanical Engineering	Male	7505520190	1/11/2002
27	7/28/2021 19:18:13	190110052@HBTU.AC.IN	SATYENDRA SRIVASTAVA	190110052	Mechanical Engineering	Male	9936859947	3/30/2000
28	7/28/2021 19:18:17	190110058@hbtu.ac.in	SHUBHAM KATIYAR	190110058	Mechanical Engineering	Male	9305904879	8/29/2000
29	7/28/2021 19:18:27	190110031@hbtu.ac.in	Hrithik Bhadauria	190110031	Mechanical Engineering	Male	8112620789	1/8/2000
30	7/28/2021 19:18:35	190110013@hbtu.ac.in	Atrey Mishra	190110013	Mechanical Engineering	Male	6396293679	10/17/2000
31	7/28/2021 19:18:39	190110033@hbtu.ac.in	ISHA SINGH	190110033	Mechanical Engineering	Female	9984730600	6/22/2000
32	7/28/2021 19:18:40	190110036@hbtu.ac.in	Kartik dixit	190110036	Mechanical Engineering	Male	8756514405	9/18/2000
33	7/28/2021 19:18:42	190110005@hbtu.ac.in	ANUJ SAHU	190110005	Mechanical Engineering	Male	8115384712	12/6/2000
34	7/28/2021 19:18:44	190110061@hbtu.ac.in	Sonu Gupta	190110061	Mechanical Engineering	Male	7347703525	11/21/1999

  
 1.3.2021  
 Coordinator TEQIP-III  
 Harcourt Butler Technical University  
 Kanpur-208002

विशेष नोटिस

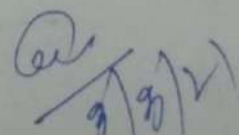
अज्ञात पूर्व कुछ संख्या परल सहयोग करी अगरी प्रेषी  
 के अंत मर Mrs. Nagamika Srivastava ASST Prof NPIU एत विमर्श आं Classification  
 मर आगोतरी अरु अरु अरु, Mrs. Srivastava करी मरि  
 16-8-20 से 11-10-20 तम Internet of Things एत Lecture Delome विमर्श  
 मर मर विमर्श Lecture Delivery Plan संकेत एत तथा 700=70000 एत  
 के अज्ञात देम एत. कुल 80 घंटे एत तथा प्रस्तुत विमर्श मर एत  
 विमर्श विवरण निम्न एत.

1. Mrs. Nagamika Srivastava, 80 Hrs x 700 = ₹ 56000 =

सहाय अगरी अज्ञात एत अरु अज्ञात अरु एत  
 अज्ञात एत 1.1.2.3 Graduate Employability अज्ञात एत कुल अज्ञात,  
 ₹ 56000 (2 एत एत मर) एत अज्ञात Mrs. Nagamika Srivastava  
 NPIU faculty एत विमर्श अरु विमर्श अरु विमर्श एत अज्ञात अज्ञात  
 एत, आपने निचक्र एत.

RHP  
 02.03.2021  
 (अज्ञात)  
 अज्ञात


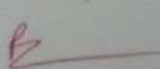
23-21  
 वित्त एवं लेखाधिकारी


  
 वित्त नियंत्रक

Passed for Payment of ₹ = 56000 =

मा कुलपति

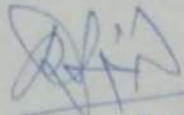
(अज्ञात एत मर)

  
 Coordinator, TEQIP-III  


  
 04 MAR 2021  
 कुलपति  
 हार्दट बटलर प्राविधिक विश्वविद्यालय  
 कानपुर-2



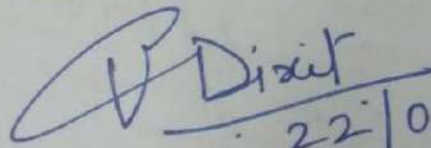
Nodal officer (Engg)



22/02/2021

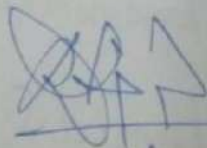
Coordinator, TEQIP-III

As per the direction of NPIU, 84 hours training was imparted to students on future Skill Technology "Internet of Things" by Mrs. Nayanica Srivastava, Asstt. Prof., ETD. The payment of Rs. 56,000/- may be made under component code I.1.2.3 "Graduate Employability" as per approved action plan of TEQIP-III.




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22/02/2021

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

R.L.  
  
22/2/21

Date: 03/07/2020

The Coordinator TEQIP  
HBTU, Kanpur

**Subject-** For approval of remuneration as per circular of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492) and providing consent to conduct the Student Training on "Future Skill Technologies (IoT)" through Online Mode.

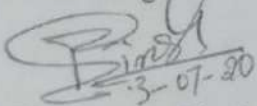
Respected Sir,

I would like to inform you that we are planning to conduct student training programme on future skill technology "Internet of Things (IoT)" as per direction of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492). In this series, we have made two batches (60 students in each batch) after taking willingness of students through google form. The proposed Lecture delivery plan (tentative) and details of students in list of Batches are attached herewith this letter. As per curriculum provided by NPIU and IIT Bombay total hours taken to complete the curriculum is 80 hours (40 Theory + 40 Lab).

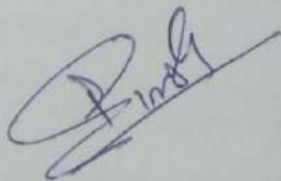
Therefore we request you to permit us to conduct the training programme and approve the remuneration for faculty mentors i.e. Rs. 700/- per hour as per circular of NPIU (detailed circular from NPIU is enclosed herewith).

\* Original Approval is attached in Dr. Raghwendra Singh  
payment file, Online Future Skill Technology  
- Srivastava

With warm regards



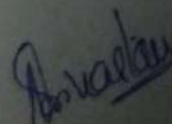
Dr. Raghwendra Singh  
Assistant Professor (TEQIP-III)  
Department of Mathematics



on leave

Mrs. Nayanica Srivastava  
Assistant Professor (TEQIP-III)  
Dept. Of ET, HBTU

(her consent is attached)  
(copy of gmail)



Office of the TEQIP-III,  
HBTU, Kanpur

Ref. No.: 455 /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	Area
1	✓ Mr. Dharmendra Kumar Singh	Robotics & Automation
2	✓ Dr. Manish Kumar Singh	Robotics & Automation
3	✓ Dr. Shailendra kumar pandey	Data Science & Analytics
4	✓ Mrs. Nayanica Srivastava	Internet of Things
5	✓ Dr. Raghwendra Singh	Internet of Things
6	✓ 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.

(Prof. Raghuraj Singh)  
Coordinator, TEQIP-III

discuss  
17 JUN 2020

17 JUN 2020

कुलपति

के.के.टी. इंस्टीट्यूट ऑफ़ टेक्नॉलॉजी  
कानपुर-208002

Matter was discussed on 18-6-2020  
may be approved.

18-6-2020



**NPIU**

राष्ट्रीय परियोजना कार्यान्वयन एकक

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

*National Project Implementation Unit*

(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/2020/492

Date: 07-02-2020

**CIRCULAR**

I offer my sincere thanks to Heads of TEQIP 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.

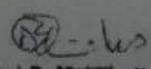
While the faculty training is already completed at few IITs and also Diagnostic Test of majority students completed through Sector Skill Council NASSCOM, it is a high time to schedule the student training program at each institute level. As a next step, the trained faculty is required to further train 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 lab 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.
- \* 8. 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 [lnagar.teqip@gmail.com](mailto:lnagar.teqip@gmail.com) or 8827749689.

With Regards,

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

To:

1. All Institutions (1.1 & 1.3)

Copy to:

1. All SPIUs

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

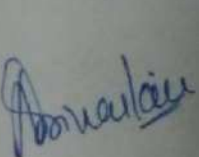
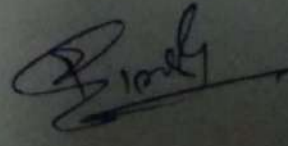
दूरभाष / Phone : +91-11-26941003/04/06/08/09/29  
फैक्स / Fax : +91-11-26941012, 26941014  
वेब साइट / Web site : [www.npiu.nic.in](http://www.npiu.nic.in)  
ई-मेल / E-mail : [npiu-mhrd@gov.in](mailto:npiu-mhrd@gov.in)

## Lecture Delivery Plan

**Course title:** Internet of Things (IoT)

**Duration:** 5:00 PM-8:00 PM (03 hrs.) Batch II,

S.No	Module	Curriculum	Date
1.	I: IoT Introduction and Fundamentals	<ul style="list-style-type: none"> <li>• Deciphering the term IoT</li> <li>• Applications where IoT can be deployed</li> <li>• Benefits/challenges of deploying an IoT</li> <li>• IoT components: Sensors, front-end electronics (amplifiers, filtering, digitization), digital signal processing, data transmission, choice of channel (wired/wireless), back-end data analysis.</li> <li>• Understanding packaging and power constraints for IoT implementation.</li> </ul>	<u>16-07-2020,(3 hrs)</u>
	II: Signals, Sensors, Actuators, Interfaces	<ul style="list-style-type: none"> <li>• Sensors: types, signal types, shape and strength</li> </ul>	<u>19-08-2020,(3 hrs)</u>
		<ul style="list-style-type: none"> <li>• Sensor non-idealities: Sensitivity and offset drift, noise, minimum detectable signal, nonlinearity</li> </ul>	<u>20-08-2020,(3 hrs)</u>
		<ul style="list-style-type: none"> <li>• Read-out circuits: Instrumentation-amplifier, SNR definition, noise-bandwidth-power Tradeoff</li> <li>• Circuit component mismatch and mitigation techniques (calibration, chopping, autozeroing etc.)</li> </ul>	21-08-2020,(3 hrs) 22-08-2020, (3 hrs) <span style="color: red; font-size: 1.2em;">6 hrs</span>
		<ul style="list-style-type: none"> <li>• Power/energy considerations Basic signal processing (filtering, quantization, computation, storage)</li> </ul>	<u>24-08-2020,(3 hrs)</u>
	III: Networking and Cloud Computing in IoT	<ul style="list-style-type: none"> <li>• Review of Communication Networks, Challenges in Networking of IoT Nodes, range, Bandwidth, Machine-to-Machine (M2M) and IoT Technology Fundamentals, Medium Access Control</li> </ul>	<u>25-08-2020,(3 hrs)</u>



	<ul style="list-style-type: none"> <li>Identify a hardware/software platform that is open-source with flexibility and students have some prior exposure (either in a microprocessor or embedded systems lab).</li> <li>Experiment involving a microcontroller with wireless enabled peripheral – interfacing of sensors, communicating data to a local server, fusion at the server, sending actuator signals from the server</li> </ul>	08-09-2020, (3 hrs) 17-09-2020, (3 hrs) 18-09-2020, (3 hrs) 21-09-2020, (3 hrs) 24-09-2020, (3 hrs)	15 Hrs
	<ul style="list-style-type: none"> <li>Experiment involving simple audio/speech processing on DSP or Raspberry Pi (optional), two mini-projects focused on realizing practical IoT applications</li> </ul>	28-09-2020, (3 hrs) 29-09-2020, (3 hrs) 09-10-2020, (3 hrs) 11-10-2020, (3 hrs)	12 Hrs

• Faculty Mentor:

- 1) Mrs. Nayanica Srivastava (Assistant Professor (TEQIP-III), Dept. Of Electronics Engineering, HBTU, Kanpur)

80 Hrs x 700 = 56000 = 0

16-8-20	- 3 Hrs	2-9-20	- 3 Hrs
19-8-20	- 3 Hrs	3-9-20	- 3 Hrs
20-8-20	- 3 Hrs	4-9-20	- 3 Hrs
21-8 to 22-8-20	- 6 Hrs	5-9-20	- 3 Hrs
24-8-20	→ 3 Hrs	7-9-20	- 3 Hrs
25-8-20	→ 3 Hrs	8-9-20	- 3 Hrs
26-8-20	→ 3 Hrs	17-9-20	- 3 Hrs
27-8-20	3 Hrs	18-9-20	- 3 Hrs
28-8-20	3 Hrs	21-9-20	- 3 Hrs
29-8-20	3 Hrs	24-9-20	- 3 Hrs
30-8-20	3 Hrs	28-9-20	- 3 Hrs
31-8-20	3 Hrs	29-9-20	- 3 Hrs
1-9-20	3 Hrs	9-10-20	- 3 Hrs
2-9-20	3 Hrs	11-10-20	- 3 Hrs
		<u>42 Hrs</u>	<u>42 Hrs</u>

Passed for payment of Rs = 56000 = 0  
(Fifty Six thousand only)

*[Signature]*  
Coordinator TEQIP-III

*[Signature]*  
Srivastava

*[Signature]*  
Total 84 Hrs  
Claim 80 Hrs



# Lecture Delivery Plan (LDP) regarding Student Training on Future Skill Technologies through Online Mode by Faculty Trained at IITs

**Course title:** Internet of Things (IoT)

## Motivation for this curriculum:

In our view, a course on 'Internet of Things' (IoT) is difficult to be considered as one course. This is mainly because IoT involves several concepts/components which are themselves taught in full semester courses. Further, even if offered as a course (or a set of courses) it can have different focus areas depending on whether it is offered as (i) an Electrical Engineering or (ii) Computer science. Here, we suggest a curriculum from an Electrical Engineering (EE, EC, or in GATE) perspective. It is better if this course is considered as a two parts course, if an 80 hours curriculum is envisaged.

## Pre-requisites:

Microprocessors, Instrumentation, Analog/Digital Circuits, Signal processing, Basics of Communication Systems, Probability, Programming language (C/Python)

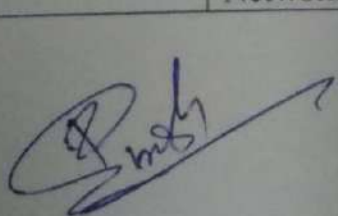
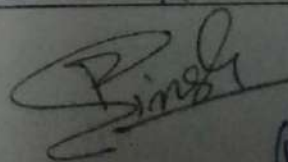
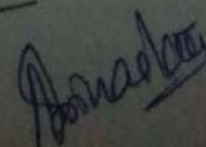
Focused Students: B.Tech and M.Tech

Duration: 80 hrs

## Timeline and Course content:

S.No	Module	Curriculum	Timeline	Expected No. Of Students
1.	I: IoT Introduction and Fundamentals	<ul style="list-style-type: none"> <li>Deciphering the term IoT</li> <li>Applications where IoT can be deployed</li> <li>Benefits/challenges of deploying an IoT</li> <li>IoT components: Sensors, front-end electronics (amplifiers, filtering, digitization), digital signal processing, data transmission, choice of channel (wired/wireless), back-end data analysis.</li> <li>Understanding packaging and power</li> </ul>	<p><b>03 hours</b> Day 1: 03 hrs (Batch-I) (Batch-II)</p> <p><b>Total : 03 hrs per Batch</b></p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>

		constraints for IoT implementation.		
2.	<b>II: Signals, Sensors, Actuators, Interfaces</b>	<ul style="list-style-type: none"> <li>• Sensors: types, signal types, shape and strength</li> <li>• Sensor non-idealities: Sensitivity and offset drift, noise, minimum detectable signal, nonlinearity</li> <li>• Read-out circuits: Instrumentation-amplifier, SNR definition, noise-bandwidth-power tradeoff</li> <li>• Circuit component mismatch and mitigation techniques (calibration, chopping, autozeroing etc.)</li> <li>• Power/energy considerations</li> <li>• Basic signal processing (filtering, quantization, computation, storage)</li> </ul>	<b>15 hrs</b>  Day-2 (03 hrs.) (Batch-I) (Batch-II)  Day -3 (03 hrs) (Batch-I) (Batch-II)  Day-4 (03 hrs) (Batch-I) (Batch-II)  Day-5 (03 hrs) (Batch-I) (Batch-II)  Day-6 (03 hrs) (Batch-I) (Batch-II)  <b>Total : 5*3=15 hrs per Batch</b>	2 Batches (One Faculty Mentor with each batch) (60 each)  Total= 60*2=120
3.	<b>III: Networking and Cloud Computing in IoT</b>	<ul style="list-style-type: none"> <li>• Review of Communication Networks, Challenges in Networking of IoT Nodes, range, bandwidth</li> <li>• Machine-to-Machine (M2M) and IoT Technology Fundamentals, Medium Access Control (MAC) Protocols for M2M Communications 2 of 2</li> <li>• Standards for the IoT</li> <li>• Basics of 5G Cellular Networks and 5G IoT</li> </ul>	<b>15 hrs</b>  Day-7 (03 hrs.) (Batch-I) (Batch-II) Day -8 (03 hrs) (Batch-I) (Batch-II)  Day-9(03 hrs) (Batch-I) (Batch-II)  Day-10(03 hrs) (Batch-I(60))	2 Batches (One Faculty Mentor with each batch) (60 each)  Total = 60*2=120

		<p>Communications, Low-Power Wide Area Networks (LPWAN)</p> <ul style="list-style-type: none"> <li>• Wireless communication for IoT: channel models, power budgets, data rates</li> <li>• IoT Security and Privacy, MQTT Protocol, Publisher and Subscriber Model</li> <li>• Cloud computing platform (open source) and local setup of such environment</li> <li>• Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces</li> </ul>	<p>(Batch-II(60))</p> <p>Day-11(03 hrs) (Batch-I(60)) (Batch-II(60))</p> <p><b>Total : 5*3=15 hrs per Batch</b></p>	
4.	<b>IV: Data Analysis for IoT applications</b>	<ul style="list-style-type: none"> <li>• Statistics relevant to large data</li> <li>• Linear regression</li> <li>• Basics of clustering, classification</li> </ul>	<p><b>07 hrs</b></p> <p>Day-12 (03 hrs.) (Batch-I(60)) (Batch-II(60))</p> <p>Day -13 (04 hrs) (Batch-I(60)) (Batch-II(60))</p> <p><b>Total : 03 hrs +04 hrs =07 hrs per Batch</b></p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>
	<b>V: Hardware/software Experiments/labs</b>	<p>Set of experiments (using Arduino, Raspberry Pi, DSPs, custom board) to understand and experiment with the theoretical aspects that were covered in various modules, culminating in one or more mini-projects.</p>	<p><b>40 hrs</b></p> <p>Day-14(04 hrs.) (Batch-I) (Batch-II)</p> <p>Day -15 (04 hrs) (Batch-I) (Batch-II)</p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>

*Singh*

*Singh*

*Aravind*



	<ul style="list-style-type: none"> <li>• Identify a hardware/software platform that is open-source with flexibility and students have some prior exposure (either in a microprocessor or embedded systems lab). Suggestion: Thingsboard and Arduino</li> <li>○ Experiment involving a microcontroller with wireless enabled peripheral – interfacing of sensors, communicating data to a local server, fusion at the server, sending actuator signals from the server (approximately 3 to 4 experiments)</li> <li>• Experiment involving simple audio/speech processing on DSP or Raspberry Pi (optional)</li> <li>• Atleast two or three mini-projects focused on realizing practical IoT applications</li> </ul>	<p>Day -16 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -17 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -18 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -19 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -20 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -21 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -22 (04 hrs) (Batch-I) (Batch-II)</p> <p>Day -23 (04 hrs) (Batch-I) (Batch-II)</p> <p><b>Total= 04*10 days=40 hrs.</b></p>	
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• Faculty Mentor:

- 1) **Dr. Raghwendra Singh** (Assistant Professor (TEQIP-III), Dept. Of Mathematics, HBTU, Kanpur)
- 2) **Mrs. Nayanica Srivastava** (Assistant Professor (TEQIP-III), Dept. Of ET, HBTU, Kanpur)

333	Rajasthan	Govt. Engineering College, Bikaner	Rishi Raj Vyas
334	Rajasthan	M.B.M. engg college, jodhpur	Bijayalaxmi saho
335	Rajasthan	M.B.M. Engineering College, Jodhpur	Kanti Lal Solanki
336	Rajasthan	MBM Engg College, Jodhpur	Amit Dixit
337	Rajasthan	MBM Engg College, Jodhpur	TARUN SACHDEVA
338	Rajasthan	MBM Engg College, Jodhpur	Simran Choudhary
339	Rajasthan	MBM Engg College, Jodhpur	Kayenat Shahid
340	Rajasthan	MBM Engg College, Jodhpur	DEEPIKA KAMBOJ
341	Rajasthan	MBM Engg College, Jodhpur	Shri. Amey Shashikant Kulkarni
342	Rajasthan	MBM Engg College, Jodhpur	AMIT VISHWAKARMA
343	Rajasthan	MBM Engg College, Jodhpur	Jagmohan Shree Rao
344	Rajasthan	MBM Engg College, Jodhpur	Rimpy Khokhar
345	Rajasthan	MLV Textile & Engineering Colege, Bhilwara	Chandan Kumar Choubey
346	Rajasthan	MLV Textile & Engineering Colege, Bhilwara	Rahul Singh Mourya
347	Rajasthan	MLV Textile & Engineering College, Bhilwara	Lakhan Dev Sharma
348	Rajasthan	MLV Textile and Engineering college, Bhilwara	Pooja Khandelwal
349	Rajasthan	MLV Textile and Enginnering College	Balaji Tripathi
350	Rajasthan	University College of Engineering, RTU Kota	Pankaj Kumar
351	Rajasthan	University College of Engineering, RTU Kota	T V S Kalyan Chakravarthi
352	Rajasthan	University College of Engineering, RTU Kota	Vipin Prakash yadav
353	Rajasthan	University Department, RTU, Kota, Rajasthan	Sawan Singh
354	Tamil Nadu	Alagappa Chettiar College of Engg & Tech, Karaikudi	S.Syed Suhaila
355	Tamil Nadu	Alagappa Chettiar College of Engineering & Technology, Karaikudi	S. Aasaimani
356	Tamil Nadu	Alagappa Chettiar College of Engineering & Technology, Karaikudi	K.Sundarakrishnan
358	Tamil Nadu	Alagappa Chettiar College of Engineering & Technology, Karaikudi	M. Balasubramonian
357	Tamil Nadu	Alagappa Chettiar Government College of Engg & Tech, Karaikudi	Pradeep V
359	Tamil Nadu	CIT, Coimbatore	Ravi Sankar
360	Tamil Nadu	Coimbatore Institute of Technology	Kumudha P
361	Tamil Nadu	Government College of Engineering Bargur	Anantha babu
362	Tamil Nadu	Government College of Engineering Bargur	K Manogaran
363	Tamil Nadu	Government College of Engineering Bargur	C M T Karthigeyan
364	Tamil Nadu	Government College of Engineering Bargur	M. Arulkumar
365	Tamil Nadu	Government College of Engineering Bargur	V.Adhimoorthy
366	Tamil Nadu	Government College of Engineering Bargur	K.Asokan
367	Tamil Nadu	Government College of Engineering, Bargur	Ranjith R.
368	Tamil Nadu	Government College of Engineering, Salem	C.Rani
369	Tamil Nadu	Government College of Engineering, Salem	Govindaraju C
370	Tamil Nadu	Government College of Technology, Coimbatore	L. Sumathi
371	Tamil Nadu	PSG College of Technology, Coimbatore, Tamil Nadu	Dr G Sudha Sadasivam
372	Tamil Nadu	Thiagarajar College of Engineering	M. Manikandakumar
373	Tamil Nadu	Thiagarajar College of Engineering	B. Brucelee
374	Tamil Nadu	Thiagarajar College of Engineering, Madurai, Tamil Nadu	Jeyamala Chandrasekaran
375	Tamil Nadu	Thiagarajar College of Engineering, Madurai, Tamil Nadu	T Manikandan
376	Telangana	University College of Engineering, Osmania University, Hyderabad	Pragnavi
377	Telangana	University College of Engineering, Osmania University, Hyderabad	Narsimhulu Sanke
378	UT-Chandigarh	University Institute of Engineering and Technology, Punjab University, Chandigarh	Rohit Kumar
379	UT-Chandigarh	Punjab Engineering College (Deemed to be University)	Amandeep Kaur
380	Uttar Pradesh	BIET Jhansi UP	Dr A K Shukla
381	Uttar Pradesh	Bundelkhand Institute of Engineering & Technology, Jhansi	Dr. Shailendra Pratap Singh
382	Uttar Pradesh	Bundelkhand Institute of Engineering & Technology, Jhansi	Anuj kumar yadav
383	Uttar Pradesh	FET MJP Rohilkhand University, Bareilly	Ashish Kumar Mishra
384	Uttar Pradesh	Harcourt Butler Technical University (Formerly HBTI), Kanpur	Dharmendra Kumar Singh
385	Uttar Pradesh	Harcourt Butler Technical University (Formerly HBTI), Kanpur	Manish Kumar Singh
386	Uttar Pradesh	Harcourt Butler Technical University (Formerly HBTI), Kanpur	Dr shailendra kumar pandey
387	Uttar Pradesh	Harcourt Butler Technical University, Kanpur	Nayanica Srivastava
388	Uttar Pradesh	Harcourt Butler Technical University, Kanpur	Raghwendra Singh
389	Uttar Pradesh	HBTU, Kanpur	Dr- Shashi Kant
390	Uttar Pradesh	IET Bundelkhand University, Jhansi	Deepak Chaurasia
397	Uttar Pradesh	IET Bundelkhand University, Jhansi	RAJ KUMAR SINGH
398	Uttar Pradesh	IET Bundelkhand University, Jhansi	Avaneet Kumar
391	Uttar Pradesh	IET Lucknow	Anand Kumar Singh
396	Uttar Pradesh	IET, Dr B R Ambedkar University, Khandari, Agra	Dheeraj Singh
392	Uttar Pradesh	IET, Dr. B R Ambedkar University, Khandari Agra	Naman Garg
393	Uttar Pradesh	IET, Dr. RML Awadh University Faizabad, Ayodhya	Chandra Shekhar Verma
399	Uttar Pradesh	IET, Dr. RML Awadh University Faizabad, Ayodhya	Awadhesh Kumar Maurya
400	Uttar Pradesh	IET, Dr. RML Awadh University Faizabad, Ayodhya	SANJAY CHAUHAN



# HARCOURT BUTLER TECHNICAL UNIVERSITY

## NASSCOMM TRAINING FOR FUTURE SKILL DEVELOPMENT UNDER TEQIP-III

TOPIC: *INTERNET OF THINGS*

TRAINER: Mrs. Nayanica Srivastava, Assistant Professor (NPIU), ETD, HBTU

### FINAL RESULT

Test pin	Candidate Name	Email ID	Custom Form Details	Test Completion date	Score obtain ed	Maxim um Score	Percentage Obtained
			Date Of Birth				
H661 923	Yash Yuvraj Singh .	190105044@hbt u.ac.in	27-6-2002	21-12-2020	43	100	43
H706 603	Yash Kumar Singh .	170109018@hbt u.ac.in	3-12-1999	21-12-2020	39	100	39
H862 288	Vidit Yadav .	180112029@hbt u.ac.in	08-01-2000	21-12-2020	56	100	56
H134 559	Utkarsh Pal .	180110057@hbt u.ac.in	24-01-2001	21-12-2020	25	100	25
H539 971	Utkarsh Azad .	190103060@hbt u.ac.in	28-12-2001	21-12-2020	53	100	53
H373 386	Upagyya Dixit .	180106047@hbt u.ac.in	23-12-2002	21-12-2020	51	100	51
H485 302	Uddeshya Patel .	180113024@hbt u.ac.in	2-10-2000	21-12-2020	34	100	34
H028 680	Tanishka Chandra .	190106053@hbt u.ac.in	15-7-2000	21-12-2020	46	100	46
H966 657	Suyash Patel .	190101037@hbt u.ac.in	16-02-2001	21-12-2020	42	100	42
H453 326	Sudhanshu Gupta .	190205016@hbt u.ac.in	13-6-1995	21-12-2020	56	100	56
H260 994	SUBHUAM TANGAR .	190106051@hbt u.ac.in	27-03-2001	21-12-2020	54	100	54
H407 998	Subhash Chandra Verma .	170101026@HBT U.AC.IN	10-1-1997	21-12-2020	18	100	18
H067 863	Subhagaya Singh .	190106050@hbt u.ac.in	08-11-1999	21-12-2020	27	100	27
H642 145	srishti gupta .	190205015@hbt u.ac.in	26-12-1994	21-12-2020	52	100	52
H335 831	Shubham Rana .	190110060@hbt u.ac.in	6-9-2000	21-12-2020	56	100	56
H231	Shreya Dwivedi	190111028@hbt	05-10-2000	21-12-2020	37	100	37

*Abhinav Singh*



H502 704	Kartik dixit .	190110036@hbt u.ac.in	18-11-2000	21-12-2020	33	100	33
H927 099	Jyoti .	190105019@HBT U.AC.IN	16-5-1999	21-12-2020	52	100	52
H355 545	Jatin Gupta .	180103019@hbt u.ac.in	27-10-1999	21-12-2020	34	100	34
H470 965	Ishani Singh .	190106017@hbt u.ac.in	08-11-1999	21-12-2020	23	100	23
H322 683	Himanshu Gautam .	180101016@hbt u.ac.in	04-07-2000	21-12-2020	27	100	27
H943 155	Harshit Bhargava .	190205009@hbt u.ac.in	9-3-1997	21-12-2020	52	100	52
H744 736	Harsh Verma .	180102014@hbt u.ac.in	22-09-1999	21-12-2020	14	100	14
H216 475	GAURANG MAHESHWARI .	190112011@hbt u.ac.in	3-2-2000	21-12-2020	54	100	54
H515 332	Divyanshu Patel .	190110025@hbt u.ac.in	14-9-2001	21-12-2020	52	100	52
H982 530	Ayush Pandey .	180103014@hbt u.ac.in	07-12-2000	21-12-2020	35	100	35
H031 787	Aviral Gupta .	180103013@hbt u.ac.in	9-6-2000	21-12-2020	70	100	70
H496 341	Aryan Verma .	190110010@hbt u.ac.in	17-12-2001	21-12-2020	65	100	65
H270 199	Aryan Singh .	190103016@hbt u.ac.in	16-5-2001	21-12-2020	33	100	33
H713 814	Apurva yadav .	170101004@hbt u.ac.in	11-4-1999	21-12-2020	48	100	48
H860 863	Anushka Pandey .	190106009@hbt u.ac.in	14-7-2001	21-12-2020	58	100	58
H343 506	Anurag mishra .	180101009@hbt u.ac.in	25-10-2001	21-12-2020	29	100	29
H444 409	Ankur yadav .	190103011@hbt u.ac.in	15-7-2001	21-12-2020	36	100	36
H810 964	Aman Gupta .	170101002@hbt u.ac.in	25-8-1998	21-12-2020	51	100	51
H654 811	Akash Verma .	190106003@hbt u.ac.in	18-7-2001	21-12-2020	48	100	48
H377 915	Aditya Mishra .	190103006@hbt u.ac.in	06-08-2003	21-12-2020	58	100	58
H316 814	Abhishek sachan .	180112001@hbt u.ac.in	21-03-2001	21-12-2020	52	100	52
H957 072	Abhinandan mishra .	170107001@hbt u.ac.in	17-2-1998	21-12-2020	53	100	53

*Praveen*

*Praveen*

MIDTERM ASSESSMENT RESULT - IoT (Future Skills)

5

stpin	Candidate Name	Email ID	Mobile Number	stom Form Deta	Date Of Birth	Test Comple	Score obta	Maximum	Percentage
179450	Yash Yuvraj Singh	190105044@hbtu.ac.in	9660823027		27-6-2002	12-09-2020	33	100	33
186794	Yash Kumar Singh	170109018@hbtu.ac.in	6387787916		3-12-1999	12-09-2020	38	100	38
179943	Vidit Yadav	180112029@hbtu.ac.in	6394399941		8-1-2000	12-09-2020	56	100	56
107448	Utkarsh Pal	180110057@hbtu.ac.in	7651857146		24-1-2001	12-09-2020	50	100	50
179741	Utkarsh Azad	190103060@hbtu.ac.in	8960019693		28-12-2001	12-09-2020	34	100	34
176161	Upagyya Dixit	180106047@hbtu.ac.in	9935685535		23-12-2002	12-09-2020	46	100	46
156241	Tanishka Chandra	190106053@hbtu.ac.in	8923978437		15-7-2000	12-09-2020	45	100	45
193306	Suyash Patel	190101037@hbtu.ac.in	7523555175		16-2-2001	12-09-2020	50	100	50
145048	Suryansh Tripathi	190101036@hbtu.ac.in	6306721864		9-7-2000	12-09-2020	33	100	33
126050	Sudhanshu Gupta	190205016@hbtu.ac.in	7905821842		13-6-1995	12-09-2020	45	100	45
157423	SUBHUAM TANGAR	190106051@hbtu.ac.in	6397552689		27-3-2001	12-09-2020	32	100	32
140735	Subhash Chandra Verma	170101026@HBTU.AC.IN	7398658912		10-1-1998	12-09-2020	26	100	26
123842	Subhagaya Singh	190106050@hbtu.ac.in	6388311212		8-11-1999	12-09-2020	45	100	45
11337	srishi gupta	190205015@hbtu.ac.in	9140675183		26-6-1994	12-09-2020	59	100	59
169245	shubhi	190105035@hbtu.ac.in	7808030810		29-3-2001	12-09-2020	36	100	36
189667	Shubham Rana	190110060@hbtu.ac.in	6397575958		6-9-2000	12-09-2020	52	100	52
18189	Shreya Dwivedi	190111028@hbtu.ac.in	190111028		10-5-2000	12-09-2020	48	100	48
151721	SHOBHIT SINGH	190103052@hbtu.ac.in	8299562144		3-6-2002	12-09-2020	31	100	31
129415	Sambhav Jain	190110051@hbtu.ac.in	8858008019		6-9-2001	12-09-2020	33	100	33
196820	Samana Butool	190105029@hbtu.ac.in	6388219576		11-7-2000	12-09-2020	35	100	35
142128	Richa Singh	180106029@hbtu.ac.in	8318538099		9-7-2000	12-09-2020	60	100	60
165828	RAJU SAROJ	180101024@hbtu.ac.in	9695559128		21-7-1999	12-09-2020	32	100	32
197595	Rajit Raj	180101023@hbtu.ac.in	6387010611		26-10-1998	12-09-2020	41	100	41
103471	Rajarshi Tiwari	190106033@hbtu.ac.in	8840468477		18-11-2001	12-09-2020	34	100	34
106824	Rahul Maurya	180110049@hbtu.ac.in	8052967988		7-5-2000	12-09-2020	28	100	28
109023	Radhika agarwal	180107021@hbtu.ac.in	9621486461		26-3-2001	12-09-2020	23	100	23
31069	Pranav mani tripathi	190106032@hbtu.ac.in	7733849409		13-7-2001	12-09-2020	49	100	49
138881	Pranav Awasthi	170112016@hbtu.ac.in	7651924184		16-11-1999	12-09-2020	39	100	39
19518	Prakhar Sharma	190101026@hbtu.ac.in	9793154986		23-11-2001	12-09-2020	52	100	52
100573	Piyush rajput	piyushrajput0554@gmail.com	6395250473		30-3-2002	12-09-2020	27	100	27
182964	Piyush Kumar Chaudhari	190106029@hbtu.ac.in	6394024817		15-2-2002	12-09-2020	33	100	33
183804	Pankaj kumar	180109008@hbtu.ac.in	9140778726		28-6-1999	12-09-2020	33	100	33
137894	Nikita Mishra	190112022@hbtu.ac.in	8303290354		20-7-2001	12-09-2020	34	100	34
116049	Muskan Dubey	180106021@hbtu.ac.in	9129176677		13-1-2000	12-09-2020	24	100	24
182993	Monali Chakraborty	190106027@hbtu.ac.in	7459839290		11-6-2001	12-09-2020	52	100	52
172475	Mayank Khanna	190103035@hbtu.ac.in	08299023118		30-6-2000	12-09-2020	45	100	45
175181	Manya Pandey	180112015@hbtu.ac.in	6393227629		17-8-2000	12-09-2020	35	100	35
142850	Manjari Srivastava	190112020@hbtu.ac.in	8957344240		24-6-1998	12-09-2020	52	100	52
130978	Mahaveer Jain	190102015@hbtu.ac.in	6392507439		6-4-2001	12-09-2020	38	100	38
175588	Kritika Saxena	190103032@hbtu.ac.in	7088188739		17-11-2000	12-09-2020	34	100	34
198765	Krishna Katiyar	170107014@hbtu.ac.in	8840014634		25-4-2000	12-09-2020	51	100	51
108194	Km. Sneha	180110036@hbtu.ac.in	8439922790		28-4-2001	12-09-2020	23	100	23
194619	Kartik dixit	190110036@hbtu.ac.in	8756514405		18-11-1999	12-09-2020	39	100	39
163270	Jyoti	190105019@HBTU.AC.IN	9369622763		16-5-1999	12-09-2020	66	100	66
33293	Jatin Gupta	180103019@hbtu.ac.in	8090938500		27-10-1999	12-09-2020	37	100	37
157760	Ishani Singh	190106017@hbtu.ac.in	7905109255		8-11-1999	12-09-2020	51	100	51
173546	Himanshu Gautam	180101016@hbtu.ac.in	9305650788		4-7-2000	12-09-2020	40	100	40
121579	Harshvardhan gupta	170101008@hbtu.ac.in	8090465846		22-2-1999	12-09-2020	38	100	38
199888	Harshit Gupta	180101015@hbtu.ac.in	7752943238		27-8-2000	12-09-2020	44	100	44
123196	Harshit Bhargava	190205009@hbtu.ac.in	7007949023		9-3-1997	12-09-2020	41	100	41
194171	Harsh Verma	180102014@hbtu.ac.in	6386182610		22-9-1999	12-09-2020	29	100	29
137396	GAURANG MAHESHWARI	190112011@hbtu.ac.in	9140519889		3-2-2000	12-09-2020	60	100	60
177648	Ayush Pandey	180103014@hbtu.ac.in	6388872090		7-12-2000	12-09-2020	33	100	33
139464	Aviral Gupta	180103013@hbtu.ac.in	9454748424		9-6-2000	12-09-2020	46	100	46
153813	Aryan Verma	190110010@hbtu.ac.in	9519441112		17-12-2001	12-09-2020	36	100	36
140410	Aryan Singh	190103016@hbtu.ac.in	07458946963		16-5-2001	12-09-2020	41	100	41
182695	Aryan Pandey	190110009@hbtu.ac.in	09336043494		22-8-2001	12-09-2020	46	100	46
193473	Apurva yadav	170101004@hbtu.ac.in	7068787809		11-4-1999	12-09-2020	29	100	29
151939	Anushka Pandey	190106009@hbtu.ac.in	6396355078		14-7-2001	12-09-2020	41	100	41
163061	Anurag mishra	180101009@hbtu.ac.in	9264934677		25-10-2001	12-09-2020	17	100	17
186853	Ankur yadav	190103011@hbtu.ac.in	8887889668		15-7-2001	12-09-2020	53	100	53
181487	Ankish Verma	180101008@hbtu.ac.in	9140867058		21-12-2000	12-09-2020	30	100	30
196463	Aman Kumar	180107007@hbtu.ac.in	8299225691		28-11-1999	12-09-2020	45	100	45
128167	Aman Gupta	170101002@hbtu.ac.in	8052956062		25-8-1998	12-09-2020	32	100	32
127788	Akash Verma	190106003@hbtu.ac.in	7080366899		18-7-2001	12-09-2020	27	100	27
155734	Aditya Mishra	190103006@hbtu.ac.in	6389005501		6-8-2003	12-09-2020	55	100	55
170776	Abhishek sachan	180112001@hbtu.ac.in	6306634504		21-3-2001	12-09-2020	45	100	45
190579	Abhinandan mishra	170107001@hbtu.ac.in	8756043539		17-2-1998	12-09-2020	35	100	35

And

Amant

1/5





15

अनुभाग/विषय: टेक्नियम - II

पत्रावली सं०

क्र.सं० / वि० सं० / प्र.सं० वि० टेक्नियम - II / कोकास्टीव टेक्नियम - II

खि० नि० भंडोदय

कृपया सेलरग पुस्तक एवं आवलीक करत  
चाहे 'Coordinator योग, Activities द्वारा 15-18  
से 20-1-18 Induction Program कराये गये जिसके बिल  
सेलरग व भुगतान हेतु ये बिल वि० गये हैं उनका बिलर  
निम्न लिखित है।

- |  |                         |
|--|-------------------------|
| 1. m/s. Maarten House                                      | Rs = 76888 = 00         |
| 2. m/s. Jitendra Singh                                     | Rs = 25960 = 00         |
| 3. Mr. Satya Prakash Sharma<br>Honorarium @ 2000 x 6 days  | Rs = 12000 = 00         |
| 4. Mr. Rakesh Ranjan Bhanmar<br>Honorarium @ 2000 x 6 days | Rs = 12000 = 00         |
| 5. Ms. Shobha Kulshreshtha<br>Honorarium @ 2000 x 6 days   | Rs = 12000 = 00         |
|  | <u>Rs = 138848 = 00</u> |

अतः मा० कुलपति भंडोदय द्वारा पूर्व में दिये गये रु० 1.00 लाख  
के अनुमोदन के अंतर्गत Coordinator, योग Activities द्वारा रु०  
38848 = 00 का अतिरिक्त व्यय (कुल धराशिरा रु० 138848 = 00)  
अथ पत्रावली गमार्थ सहायि वी पत्रावली में रु० 38848 = 00 का  
अतिरिक्त व्यय जो जोड़ते हुए कुल रु० 138848 = 00 (एक लाख  
38 हजार 480) का इतिहास एका (क्र० 6) का इतिहास मात्र) के व्यय  
का भुगतान हेतु संबंधित व्यय के अनुमोदन क्र० सं 1/1-2-1  
Improving student Learning के अंतर्गत से करत की वि० रखा  
पुनः अतिरिक्त अनुमोदन उपाय करत चाहे।

Passed for payment of Rs = 138848 = 00  
(one lac thirty eight thousand eight hundred forty eight only)

मा० कुलपति

26-3-18  
रज्जु लाल  
प्रधान सहायक (अर्थी)

26-3-18  
(एस०के०एम०)  
आंतरिक सम्पर्कक

26/03/18  
F.R.A.O.

24/3/18

26-3-18  
Coordinator TEOR III

PAID & CANCEL



Mentor Induction Programme/ Co-ordinator TEQIP-III

Finance Controller/Registrar/Hon'ble Vice Chancellor

Please find enclosed here with the details of expenditure incurred during Induction Programme which was organised during 15 January to 20 January 2018. The details of total expenditure are given below:-

Sr. No.	Details of Cash Memo/Bill	Particular	Amount
1.	Maa Tent House Bill No. 14 Dt. 20.01.18	Tent mattress Items etc.	76888.00
2.	Jitendra Singh Bill No. 04, Dt. 31.01.18	Sound and mike System.	25960.00
3.	Honorarium	3persons @ 2000/-each for 6 days	36000.00
<b>TOTAL</b>			<b>138848.00</b>

So in this connection it is requested to you to kindly make a cheque of Rs. 25960/- in favour of Jitendra Singh, Rs.76888/- in favour of Maa Tent House, Rs. 12,000/- in favour of Mr. Satya Prakash Sharma, Rs. 12000/- in favour of Mr. Rakesh Ranjan Bhramar, Rs. 12000/- in favour of Shobha Kulshreshtha. Submitted for kind pass, adjustment & reimbursement to the above mentioned persons/Parties.

*for n/a*

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-206002

*Coordinator Yoga Activity  
Pl. justify the excess payment -  
R.S.K.*

13/02/18  
Dr. Archana Singh  
(Coordinator, Yoga Activities)

Coordinator TEQIP-III, H.B.T.U., Kanpur

The approved amount for Yoga Activities was Rs 1,00,000/- but the total expenditure in this activity was Rs 1,38848=0. The amount was increased because of excessive cold and fog during that duration. Additional tent, mattresses etc. had to be arranged at all the venues in the best interest of students.



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय, कानपुर, 208002

# टिप्पणी एवं आदेश

(5)

पृष्ठ सं० .....  
(88)

अनुभाग / विभाग .....

पत्रावली सं० .....

क्र. सं० । वि० ले० एवं नो० का वि०

दृष्टान्त कार्य और संलग्न Contingency Bill का वा. आवेदन करके वा. प्राप्त करें। का. कुलपति महोदय के दिनांक 2-8-19 के अनुमोदन के अंतर्गत का. योग / Exercise हेतु का. 100000=00 (एक लाख मात्र) का अनुमोदन प्राप्त किया गया था जिसके संदर्भ का. सं० 11524=00 (एक लाख ग्यारह हजार पांच सौ चौविंश मात्र) का. वा. हुआ है।

Induction Programme (Yoga / Exercise) के का. 11524=00 अतिरिक्त वा. की कार्यवाही (स्वीकृत केसाब का. सं० 1-1-2-1 Improve Student Learning के तदनुसार कुलपति महोदय का. सं० 11524=00 (एक लाख ग्यारह हजार पांच सौ चौविंश मात्र) के अनुमोदन की निवृत्ति एवं प्रशासकीय अनुमोदन प्राप्त करके वा. साफ टी. आर. आर. पर भी दस्तावेज (कार्यवाही)।

15-2-2020  
(रजत लाल)  
प्र. सं. संख्या

15-2-20  
(एस.के. मिश्रा)  
आंतरिक सम्परीक्षक

I.A  
वार्ड  
Ain  
17-2-20

काली की

PAID & CANCELLED

Passed for Payment of Rs = 111524=00  
(one lac eleven thousand five hundred Twenty four only)

~~17-2-20~~

~~वि० ले० सं०~~

Coordinators  
TEQIP-III

लैंगर चार्ज का. सं० 345  
कुलपति का. सं० 11524=00

Hon'ble Vice Chancellor

17-2-20  
(एस.के. मिश्रा)  
आंतरिक सम्परीक्षक

Ain  
17-2-20

P. D. D. S.  
18/02/2020

Nodal Officer Finance TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

20 FEB 2020

कुलपति  
हरकोर्ट बटलर प्राविधिक विश्वविद्यालय



FC

for n.a.pl.

Law

14/01/2020  
DSW

87

आमंत्रित किये जाने वाले बिना मस. नं. 111

कृपया पूर्व प्रेषित हुए बिना की गयी विद्युत 2 अं -  
वर्षावार अर्गुनी ही कृपया मास expert (Yoga expert ही Yoga Assst)  
को बिना मास विशेष करी आ कर करे।

21-1-2020  
(रुबान चौधरी)  
प्रमुख लेखा

23-1-20

(एस.के.एम.एस.)  
आंतरिक समीक्षक

Nodal Officer Finance TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

DSW

23-01-2020

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

Ref. No. 542/DSW/2020  
Date. 23.01.2020

Commenary, Yoga Sub-Council

for n.a.pl

Law

29/01/2020

(Prof. Ram Naresh)  
Dean Students Welfare  
Harcourt Butler Technical University  
KANPUR-208002

DSW/FC

Regarding the point no.2 of page no. 2, please find enclosed the bio data of Yoga assistants also alongwith Yoga experts. Although the bio data of Yoga assistants are never demanded in the previous Induction Program for 1st year students of 2018-2019 as they assist with Yoga experts. Kindly make payments to the concerned persons for the Yoga session during Induction Program at the earliest.

(Dr. A. Singh)

13/2/20

14/2/20

Law

(Prof. Ram Naresh)  
Dean Students Welfare  
Harcourt Butler Technical University  
KANPUR-208002

Prof. Naresh  
at 3:15 PM  
24/1/20

Ref. No. 570/DSW/20  
Date: 13-02-2020



Prof. Sunil Kumar, C.F.

(3)

86

This letter is in reference to the extra expenditure incurred during Induction Programme for Ist year students which was held during 30/07/2019 to 19/08/2019.

Notice was arranged by "Maa Tent House" on the verbal instruction by you for sitting arrangement of all boys of two hostels in the ground of the LV-new, (Boys Hostel). The bill of Rs 29,944/- was added of "Maa Tent House" for daru so the total expenditure made of Rs 117,724/- which exceeded by Rs 17,724/- from my Yoga proposal of Rs 1,00,000/-.

Kindly allow the payment for Daru.

DSW/FC.

The revised approved budget was Rs. 10,38,000 = 00. As per the original budget submitted vide letter no. <sup>120</sup> ~~120~~ DSW/2019 dated ~~12~~<sup>19</sup>.07.2019 the different heads of budget were interchangeable. Keeping this in mind and need to do yoga on east campus ground mattresses were arranged. Hence, you are requested to approve the expenditure incurred on yoga mattresses. The total expenditure on the whole program was only Rs. 6,60,021 = 00 which was within the approved budget.

Sunil Kumar  
13.01.2020

(Sunil Kumar)  
Mentor, Induction Programme  
2019

DSW/FC

Regarding the queries as per page no (2), the desired information are as follows:  
1. Prof. Sunil Kumar who was DSW and Mentor of Induction Programme, 2019 has approved the exceeded expenditure of Yoga activity of I.P.  
2. The certificates of (3) Yoga experts are enclosed.

13/01/2020  
(Dr. Arce Rama Singh)

—PTO—

Coordinator, TEQIP-III

850

छात्र - छात्राओं को विशिष्ट उपस्थिति सूची संलग्न है।  
अनुमोदन उपरान्त आदिष्ट छात्र क्रिया कलाप द्वारा  
दिये गये मौखिक निर्देश के क्रम में छात्रों के  
बैठने की व्यवस्था सम्बन्धित छात्रावासों में अलग  
कराई गई।  
(Yoga Conference)

Nodal Officer Finance

12-12-2019

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

Final

(FAO)  
13/12/19

Recd on  
19-12-19

आंकड़ों / आगमन वि. योगा सम्मेलन

छात्रों के लिए एक पत्र को देव की (कार्यवाही) आशुबद्ध

1. मातृ कुलपति द्वारा दिशे गये आनुमोदन के अन्तर्गत रु. 1,00,000/- (एक लाख) व्यय की व्यवस्था प्रदान की गयी है। यह आदिष्ट छात्रों द्वारा उपरोक्त स्थानों पर की जायेगी।
2. सम्पूर्ण योगा रिपोर्ट का बिन्दु-से-लेन गयी हो संलग्न करने का प्रयत्न करें। इसके अतिरिक्त कार्यवाही की जायेगी।

RD  
19-12-19  
(संज्ञक लाल)  
जानक लाल

RD  
19-12-19  
(एसकेएमशा)  
आंतरिक सम्पर्क

स. दे. पा.  
पताबली आपके विचारार्थ प्रेषित  
27-12-19  
Nodal Officer Finance TEQIP-III  
Harcourt Butler Technical University

DSW

Dr. Vikas Yadav, Dy. Secy USAC

21-12-2019  
Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

Pt. arrange to attach the desired information in consultation with concerned activity coordinator.  
21/12/2019  
DSW

100

Journal Voucher

No. : ~~519~~

Dated : 17-Feb-2020

Bill No - 252 / TEQIP-III / HBTU / 2019-20

Particulars	Debit	Credit
Mr. Brahm Prakash, Yoga Expert	Dr 14,000.00	
Mr. Vishwa Nath Nigam, Yoga Expert	Dr 14,000.00	
Shivangi Dwivedi, Yoga Expert	Dr 14,000.00	
Amrish Srivastava	Dr 7,000.00	
Mrs. Mamta, Yoga Asstt	Dr 7,000.00	
Ajit Kumar Pandiya, Yoga Asstt.	Dr 7,000.00	
Jitendra Singh	Dr 24,360.00	
IT TDS 2% Transfer to TEQIP-III A/c	Dr 420.00	
Maa Tent House	Dr 23,744.00	
To NPIU BANK - 370200210031759		1,11,524.00

On Account of :

being amount paid againsts bill no.252/2019-20

₹ 1,11,524.00      ₹ 1,11,524.00

Nodal Officer Finance TEQIP-III  
 Harcourt Butler Technical University  
 Kanpur-208002

*(Handwritten Signature)*



2017 - 2018  
HARCOURT BUTLER TECHNICAL UNIVERSITY  
KANPUR - 208 002

A/C. NO. TEQIP-III  
Bill No. 25/TEQIP-III/17-18

S.No.	Sub. Vrs. No.	Particulars	Rs.	Amount Rs.
1		<u>Paid to Dr. Rachna Asthana</u> New Rama Tent House B.No. 303 Dt 25.9.17, Rs. 3900, Mahesh light House B.NO. 463 Dt. 26.9.17 Rs. 6200, & Balaji Enterprises B.No. 24/18.10.17 Rs. 6300	16400	16400
2		M/s. Saluja Kiraya Bhandar B.N. 17/25-9-2017, Bill Amount	30500	
		CGST 9%	2745	
		SGST 9%	2745	
		<b>Total</b>	<b>35990</b>	
		(-) TDS @ 2%	610	610
		<b>Pay to Party with GST</b>		<b>35380 00</b>
3		M/s. Pustak Bhawan B.N. R000104/26-9-2017, Bill Amount	28440	
		<b>Pay to Party</b>		<b>28440 00</b>
4		Bama Enterprises, B.N. 28,29, Dt. 29.9.2017 Bill Amount	39900	
		CGST 9%	3591	
		SGST 9%	3591	
		<b>Total</b>	<b>47082</b>	
		(-) TDS @ 2%	798	798
		<b>Pay to party with GST</b>		<b>46284 00</b>
5		Bama Enterprises B.N. 30 Dt.29.9.2017 Bill Amount	1500	
		CGST 14%	210	
		SGST 14%	210	
		<b>Total</b>	<b>1920</b>	
		TDS @ 2%	30	30 00
		<b>Pay to party with GST</b>		<b>1890 00</b>
6		M/s. Sidharth General Store B.No. 332/29.9.2017 Bill Amount	7110	
		<b>Pay to party</b>		<b>7110 00</b>
7		M/s. Arvind Kumar Gupta, B.No. 026/29.9.2017 Bill Amount	19970	
		<b>Pay to party</b>		<b>19970 00</b>
8		M/s. Vijay Gupta Caterer Bill Amount	186000	
		CGST 9%	16740	
		SGST 9%	16740	
		<b>Total</b>	<b>219480</b>	
		TDS @ 2%	3720	3720 00
		<b>Pay to party with GST</b>		<b>215760 00</b>
8		M/s. Balaji Enterprises B.No. 20,23 Dt. 17.10.17 & 18.10.17	20000	
		<b>Bill</b>		
		CGST 2.5%	500	
		SGST 2.5%	500	
		<b>Total</b>	<b>21000</b>	
		<b>Pay to party with GST</b>		<b>21000 00</b>
		*Total TDS (610+798+30+3720)	5158	
		<b>Party Payment</b>	<b>392234</b>	
		<b>Total</b>		<b>₹ 3,97,392 00</b>

\* TDS Rs. 5158.00 Transfer From TEQIP-III To University A/c No. 1460322211

Passed for payment by for Rs. Three Lacs ninty seven thousand three hundred ninty two only

Internal Auditor

Fin. & Accounts Officer

Finance Controller

**D & CANCELLED**

कृपया वापस

Shri Rajendra Lal

(20)

9/F.R.A.O.  
29/09/17

श्री. एम. विठ्ठल | श्री. विठ्ठल | श्री. भा. कुलपति महोदय

व्यय को कांतिनेटर टेकनियम-III के प्रस्ताव का आलोचना करण चाहे। प्रस्तावक द्वारा दिनांक 22-24 सितम्बर 2017 तक एक वर्कशॉप आयोजित करने हेतु रु० 6310000=0 का व्यय प्रस्ताव प्रस्तुत किया है। लेखनिष्पत्ती महोदयों से हुई वार्तानुसार व्यय सं० 6 में रु० 1.00 लाख के अन्तर्गत रु० 800000=0 के व्यय सं० 11 में रु० 500000=0 के अन्तर्गत पर रु० 600000=0 तथा व्यय सं० 11 को दूरते हेतु कुल रु० 5,41,000=0 (पाँच लाख इक्कीस हजार मात्र) पर विश्वविद्यालय मद से निम्नानुसार व्यय हेतु वितीत एवं प्रशासनिक अनुमोदन उद्योग करण चाहे। को कांतिनेटर टेकनियम-III के अन्तर्गत व्यय कि इन्हें इतराशि भविष्य में TEOP-III में आयोजित कर की जायेगी अनुमोदनार्थ प्रेषित।

Head  
(21-9-2017)  
(Head Asstt)

32  
21-9-17  
Rajendra

21/9/17

Concomitant for TEOP-III

Finance Controller  
विश्वविद्यालय  
हरकोट बटलर प्राथमिक विश्वविद्यालय  
कानपुर-02

10-10-17  
(IA)

11-10-17  
TEOP-III  
1.1.2.1 के अन्तर्गत  
व्यय अनुमोदन के लिये अर्पित  
करणीय हेतु प्रेषित।

77 SEP 2017  
कुलपति  
हरकोट बटलर प्राथमिक विश्वविद्यालय  
कानपुर-2

6-11-17  
(F.A.O.)  
9/11

**Induction Programme, 29 July – 18 Aug., 2018**  
**Harcourt Butler Technical University, Kanpur- 208002**  
Schedule of Activity

Time Day	06:30 AM	7:30 – 08:30	09:00 – 09:30 AM	10:00 – 12:00 AM	12:00 – 01:30 PM (Venue: EC-1 & EC-2)	01:30 – 03:00 PM	03:00 – 04:30 (Venue: Auditorium)	04:30 – 06:00 PM	06:00 – 08:30 PM	08:30 – 09:30 PM (For Hosteller)	
	(For Hosteller)			BREAKFAST	HUMAN VALUES	LUNCH	REST & DINNER				
Monday	Wakeup Call	Yoga' Exercise	Human Values					Creative Arts (Even Groups)/English (Odd Groups)	Creative Arts (Odd Groups)/English (Even Groups)	Sports	Informal Interaction in Hostel*
Tuesday	Wakeup Call	Yoga' Exercise	Human Values					Creative Arts (Even Groups)/English (Odd Groups)	Creative Arts (Odd Groups)/English (Even Groups)	Sports	Informal Interaction in Hostel*
Wednesday	Wakeup Call	Yoga' Exercise	Human Values					Creative Arts (Even Groups)/English (Odd Groups)	Creative Arts (Odd Groups)/English (Even Groups)	Sports	Informal Interaction in Hostel*
Thursday	Wakeup Call	Yoga' Exercise	Human Values					Creative Arts (Even Groups)/English (Odd Groups)	Creative Arts (Odd Groups)/English (Even Groups)	Sports	Informal Interaction in Hostel*
Friday	Wakeup Call	Yoga' Exercise	Human Values					Motivational Talk (Even Groups)	Motivational Talk (Odd Groups)	Sports	Informal Interaction in Hostel*
Saturday	Wakeup Call	Yoga' Exercise	Human Values					Motivational Talk (Even Groups)	Motivational Talk (Odd Groups)	Sports	Informal Interaction in Hostel*

*Lau*  
*(Prof. Ram Singh)*  
*DSW*



HARCOURT BUTLER TECHNICAL UNIVERSITY  
KANPUR - 208 002  
CONTINGENT BILL

215

101

Sl. No.	Component Code	Particulars	Bill No. 101/TEQIP-III/HBTU/2018-19				PARTY PAYMENT
			BILL AMOUNT	GST	BILL AMOUNT with GST	I. TAX /TDS	
							Rs.
1	1.1.2.1 Improve student learning	Mr. Abhay Jeet Jain, Expert, TA/DA & Hon.	19440	0	19440	0	19440
2		Mr. Amar Jeet Jain, Expert, TA/DA & Hon.	19440	0	19440	0	19440
3		Mr. Jai Kumar, Expert, TA/DA & Hon.	19440	0	19440	0	19440
4		Mr. Anil Kumar Singh, Expert, TA/DA & Hon.	15400	0	15400	0	15400
5		M/s. Jitendra Singh, Kanpur for service of sound etc.	20000	3600	23600	400	
6		M/s. Jitendra Singh, Kanpur (old TDS deduction 2% against Bhugtan aadesh no. 18 & 36) 2018-19	0	0	0	101	23099
7		M/s. Bama Enterprises, Kanpur for stationary etc.	6998	898	7896	140	
8		M/s. Bama Enterprises, Kanpur for lunch etc.	5142	258	5400	103	13053
9		TDS 2% Tranfer from TEQIP-III A/C. 3569376237 (M/s. Bama Enterprises Rs. 243.00, M/s. Jitendra Singh, 501.00, Total Rs. 744.00					744
<b>Total</b>			<b>105860</b>	<b>4756</b>	<b>0</b>	<b>744</b>	<b>110616</b>

(Passed for payment of Rs. One Lac ten thousand six hundred sixteen only)

Internal Auditor

Account Officer

Finance Controller

23-219









INDUCTION PROGRAMME 2018

DATE:- 02/8/2018

NAME OF MENTOR:- RAGHAV DWIVEDI

GROUP NO.5

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CSE	32700097	SAMIR YADAV	<u>Samir</u>	<u>Samir</u>	<u>Samir</u>	<u>Samir</u>
CSE	32802346	SHASHWAT AGARWAL	<u>Shashwat</u>	<u>Shashwat</u>	<u>Shashwat</u>	<u>Shashwat</u>
CSE	14001071	SHIV KUMAR	<u>Shiv Kumar</u>	<u>Shiv Kumar</u>	<u>Shiv Kumar</u>	<u>Shiv Kumar</u>
CSE	28902861	SHIVAM KUMAR	<u>Shivam</u>	<u>Shivam</u>	<u>Shivam</u>	<u>Shivam</u>
CSE	73000545	SHIVAM NEHRA				
CSE	14004327	SHIVANGI DUBEY	<u>Shivangi</u>	<u>Shivangi</u>	<u>Shivangi</u>	<u>Shivangi</u>
CSE	32004064	STUTI SAINI	<u>Stuti</u>	<u>Stuti</u>	<u>Stuti</u>	<u>Stuti</u>
CSE	33403872	SURYANSH RAGHUVANSHI	<u>Suryansh</u>	<u>Suryansh</u>	<u>Suryansh</u>	<u>Suryansh</u>
CSE	72200102	UTKARSH TIWARI	<u>Utkarsh</u>	<u>Utkarsh</u>	<u>Utkarsh</u>	<u>Utkarsh</u>
CSE	32805018	VISHAL ANAND	<u>Vishal</u>	<u>Vishal</u>	<u>Vishal</u>	<u>Vishal</u>
CSE	32802877	VIVEK VERMA	<u>Vivek Verma</u>	<u>Vivek Verma</u>	<u>Vivek Verma</u>	<u>Vivek Verma</u>
CSE	71800342	YAMAN VARSHNEY	<u>Yaman</u>	<u>Yaman</u>	<u>Yaman</u>	<u>Yaman</u>
CSE (FW)	32809302	AMAN SINGH	<u>Aman Singh</u>	<u>Aman Singh</u>	<u>Aman Singh</u>	<u>Aman Singh</u>
CSE (FW)	33403152	ROHIT PRATAP SINGH				
EE	32703343	AKASH DEEP YADAV				
EE	17821492	ALKA RAO	<u>Alka</u>	<u>Alka</u>	<u>Alka</u>	<u>Alka</u>
EE	32803235	ANIKET VERMA	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
EE	33700386	ANIL KUMAR				
EE	32704151	AVANTIKA SINGH PARIHAR	<u>Avantika</u>	<u>Avantika</u>	<u>Avantika</u>	<u>Avantika</u>
EE	32703898	ISHU ANAND	<u>ISHU</u>	<u>ISHU</u>	<u>ISHU</u>	<u>ISHU</u>

26

CSE

Raghu Dwivedi

Mohit

Mohit

Mohit

Raghu Dwivedi  
21/ Aug / 18

INDUCTION PROGRAMME 2018

NAME OF MENTOR:- RAGHAV DWIVEDI

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	GROUP NO.5 CREATIVE ARTS/ENGLISH	DATE:- 3/8/2018 SPORTS
CSE	32700097	SAMIR YADAV	Samir	Samir	Samir	Samir
CSE	32802346	SHASHWAT AGARWAL	Shashwat	Shashwat	Shashwat	Shashwat
CSE	14001071	SHIV KUMAR	Shiv Kumar	Shiv Kumar	Shiv Kumar	Shiv Kumar
CSE	28902861	SHIVAM KUMAR	Shivam Kumar	Shivam Kumar	Shivam Kumar	Shivam Kumar
CSE	73000545	SHIVAM NEHRA	Shivam Nehra	Shivam Nehra	Shivam Nehra	Shivam Nehra
CSE	14004327	SHIVANGI DUBEY	Shivangi	Shivangi	Shivangi	Shivangi
CSE	32004064	STUTI SAINI	Stuti	Stuti	Stuti	Stuti
CSE	33403872	SURYANSH RAGHUVANSHI	Suryansh	Suryansh	Suryansh	Suryansh
CSE	72200102	UTKARSH TIWARI	Utkarsh	Utkarsh	Utkarsh	Utkarsh
CSE	32805018	VISHAL ANAND	Vishal	Vishal	Vishal	Vishal
CSE	32802877	VIVEK VERMA	Vivek Verma	Vivek Verma	Vivek Verma	Vivek Verma
CSE	71800342	YAMAN VARSHNEY	Yaman	Yaman	Yaman	Yaman
CSE (FW)	32809302	AMAN SINGH	Aman Singh	Aman Singh	Aman Singh	Aman Singh
CSE (FW)	33403152	ROHIT PRATAP SINGH	Rohit Pratap Singh	Rohit Pratap Singh	Rohit Pratap Singh	Rohit Pratap Singh
EE	32703343	AKASH DEEP YADAV	Akash	Akash	Akash	Akash
EE	17821492	ALKA RAO	Alka	Alka	Alka	Alka
EE	32803235	ANIKET VERMA	Aniket Verma	Aniket Verma	Aniket Verma	Aniket Verma
EE	33700386	ANIL KUMAR	Anil Kumar	Anil Kumar	Anil Kumar	Anil Kumar
EE	32704151	AVANTIKA SINGH PARIHAR	Avantika	Avantika	Avantika	Avantika
EE	32703898	ISHU ANAND	ISHU	ISHU	ISHU	ISHU

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Raghu Dwivedi  
21/Aug/18

INDUCTION PROGRAMME 2018

GROUP NO.5

DATE:- 4/8/2018

NAME OF MENTOR:- RAGHAV DWIVEDI

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CSE	32700097	SAMIR YADAV	Samir	Samir	Samir	Samir
CSE	32802346	SHASHWAT AGARWAL	Shashwat	Shashwat	Shashwat	Shashwat
CSE	14001071	SHIV KUMAR	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>
CSE	28902861	SHIVAM KUMAR	SP Shrivastava	SP Shrivastava	SP Shrivastava	SP Shrivastava
CSE	73000545	SHIVAM NEHRA				
CSE	14004327	SHIVANGI DUBEY	Shivi	Shivi	Shivi	Shivi
CSE	32004064	STUTI SAINI	Stuti	Stuti	Stuti	Stuti
CSE	33403872	SURYANSH RAGHUVANSHI	Suryansh			
CSE	72200102	UTKARSH TIWARI	Utkarsh	Utkarsh	Utkarsh	Utkarsh
CSE	32805018	VISHAL ANAND	Vishal	Vishal	Vishal	Vishal
CSE	32802877	VIVEK VERMA	Vivek Verma	Vivek Verma	Vivek Verma	Vivek Verma
CSE	71800342	YAMAN VARSHNEY	Yaman	Yaman	Yaman	Yaman
CSE (FW)	32809302	AMAN SINGH	Aman Singh	Aman Singh	Aman Singh	Aman Singh
CSE (FW)	33403152	ROHIT PRATAP SINGH				
EE	32703343	AKASH DEEP YADAV				
EE	17821492	ALKA RAO	Alka	Alka	Alka	Alka
EE	32803235	ANIKET VERMA	Aniket Verma	Aniket Verma	Aniket Verma	Aniket Verma
EE	33700386	ANIL KUMAR	Anil Kumar	Anil Kumar	Anil Kumar	Anil Kumar
EE	32704151	AVANTIKA SINGH PARIHAR	ASP	ASP	ASP	ASP
EE	32703898	ISHU ANAND	ISHU	ISHU	ISHU	ISHU

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INDUCTION PROGRAMME 2018

NAME OF MENTOR:- RAGHAV DWIVEDI

GROUP NO.5

DATE:- 6/8/2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CSE	32700097	SAMIR YADAV	Samir	Samir	Samir	Samir
CSE	32802346	SHASHWAT AGARWAL	Shashwat	Shashwat	Shashwat	Shashwat
CSE	14001071	SHIV KUMAR	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>	<del>Shiv Kumar</del>
CSE	28902861	SHIVAM KUMAR	Shivam	Shivam	Shivam	Shivam
CSE	73000545	SHIVAM NEHRA				
CSE	14004327	SHIVANGI DUBEY	Shivangi	Shivangi	Shivangi	Shivangi
CSE	32004054	STUTI SAINI	Stuti	Stuti	Stuti	Stuti
CSE	33403672	SURYANSH RAGHUVANSHI				
CSE	72200102	UTKARSH TIWARI	Utkarsh	Utkarsh	Utkarsh	Utkarsh
CSE	32805018	VISHAL ANAND	Vishal	Vishal	Vishal	Vishal
CSE	32802677	VIVEK VERMA	Vivek Verma	Vivek Verma	Vivek Verma	Vivek Verma
CSE	71800342	YAMAN VARSHNEY	Yaman	Yaman	Yaman	Yaman
CSE (FW)	32809302	AMAN SINGH	Aman Singh	Aman Singh	Aman Singh	Aman Singh
CSE (FW)	33403152	ROHIT PRATAP SINGH				
EE	32703343	AKASH DEEP YADAV				
EE	17821492	ALKA RAO	Alka	Alka	Alka	Alka
EE	32803235	ANIKET VERMA	Aniket Verma	Aniket Verma	Aniket Verma	Aniket Verma
EE	33700386	ANIL KUMAR	Anil Kumar	Anil Kumar	Anil Kumar	Anil Kumar
EE	32704151	AVANTIKA SINGH PARIHAR	Avantika	Avantika	Avantika	Avantika
EE	32703898	ISHU ANAND	ISHU	ISHU	ISHU	ISHU

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21/8/18

INDUCTION PROGRAMME 2018

GROUP NO.5

DATE:- 7/8/2018

NAME OF MENTOR:- RAGHAV DWIVEDI

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH	<u>Apoorv</u>	<u>Apoorv</u>	<u>Apoorv</u>	<u>Apoorv</u>
CE	32304099	BALWANT KUMAR YADAV	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>
CE	32803638	RHYTHM DUBEY	<u>Rhythm</u>	<u>Rhythm</u>	<u>Rhythm</u>	<u>Rhythm</u>
CE	72701883	ABHINAV GUPTA	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>
CE	71800351	JIGYASA SHARMA	<u>Ji</u>	<u>Ji</u>	<u>Ji</u>	<u>Ji</u>
CE	33414469	SANDEEP KESHARI	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>
CE	32708805	HIMANSHU SINGH	<u>Himanshu</u>	<u>Himanshu</u>	<u>Himanshu</u>	<u>Himanshu</u>
CE (FW)	32710752	AKANKSHA VERMA	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>
CSE	31902601	AAKRITI KAIHWAS	<u>Akriti</u>	<u>Akriti</u>	<u>Akriti</u>	<u>Akriti</u>
CSE	33900526	AAKRITI SAHRAWAT	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>
CSE	32601232	ABHINAV MEHROTRA	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>
CSE	32702216	ABHISHEK KAMAL	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	14024364	ABHISHEK SINGH	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	33900952	ADITYA DIXIT	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32814260	ADITYA KUMAR	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32303067	AJAJ AHAMED	<u>Ajaj</u>	<u>Ajaj</u>	<u>Ajaj</u>	<u>Ajaj</u>
CSE	32702339	AKSHAT SACHAN	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>
CSE	33900165	AKSHAY RATHI	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>
CSE	32707205	ALANKRIT VERMA	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>
CSE	32802704	AMAN VERMA	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>
CSE		Molshin koul	<u>Molshin</u>	<u>Molshin</u>	<u>Molshin</u>	<u>Molshin</u>

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24 Aug 18

INDUCTION PROGRAMME 2018

NAME OF MENTOR:- RAGHAV DWIVEDI

GROUP NO.5

DATE:- 8/8/2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH	<i>Apoorv</i>	<i>Apoorv</i>	<i>Apoorv</i>	<i>Apoorv</i>
CE	32304099	BALWANT KUMAR YADAV	<i>Balwant</i>	<i>Balwant</i>	<i>Balwant</i>	<i>Balwant</i>
CE	32803638	RHYTHM DUBEY	<i>Rhythm</i>	<i>Rhythm</i>	<i>Rhythm</i>	<i>Rhythm</i>
CE	72701883	ABHINAV GUPTA	<i>Abhinav Gupta</i>	<i>Abhinav Gupta</i>	<i>Abhinav Gupta</i>	<i>Abhinav Gupta</i>
CE	71800351	JIGYASA SHARMA				
CE	33414469	SANDEEP KESHARI	<i>Sandeep Keshari</i>	<i>Sandeep Keshari</i>	<i>Sandeep Keshari</i>	<i>Sandeep Keshari</i>
CE	32708805	HIMANSHU SINGH	<i>Himanshu</i>	<i>Himanshu</i>	<i>Himanshu</i>	<i>Himanshu</i>
CE (FW)	32710752	AKANKSHA VERMA	<i>Akanksha</i>	<i>Akanksha</i>	<i>Akanksha</i>	<i>Akanksha</i>
CSE	31902601	AAKRITI KAIHWAS	<i>Aakriti</i>	<i>Aakriti</i>	<i>Aakriti</i>	<i>Aakriti</i>
CSE	33900526	AAKRITI SAHRAWAT	<i>Aakriti</i>	<i>Aakriti</i>	<i>Aakriti</i>	<i>Aakriti</i>
CSE	32601232	ABHINAV MEHROTRA	<i>Abhi</i>	<i>Abhi</i>	<i>Abhi</i>	<i>Abhi</i>
CSE	32702216	AC'NISHEK KAMAL	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>
CSE	14024364	ABHISHEK SINGH	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>
CSE	33900952	ADITYA DIXIT	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>	<i>Aditya</i>
CSE	32814260	ADITYA KUMAR				
CSE	32303067	AJAJ AHAMED	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>
CSE	32702339	AKSHAT SACHAN	<i>Akshat Sachan</i>	<i>Akshat Sachan</i>	<i>Akshat Sachan</i>	<i>Akshat Sachan</i>
CSE	33900165	AKSHAY RATHI	<i>Akshay</i>	<i>Akshay</i>	<i>Akshay</i>	<i>Akshay</i>
CSE	32707205	ALANKRIT VERMA	<i>Alankrit</i>	<i>Alankrit</i>	<i>Alankrit</i>	<i>Alankrit</i>
CSE	32802704	AMAN VERMA	<i>Aman Verma</i>	<i>Aman Verma</i>	<i>Aman Verma</i>	<i>Aman Verma</i>

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INDUCTION PROGRAMME 2018

GROUP NO.5

DATE:-09/8/2018

NAME OF MENTOR:- RAGHAV DWIVEDI

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH	<u>Apdyh</u>	<u>Apdyh</u>	<u>Apdyh</u>	<u>Apdyh</u>
CE	32304099	BALWANT KUMAR YADAV	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>
CE	71800351	JIGYASA SHARMA	<u>Jigyasa</u>	<u>Jigyasa</u>	<u>Jigyasa</u>	<u>Jigyasa</u>
CE	33414469	SANDEEP KESHARI	<u>Sandeep keshari</u>	<u>Sandeep keshari</u>	<u>Sandeep keshari</u>	<u>Sandeep keshari</u>
CE	32708805	HIMANSHU SINGH	<u>Him</u>	<u>Him</u>	<u>Him</u>	<u>Him</u>
CE (FW)	32710752	AKANKSHA VERMA	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>
CSE	31902601	AAKRITI KAITHWAS	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>
CSE	33900526	AAKRITI SAHRAWAT	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>	<u>Aakriti Sahrawat</u>
CSE	32601232	ABHINAV MEHROTRA	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>
CSE	32702216	ABHISHEK KAMAL	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	14024364	ABHISHEK SINGH	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	33900952	ADITYA DIXIT	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32814260	ADITYA KUMAR	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32303067	AJAJ AHAMED	<u>Ajay</u>	<u>Ajay</u>	<u>Ajay</u>	<u>Ajay</u>
CSE	32702339	AKSHAT SACHAN	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>
CSE	33900165	AKSHAY RATHI	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>
CSE	32707205	ALANKRIT VERMA	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>
CSE	32802704	AMAN VERMA	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>

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NAME OF MENTOR:- RAGHAV DWIVEDI

INDUCTION PROGRAMME 2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	GROUP NO.5 CREATIVE ARTS/ENGLISH	DATE:- 10/8/2018 SPORTS
CE	32706624	APOORV SINGH	<u>Apurv</u>	<u>Apurv</u>	<u>Apurv</u>	<u>Apurv</u>
CE	32304099	BALWANT KUMAR YADAV	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>	<u>Balwant</u>
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>
CE	71800351	JIGYASA SHARMA	<u>Jigyasa</u>	<u>Jigyasa</u>	<u>Jigyasa</u>	<u>Jigyasa</u>
CE	33414469	SANDEEP KESHARI	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>	<u>Sandeep Keshari</u>
CE	32708805	HIMANSHU SINGH	<u>Himanshu</u>	<u>Himanshu</u>	<u>Himanshu</u>	<u>Himanshu</u>
CE (FW)	32710752	AKANKSHA VERMA	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>
CSE	31902601	AAKRITI KAIHWAS	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>
CSE	33900526	AAKRITI SAHRAWAT	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>
CSE	32601232	ABHINAV MEHROTRA	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>
CSE	32702216	ABHISHEK KAMAL	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	14024364	ABHISHEK SINGH	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	33900952	ADITYA DIXIT	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32814260	ADITYA KUMAR				
CSE	32303067	AJAJ AHAMED	<u>Ajaj</u>	<u>Ajaj</u>	<u>Ajaj</u>	<u>Ajaj</u>
CSE	32702339	AKSHAT SACHAN	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>
CSE	33900165	AKSHAY RATHI	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>
CSE	32707205	ALANKRIT VERMA	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>
CSE	32802704	AMAN VERMA	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>	<u>Aman Verma</u>

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21/08/18

INDUCTION PROGRAMME 2018

NAME OF MENTOR:- RAGHAV DWIVEDI

GROUP NO.5

DATE:- 11/8/2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV	Balwant	Balwant	Balwant	Balwant
CE	32803638	RHYTHM DUBEY				
CE	72701863	ASHINAV GUPTA	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta
CE	71800351	JIGYASA SHARMA	Jigyasa	Jigyasa	Jigyasa	Jigyasa
CE	33414469	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH				
CE (FW)	32710752	AKANKSHA VERMA	Akanksha	Akanksha	Akanksha	Akanksha
CSE	31902601	AAKRITI KATHWAS	Aakriti	Aakriti	Aakriti	Aakriti
CSE	33900526	AAKRITI SAHRAWAT	Aakriti	Aakriti	Aakriti	Aakriti
CSE	32601232	ABHINAV MEHROTRA	Abhinav	Abhinav	Abhinav	Abhinav
CSE	32702216	ABHISHEK KAMAL	Abhishek	Abhishek	Abhishek	Abhishek
CSE	14024364	ABHISHEK SINGH	Abhishek	Abhishek	Abhishek	Abhishek
CSE	33900952	ADITYA DIXIT	Aditya	Aditya	Aditya	Aditya
CSE	32814260	ADITYA KUMAR	Aditya	Aditya	Aditya	Aditya
CSE	32303067	AJAJ AHAMED	Ajaj	Ajaj	Ajaj	Ajaj
CSE	32702339	AKSHAT SACHAN	Akshat Sachan	Akshat Sachan	Akshat Sachan	Akshat Sachan
CSE	33900165	AKSHAY RATHI	Akshay	Akshay	Akshay	Akshay
CSE	32707205	ALANKRIT VERMA	Alankrit	Alankrit	Alankrit	Alankrit
CSE	32802704	AMAN VERMA				

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NAME OF MENTOR:- RAGHAV DWIVEDI

INDUCTION PROGRAMME 2018

DEPT.	REG. NO	NAME	GROUP NO.5			
			HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV	Balwant	Balwant	Balwant	Balwant
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta
CE	71800351	JIGYASA SHARMA	Jigyasa	Jigyasa	Jigyasa	Jigyasa
CE	33414449	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH				
CE (FW)	32710752	AKANKSHA VERMA	Akanksha	Akanksha	Akanksha	Akanksha
CSE	31902601	AAKRITI KATHWAS	Aakriti	Aakriti	Aakriti	Aakriti
CSE	32900526	AAKRITI SAHRAWAT	Aakriti	Aakriti	Aakriti	Aakriti
CSE	32601232	ABHINAV MEHROTRA	Abh	Abh	Abh	Abh
CSE	32702216	ABHISHEK KAMAL	Abhishek	Abhishek	Abhishek	Abhishek
CSE	14024364	ABHISHEK SINGH	Abhishek	Abhishek	Abhishek	Abhishek
CSE	32900952	ADITYA DIXIT	Aditya	Aditya	Aditya	Aditya
CSE	32814260	ADITYA KUMAR	Aditya	Aditya	Aditya	Aditya
CSE	32303047	AJAJ AHAMED	Ajaj	Ajaj	Ajaj	Ajaj
CSE	32702239	AKSHAT SACHAN	Akshat Sachan	Akshat Sachan	Akshat Sachan	Akshat Sachan
CSE	32900165	AKSHAY RATHI	Akshay	Akshay	Akshay	Akshay
CSE	32707205	ALANKRIT VERMA	Alankrit	Alankrit	Alankrit	Alankrit
CSE	32802704	AMAN VERMA	Aman	Aman	Aman	Aman

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INDUCTION PROGRAMME 2018

GROUP NO.5

DATE:- 14/8/2018

NAME OF MENTOR:- RAGHAV DWIVEDI

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV	Balwant	Balwant	Balwant	Balwant
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta
CE	71800351	JIGYASA SHARMA	Jigyasa	Jigyasa	Jigyasa	Jigyasa
CE	33414469	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH				
CE (FW)	32710752	AKANKSHA VERMA	Akanksha	Akanksha	Akanksha	Akanksha
CSE	31902601	AAKRITI KAITHWAS	Aakriti	Aakriti	Aakriti	Aakriti
CSE	33900526	AAKRITI SAHRAWAT	Aakriti Sahrawat	Aakriti Sahrawat	Aakriti Sahrawat	Aakriti Sahrawat
CSE	32601232	ABHINAV MEHROTRA	Abhinav	Abhinav	Abhinav	Abhinav
CSE	32702216	ABHISHEK KAMAL	Abhishek	Abhishek	Abhishek	Abhishek
CSE	14024364	ABHISHEK SINGH	Abhishek	Abhishek	Abhishek	Abhishek
CSE	33900952	ADITYA DIXIT	Aditya	Aditya	Aditya	Aditya
CSE	32814260	ADITYA KUMAR	Aditya	Aditya	Aditya	Aditya
CSE	32303067	AJAJ AHAMED	Ajaj	Ajaj	Ajaj	Ajaj
CSE	32702339	AKSHAT SACHAN	Akshat Sachan	Akshat Sachan	Akshat Sachan	Akshat Sachan
CSE	33900165	AKSHAY RATHI	Akshay	Akshay	Akshay	Akshay
CSE	32707205	ALANKRIT VERMA	Alankrit	Alankrit	Alankrit	Alankrit
CSE	32802704	AMAN VERMA				

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21/8/18

NAME OF MENTOR:- RAGHAV DWIVEDI

INDUCTION PROGRAMME 2018

DIPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	GROUP NO.5	DATE:- 16/8/2018
					CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV	Balwant	Balwant	Balwant	Balwant
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta
CE	71800351	JIGYASA SHARMA				
CE	33414469	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH	Himanshu Singh	Himanshu Singh	Himanshu Singh	Himanshu Singh
CE (FW)	32710752	AKANKSHA VERMA				
CSE	31902601	AAKRITI KAIHWAS				
CSE	33900526	AAKRITI SAHRAWAT	Aakriti Sahrawat	Aakriti Sahrawat	Aakriti Sahrawat	Aakriti Sahrawat
CSE	32601232	ABHINAV MEHROTRA	Abhinav	Abhinav	Abhinav	Abhinav
CSE	32702216	ABHISHEK KAMAL	Abhishek Kamal	Abhishek Kamal	Abhishek Kamal	Abhishek Kamal
CSE	14024364	ABHISHEK SINGH	Abhishek Singh	Abhishek Singh	Abhishek Singh	Abhishek Singh
CSE	33900952	ADITYA DIXIT				
CSE	32814260	ADITYA KUMAR	Aditya Kumar	Aditya Kumar	Aditya Kumar	Aditya Kumar
CSE	32303067	AJAJ AHAMED	Ajaj	Ajaj	Ajaj	Ajaj
CSE	32702339	AKSHAT SACHAN	Akshat Sachan	Akshat Sachan	Akshat Sachan	Akshat Sachan
CSE	33900165	AKSHAY RATHI	Akshay Rathi	Akshay Rathi	Akshay Rathi	Akshay Rathi
CSE	32707205	ALANKRIT VERMA	Alankrit Verma	Alankrit Verma	Alankrit Verma	Alankrit Verma
CSE	32802704	AMAN VERMA				

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21 Aug 18



NAME OF MENTOR:- RAGHAV DWIVEDI

INDUCTION PROGRAMME 2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	GROUP NO.5 CREATIVE ARTS/ENGLISH	DATE:- 13/8/2018 SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV				
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>	<u>Abhinav Gupta</u>
CE	71800351	JIGYASA SHARMA				
CE	33474469	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH	<u>Himanshu Singh</u>	<u>Himanshu Singh</u>	<u>Himanshu Singh</u>	<u>Himanshu Singh</u>
CE (FW)	32710752	AKANKSHA VERMA				
CSE	31902601	AAKRITI KATHWAS				
CSE	33900526	AAKRITI SAHRAWAT	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>	<u>Aakriti</u>
CSE	32601232	ABHINAV MEHROTRA	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>	<u>Abhi</u>
CSE	32702216	ABHISHEK KAMAL	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	14024364	ABHISHEK SINGH	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>	<u>Abhishek</u>
CSE	33900952	ADITYA DIXIT				
CSE	32814260	ADITYA KUMAR	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
CSE	32303067	AJAJ AHAMED				
CSE	32702339	AKSHAT SACHAN	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>	<u>Akshat Sachan</u>
CSE	33900165	AKSHAY RATHI	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>
CSE	32707205	ALANKRIT VERMA	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>	<u>Alankrit</u>
CSE	32802704	AMAN VERMA				

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INDUCTION PROGRAMME 2018

NAME OF MENTOR:- RAGHAV DWIVEDI

GROUP NO.5

DATE:- 18/8/2018

DEPT.	REG. NO	NAME	HUMAN VALUES	CREATIVE ARTS/ENGLISH	CREATIVE ARTS/ENGLISH	SPORTS
CE	32706624	APOORV SINGH				
CE	32304099	BALWANT KUMAR YADAV	Balwant	Balwant	Balwant	Balwant
CE	32803638	RHYTHM DUBEY				
CE	72701883	ABHINAV GUPTA	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta	Abhinav Gupta
CE	71800351	JIGYASA SHARMA				
CE	33414469	SANDEEP KESHARI				
CE	32708805	HIMANSHU SINGH	Himanshu Singh	Himanshu Singh	Himanshu Singh	Himanshu Singh
CE (FW)	32710752	AKANKSHA VERMA				
CSE	31902601	AAKRITI KAITHWAS				
CSE	33900526	AAKRITI SAHRAWAT				
CSE	32601232	ABHINAV MEHROTRA				
CSE	32702216	ABHISHEK KAMAL				
CSE	14024364	ABHISHEK SINGH				
CSE	33900952	ADITYA DIXIT				
CSE	32814260	ADITYA KUMAR				
CSE	32303067	AJAJ AHAMED	Ajaj	Ajaj	Ajaj	Ajaj
CSE	32702339	AKSHAT SACHAN				
CSE	33900165	AKSHAY RATHI	Akshay	Akshay	Akshay	Akshay
CSE	32707205	ALANKRIT VERMA				
CSE	32802704	AMAN VERMA				

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**Schedule of "Finishing School in Civil Engineering"**  
 October 29<sup>th</sup>-Nov 2<sup>nd</sup> 2018  
 Department of Civil Engineering, HBTU, Kanpur - 208 002


Day/time	10:30-11:30 am	11:30-12:00 pm	12:00-1:30 pm	1:30-2:30 pm	2:30-3:45 pm	3:45-4.00 pm	4.00-5:00 pm
<b>Monday 29-10-2018</b>	Inaugural Function (10:30 to 11:00 am)  followed by High Tea from 11:00 to 11.30 am	"Civil Engineering Education-Gap between Theory and Practice" Keynote Address e Prof. Animesh Das, IIT Kanpur	"Start-up, Consultancy and Entrepreneurship" Prof. N.B. Singh VC, HBTU Kanpur	<b>L U N C H  B R E A K</b>	"Fresh Graduate: Getting Ready for Interview" Prof. Dipteek Parmar, HBTU	<b>TEA BREAK</b>	"Automation of Civil Engineering Projects" Dr. Santosh Kumar Vam Consultants, Kanpur
<b>Tuesday</b>	10:30 to 11:30 am	11:30 to 12:30 pm	12:30 to 1:30 pm		2:30-3:30 pm	3:30-4:30 pm	4:30-5:30 pm
	"Essential workplace competencies in modern times" Dr. Amit Shukla, IIT Kanpur (10.30-11.45 am)	"Understanding the Basic and Detailed Engineering in Civil Engineering Profession for a fresher" Prof. Dipteek Parmar, HBTU (12.00-1.15 pm)	"Starting a new CE consultancy in the beginning of career" Prof. Sunil Kumar, HBTU		Recent Trends in Pavement Construction and Maintenance" Prof. Pradeep Kumar, HBTU	"Communication Strategy" Dr. K. Sudharshan IIT Kanpur	"Multistoried Building Design" Prof. Sunil Kumar, HBTU
<b>Wednesday</b>	"Foundation Systems" Mr. Arvind Garg Techpro Engineers, Kanpur	Earthquake Resistant Design: Tips for Field Engineers Prof. K.N. Upadhyay IET Lucknow			"Work Profile of Civil Engineering IES in Indian Railways" Mr. Ravi Sharma, IES Indian Railways	"Good English: Getting it right" Prof. Dipteek Parmar HBTU Kanpur	"Getting ready with Excel" Dr. Deepesh Singh, HBTU
<b>Thursday</b>	Site visit to Paricha Weir and Matatila dam						
<b>Friday</b>	Site visit to Jajmau STP, Ganga barrage and Water treatment plant at Ganga barrage						

*(Dipteek Parmar and Sunil Kumar)*  
 Coordinators

List of M.Tech 1st year students Session 2018-19, Batch (2018-2020)

Sl. No.	Name of Student	Roll No.	GATE Score	Category
1	Abhinav Kumar Rathi	180206001	404	OBC
2	Archana Sharma	180206002	463	GEN
3	Arzoo Verma	180206003	256	SC
4	Asif Khan	180206004	372	OBC
5	Ishita Goyal	180206005	426	GEN
6	Manoj Kumar Verma	180206006	342	OBC
7	Mohammad Saif	180206007	480	GEN
8	Mohammad Talib	180206008	424	GEN
9	Neha Katheria	180206009	265	SC
10	Pranshu Kumar Pal	180206010	325	OBC
11	Priyanka Verma	180206011	284	SC
12	Sanjeev Beniwal	180206012	407	GEN
13	Shobhit BhadaGenia	180206013	471	GEN
14	Shubhani Sharma	180206014	416	GEN
15	Vigyan Nidhi	180206015	338	OBC
16	Vishal Bhadauria	180206016	476	GEN
17	Anirudh Mishra	180206017	379	GEN
18	Avnish Shukla	180206018	392	GEN

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# HARCOURT BUTLER TECHNICAL UNIVERSITY, KANPUR

School of Engineering  
Branch : IV Year B.Tech. Civil Engineering  
Academic Session : 2018-19

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S. No.	Roll No.	Name	Father Name	Catg.	M / F
1	1304500022	RITIK SINGH	SOBRAN SINGH	SC	F
2	1404500007	BRAJESH KUMAR	BASUDEV	SC	M
3	1404500016	MANISH KUMAR PRAJAPATI	BASHANT LAL PRAJAPATI	OBC	M
4	1404500022	RAJAT KUMAR	SUNIL KUMAR	OBC	M
5	1504500001	ABHINAV SINGH	PRAMOD SINGH	OBC	M
6	1504500002	AJEET PRATAP SINGH	YAGYA PRATAP SINGH	GEN	M
7	1504500003	AKRITI SINGH	LAXMI KANTI	OBC	F
8	1504500004	AI ANKRITA	A SANJAY SAHAY	GEN	F
9	1504500005	ALOK VARMA	CHANDRA SHEKHAR VARMA	OBC	M
10	1504500006	AMIT KUMAR SINGH	RAMKISHOR SINGH	OBC	M
11	1504500007	ANAND SAHU	SITA RAM SAHU	GEN	M
12	1504500008	ANANYA CHAUBEY	ARVIND CHAUBEY	GEN	M
13	1504500010	ASHISH	RAJENDRA SINGH	GEN	M
14	1504500011	ASHUTOSH CHAURASIA	SANJAY CHAURASIA	GEN	M
15	1504500013	AVIH TRIPATHI	VANKAL TRIPATHI	GEN	M
16	1504500014	DIWAS SHARMA	MR. TULASHI PRASAD SHARMA	GEN	M
17	1504500015	FAZAL ALI HABIB	MOHD ALI	GEN	M
18	1504500016	GAJENDRA YADAV	RAM NARAYAN YADAV	OBC	M
19	1504500017	HIM KUMAR CHEHRI	PURANA BAHADUR CHEHRI	GEN	M
20	1504500018	HIMANTI KUMAR	BIHAGYAN DAS	SC	M
21	1504500019	HIMANSHU SINGH	R.P. SINGH	GEN	M
22	1504500020	HIRENDRA MISHRA	RAJESH MISHRA	GEN	M
23	1504500021	KARUN CHOUDHARY	MR. NARENDRA SINGH	OBC	M
24	1504500022	NAMAN MISHRA	PRABHAT NARAIN MISHRA	GEN	M
25	1504500023	PRASHANT MISHRA	HARIDWAR MISHRA	GEN	M
26	1504500024	RAJAT MISHRA	PURSHOTAM MISHRA	GEN	M
27	1504500025	SAJAL DUBEY	MR. SANJAY KUMAR DUBEY	GEN	M
28	1504500026	SANDEEP KUMAR MAURYA	JAIRAJ MAURYA	OBC	M
29	1504500027	SAURABH SINGH	MAN SINGH	OBC	M
30	1504500028	SHIKHAR SINHA	SIDDHARTHA SINHA	GEN	M
31	1504500029	SHUBHAM	VIRENDRA SINGH	GEN	M
32	1504500030	SUMIT KUMAR	BALAK RAM	SC	M
33	1504500031	SUMIT SINGH	KAMESHWAR SINGH	GEN	M
34	3604500001	ANJALI	SHRICHAND	SC	F
35	3604500002	NANID LAL CHAUDHARY	RAJENDRA PRASAD CHAUDHARY	OBC	M
36	3604500003	SHIVOM	SH. CHANDER PAL	OBC	M
37	3604500004	SUBODHA KUMAR	RAJESHWAR DAYAL	SC	M
38	3604500005	SUNEEL KUMAR	CHAINSUKH ARYA	SC	M
39	3604500006	TEESTA UPADHYAYA	MR. MUKESH KR. UPADHYAYA	GEN	F

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**HARCOURT BUTLER TECHNICAL UNIVERSITY, KANPUR**

**School of Engineering**  
**Branch : III Year B.Tech. Civil Engineering**  
**Academic Session : 2018-19**

S. No.	Roll No.	Name	Father Name	Catg.	M / F
1	1604500001	ABHINAV JAIN	ASHISH KUMAR JAIN	GEN	M
2	1604500002	ADITYA KUMAR JAISWAL	KISHOR KUMAR JAISWAL	OBC	M
3	1604500003	AKASH DWIVEDI	AMAR NATH DWIVEDI	GEN	M
4	1604500004	ANJALI PATEL	ASHOK KUMAR SINGH PATEL	OBC	F
5	1604500006	ASEEM DUBEY	MAHIMASEEMDUBEY	GEN	M
6	1604500007	ASHISH KUMAR	ROHIT GOND	ST	M
7	1604500008	ASHMITA RAI	RANJEET RAI	GEN	F
8	1604500009	AYUSH AWASTHI	ANUPAMAWASTHI	GEN	M
9	1604500010	BEERU YADAV	VIRENDRA YADAV	OBC	M
10	1604500011	DEEPANKAR PANDEY	SURESH CHANDRA PANDEY	GEN	M
11	1604500012	DIVYANSHU CHANDRA	RAMCHANDRA	SC	M
12	1604500013	JAYANT KUMAR	NAND KISHOR	GEN	M
13	1604500014	KUSHAGRA SINGH	YOGESH SINGH	GEN	M
14	1604500015	MAHESH PANDEY	SHASHI PANDEY	GEN	M
15	1604500016	MAYUR MISHRA	D. K. MISHRA	GEN	M
16	1604500018	NISHITA SINGH	ARUN KUMAR	SC	F
17	1604500019	NITEESH PATHAK	VIPIN SHANKAR PATHAK	GEN	M
18	1604500020	PRAFUL CHAUHAN	DEVENDRA SINGH	GEN	M
19	1604500021	PRAVIN KUMAR PATEL	DINESH SINGH	OBC	M
20	1604500022	PREETAM SINGH	KRISHNA PAL SINGH	GEN	M
21	1604500023	PRINCE SHARMA	BANKE LAL SHARMA	GEN	M
22	1604500024	RAJAT KUMAR	SONPAL SINGH	SC	M
23	1604500025	SHIVSHANKAR MAURYA	SADANAND MAURYA	OBC	M
24	1604500026	SHWETA UPADHYAY	BHASHKAR UPADHYAY	GEN	F
25	1604500027	SOURAB SHARMA	VED PRAKASH	GEN	M
26	1604500028	SURBHI SAXENA	SUDHIR KUMAR SAXENA	GEN	M
27	1604500029	TANU PRAKASH	RANVEER SINGH	SC	M
28	1604500030	UJAKARSHI YADAV	SANTOSH KUMAR YADAV	OBC	M
29	1604500031	VIKASH KUMAR MISHRA	RAMKUMAR MISHRA	GEN	M
30	1604500032	YOGENDRA KUMAR	VISHAMBHAR DAYAL	OBC	M
31	1604530030	SHASHANK MISHRA	VIVEKANAND MISHRA	GEN	M
32	1604555025	SWATI SINGH	RAJNARAYAN SINGH	OBC	F

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Date: 03/07/2020

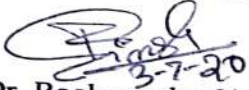
The Coordinator TEQIP  
HBTU, Kanpur

Respected Sir,

Please find herewith attached proposal with all details to conduct the student training programme on future skill technologies:


- 1- Internet of Things (Pages- 25 to 35)
- 2- Data Science and Data Analytics (Pages- 14 to 24)
- 3 – Robotics and Automation (pages- 1 to 13)

With warm regards.



Dr. Raghendra Singh  
Co-ordinator "Future Skill Technologies"

Nodal officer (Acad.)

  
6/7/2020

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The Coordinator TEQIP  
HBTU, Kanpur

Date: 03/07/2020

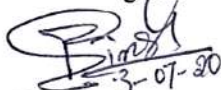
**Subject-** For approval of remuneration as per circular of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492) and providing consent to conduct the Student Training on "Future Skill Technologies (IoT)" through Online Mode.

Respected Sir,

I would like to inform you that we are planning to conduct student training programme on future skill technology "**Internet of Things (IoT)**" as per direction of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492). In this series, we have made two batches (60 students in each batch) after taking willingness of students through google form. The proposed Lecture delivery plan (tentative) and details of students in list of Batches are attached herewith this letter. As per curriculum provided by NPIU and IIT Bombay total hours taken to complete the curriculum is 80 hours (40 Theory + 40 Lab).

Therefore we request you to permit us to conduct the training programme and approve the remuneration for faculty mentors i.e. **Rs. 700/-** per hour as per circular of NPIU (detailed circular from NPIU is enclosed herewith).

With warm regards



Dr. Raghendra Singh  
Assistant Professor (TEQIP-III)  
Department of Mathematics

on leave

Mrs. Nayanica Srivastava  
Assistant Professor (TEQIP-III)  
Dept. Of ET, HBTU

(her consent is attached)  
(copy of gmail)



## Lecture Delivery Plan (LDP) regarding Student Training on Future Skill Technologies through Online Mode by Faculty Trained at IITs

**Course title:** Internet of Things (IoT)

**Motivation for this curriculum:**

In our view, a course on 'Internet of Things' (IoT) is difficult to be considered as one course. This is mainly because IoT involves several concepts/components which are themselves taught in full semester courses. Further, even if offered as a course (or a set of courses) it can have different focus areas depending on whether it is offered as (i) an Electrical Engineering or (ii) Computer science. Here, we suggest a curriculum from an Electrical Engineering (EE, EC, or in GATE) perspective. It is better if this course is considered as a two parts course, if an 80 hours curriculum is envisaged.

**Pre-requisites:**

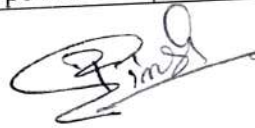
Microprocessors, Instrumentation, Analog/Digital Circuits, Signal processing, Basics of Communication Systems, Probability, Programming language (C/Python)

**Focused Students:** B.Tech and M.Tech

**Duration:** 80 hrs

**Timeline and Course content:**

S.No	Module	Curriculum	Timeline	Expected No. Of Students
1.	I: IoT Introduction and Fundamentals	<ul style="list-style-type: none"> <li>● Deciphering the term IoT</li> <li>● Applications where IoT can be deployed</li> <li>● Benefits/challenges of deploying an IoT</li> <li>● IoT components: Sensors, front-end electronics (amplifiers, filtering, digitization), digital signal processing, data transmission, choice of channel (wired/wireless), back-end data analysis.</li> <li>● Understanding packaging and power</li> </ul>	<p><b>03 hours</b> Day 1: 03 hrs (Batch-I) (Batch-II)</p> <p><b>Total : 03 hrs per Batch</b></p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>



		constraints for IoT implementation.		
2.	<b>II: Signals, Sensors, Actuators, Interfaces</b>	<ul style="list-style-type: none"> <li>● Sensors: types, signal types, shape and strength</li> <li>● Sensor non-idealities: Sensitivity and offset drift, noise, minimum detectable signal, nonlinearity</li> <li>● Read-out circuits: Instrumentation-amplifier, SNR definition, noise-bandwidth-power tradeoff</li> <li>● Circuit component mismatch and mitigation techniques (calibration, chopping, autozeroing etc.)</li> <li>● Power/energy considerations</li> <li>● Basic signal processing (filtering, quantization, computation, storage)</li> </ul>	<p><b>15 hrs</b></p> <p>Day-2 (03 hrs.) (Batch-I) (Batch-II)</p> <p>Day -3 (03 hrs) (Batch-I) (Batch-II)</p> <p>Day-4 (03 hrs) (Batch-I) (Batch-II)</p> <p>Day-5 (03 hrs) (Batch-I) (Batch-II)</p> <p>Day-6 (03 hrs) (Batch-I) (Batch-II)</p> <p><b>Total : 5*3=15 hrs per Batch</b></p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>
3.	<b>III: Networking and Cloud Computing in IoT</b>	<ul style="list-style-type: none"> <li>● Review of Communication Networks, Challenges in Networking of IoT Nodes, range, bandwidth</li> <li>● Machine-to-Machine (M2M) and IoT Technology Fundamentals, Medium Access Control (MAC) Protocols for M2M Communications 2 of 2</li> <li>● Standards for the IoT</li> <li>● Basics of 5G Cellular Networks and 5G IoT</li> </ul>	<p><b>15 hrs</b></p> <p>Day-7 (03 hrs.) (Batch-I) (Batch-II)</p> <p>Day -8 (03 hrs) (Batch-I) (Batch-II)</p> <p>Day-9(03 hrs) (Batch-I) (Batch-II)</p> <p>Day-10(03 hrs) (Batch-I(60))</p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total = 60*2=120</p>

*P Singh*



U.P.  
NoF

for n.a please.

*[Signature]*

23.01.2021  
Nodal Officer Engineering TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

*[Signature]*  
23/01/2021  
Nodal Officer Technology TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

R.L.  
23-1-21

आवेदन / विवरण एवं नोट्स के विषय में / R.O

मल्टी डिप्लोमा के अंतर्गत प्रयोग 21-1-2021 को अद्यतन करके कोर्स कर रहे हैं, इसके द्वारा प्रयोग 10-0-20 से 2-10-20 तक इंटरनेट अथवा ऑनलाइन प्लान से कोर्स हो रहा है।

- ① Dr. Raghendra Singh, Training total doctrs. = Rs = 56000 = 0
- ② Dr. Raghendra Singh, Conductor @ 500 = 0 per month x 3 months = Rs = 1500 = 0

Rs = 57500 = 0

संयोजित और शक्ति परीक्षाओं पर प्रत्येक स्तर पर चयन के लिए आगे आगे 2 कोर्स 1-1-2-3 Graduate employability के तहत चयन कर रहे हैं और शक्ति पर Rs = 57500 = 0 (संयोजित एवं शक्ति परीक्षा) कोर्स कर रहे हैं।  
Dr. Raghendra Singh, NPID faculty, Malh Dept का कार्य जारी है।  
विशेष रूप से यशमाला आशुतोष प्रधान द्वारा चोरे /

*[Signature]*  
04.2.2021  
(रजत, पीएम)  
प्रो प्रोफेसर

*[Signature]*  
5-2-21  
(प्रमोद के.एम.आर.)  
आंतरिक सम्परीक्षक

*[Signature]*  
14-2-21

I.A  
वर्तमान  
As  
8-24 H.O.D. का  
कार्य सल  
कार्य /  
11-2-21  
वित्त एवं लेखाधिकारी  
(प्रमोद के.एम.आर.)  
आंतरिक सम्परीक्षक



मां सं। विद्यापीठ नोअविति / समकालीन टेकिंग्स-14

उत्पन्न है। एच सी। ए नोअविति  
NPIU को एडवॉकेट के अनुसार Training हेतु faculty  
training के Extra remuneration Rs = 700-20 for hrs एल coordinator  
( future skill training) के no 500-20 for monthly (NPIU / TEQIP-III)  
Acad 2020/192 dt. 7.2.20 Circular के अनुसार Honorarium  
for three month Component code 11.2.3 Graduate  
employability के नद है एच सी विद्यापीठ विज्ञान एवं  
यशोवती अउमोपन सफलता की दशा में प्रदान विद्यापीठ  
एकमात्र ही सहायता प्रदान करती है। एच सी विद्यापीठ में समाप्त  
हो रही है। अतः एच सी विद्यापीठ द्वारा अउमोपन प्रदान करती-चाहे।

20-7-2020

20-7-20  
(एसकेएमआर)  
आंतरिक सचरीवक

(रजत लाल)  
प्रभो लाल शर्मा

निर्णय सक्षम स्तर से  
लिया जाना उचित होगा

13-8-20

उपरोक्त Training NPIU की ओर से अनिवार्य है।  
अनुमोदन प्रदान करना-चाहे।

Nodal Officer Finance TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

13.8.2020

मां कुलपति

Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

13 AUG 2020

Coordinator, Future Skill Training

for m/n please -

18.8.2020

कुलपति  
हार्कर्ट बटलर प्रौद्योगिकी विश्वविद्यालय  
कानपुर-2

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Certificate

It is certified that, the students training on the future technology entitled "Internate of things" have conducted through online mode using google class room and attendance recorded through google meet. due to internate connectivity students joined many time, therefore in attendance sheet name of some students are repeted. As per guideline of NPIU hands on given to student by google class room, whatsapp and also doubts are clear through telephonic discussion. total student appear in end term exam conducted by NASSCOM is 68 (both batch) in which 21 is passed in bronze , one in gold, and two in silver category.



(Dr Raghwendra Singh)

Co-ordinator "Future skill Technology"

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### Achievement Report

the students training on the future technology entitled "Internate of things" have conducted through online mode using google class room. As per guideline of NPIU hands on given to student by google class room, whatsapp and also doubts are clear through telephonic discussion. total student appear in end term exam conducted by NASSCOM is 68 in which 21 is passed in bronze , one in gold, and two in silver category(Total 24). The result is main achievement of this training programme.



(Dr Raghwendra Singh)

Co-ordinator " Future skill Technology"



		<p>Communications, Low-Power Wide Area Networks (LPWAN)</p> <ul style="list-style-type: none"> <li>• Wireless communication for IoT: channel models, power budgets, data rates</li> <li>• IoT Security and Privacy, MQTT Protocol, Publisher and Subscriber Model</li> <li>• Cloud computing platform (open source) and local setup of such environment</li> <li>• Embedded software relevant to microcontroller and IoT platforms (enterprise or consumer), user interfaces</li> </ul>	<p>(Batch-II(60))</p> <p>Day-11(03 hrs) (Batch-I(60)) (Batch-II(60))</p> <p><b>Total : 5*3=15 hrs per Batch</b></p>	
4.	<b>IV: Data Analysis for IoT applications</b>	<ul style="list-style-type: none"> <li>• Statistics relevant to large data</li> <li>• Linear regression</li> <li>• Basics of clustering, classification</li> </ul>	<p><b>07 hrs</b></p> <p>Day-12 (03 hrs.) (Batch-I(60)) (Batch-II(60))</p> <p>Day -13 (04 hrs) (Batch-I(60)) (Batch-II(60))</p> <p><b>Total : 03 hrs +04 hrs =07 hrs per Batch</b></p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>
5.	<b>V: Hardware/software Experiments/labs</b>	<p>Set of experiments (using Arduino, Raspberry Pi, DSPs, custom board) to understand and experiment with the theoretical aspects that were covered in various modules, culminating in one or more mini-projects.</p>	<p><b>40 hrs</b></p> <p>Day-14(04 hrs.) (Batch-I) (Batch-II)</p> <p>Day -15 (04 hrs) (Batch-I) (Batch-II)</p>	<p>2 Batches (One Faculty Mentor with each batch) (60 each)</p> <p>Total= 60*2=120</p>

*P Singh*

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## Lecture Delivery Plan

Course title: Internet of Things (IoT)

Duration: 87 hours, Batch I,

Time: 5:00 PM to 8:00 PM (3 hours)

S.No	Module	Curriculum	Date	
1.	I: IoT Introduction and Fundamentals (1×3=3 hours)  3-hr.	<ul style="list-style-type: none"> <li>Deciphering the term IoT</li> <li>Applications where IoT can be deployed</li> <li>Benefits/challenges of deploying an IoT</li> <li>IoT components: Sensors, front-end electronics (amplifiers, filtering, digitization), digital signal processing, data transmission, choice of channel (wired/wireless), back-end data analysis.</li> <li>Understanding packaging and power constraints for IoT implementation.</li> </ul>	18-08-20	✓ 3-hr.
	II: Signals, Sensors, Actuators, Interfaces (6×3=18 hours)  18 hrs.	<ul style="list-style-type: none"> <li>Sensors: types, signal types, shape and strength</li> </ul>	19-08-20	✓ 3-hr.
		<ul style="list-style-type: none"> <li>Sensor non-idealities: Sensitivity and offset drift, noise, minimum detectable signal, nonlinearity</li> </ul>	20-08-20	✓ 3-hr.
		<ul style="list-style-type: none"> <li>Read-out circuits: Instrumentation-amplifier, SNR definition, noise-bandwidth-power tradeoff</li> </ul>	21-08-20	✓ 3-hr.
		<ul style="list-style-type: none"> <li>Circuit component mismatch and mitigation techniques (calibration, chopping, autozeroing etc.)</li> </ul>	22-08-20	✓ 3-hr.
		<ul style="list-style-type: none"> <li>Power/energy considerations</li> </ul>	24-08-20	✓ 3-hr.
		<ul style="list-style-type: none"> <li>Basic signal processing (filtering, quantization, computation, storage)</li> </ul>	25-08-20	✓ 3-hr.
	III: Networking and Cloud Computing in IoT (6×3=18 hours) 18 hrs.	<ul style="list-style-type: none"> <li>Review of Communication Networks, Challenges in Networking of IoT Nodes, range, Bandwidth, Machine-to-Machine (M2M) and IoT Technology Fundamentals, Medium Access</li> </ul>	26-08-20	✓ 3-hr.

  
 Dr. Rashwanter Singh  
 (Trainer and Co-ordinator Future Skill Training)



1-10-20

SPM to B PM

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Name	Roll No	Branch	Date
Samana Butool	190105029	Electrical Engineering	01-10-2020
Rajarshi Tiwari	190106033	ET	01-10-2020
Harsh Verma	180102014	2nd btech CE	01-10-2020
Sachin Kumar	170111014	oil technology	01-10-2020
Subhash Chandra Verma	170101026	Biochemical engineering	01-10-2020
Krishna Katiyar	170107014	Food Technology	01-10-2020
Mahaveer Jain	190102015	civil engineering	01-10-2020
Priyanshi Omer	180106026	Electronics Engineering	01-10-2020
DEEPAK KUMAR	180110027	Mechanical engineering	01-10-2020
Upagyya Dixit	180106047	ET	01-10-2020
Richa Singh	180106029	electronics engineering	01-10-2020
Aryan singh	190103016	Chemical engineering	01-10-2020
Utkarsh Azad	190103060	Chemical Engineering	01-10-2020
Piyush Kumar chaudhari	190106029	Electronics engineering	01-10-2020
Yash Kumar Singh	170109018	Leather Technology	01-10-2020
Jyoti	190105019	Electrical Engineering	01-10-2020
Aryan singh	190103016	Chemical engineering	01-10-2020
Aman Kumar	180107007	Food Technology	01-10-2020
Abhinandan mishra	170107001	Final btech food technology	01-10-2020
Shubham Rana	190110060	Mechanical Engineering	01-10-2020
Muskan Dubey	180106021	Electronics engineering	01-10-2020
Utkarsh pal	180110057	Mechanical engineering	01-10-2020
Utkarsh Pal	180110057	Mechanical engineering	01-10-2020
Manya Pandey	180112015	Electronics Engineering	01-10-2020
AMAN PAL	170101003	Biochemical Engineering	01-10-2020
Sachin Kumar	170111014	oil technology	01-10-2020
Km. Sneha	180110036	Mechanical Engineering	01-10-2020
Tanishka Chandra	190106053	ET	01-10-2020
Aman Gupta	170101002	Biochemical engg	01-10-2020
Jatin Gupta	180103019	Che	01-10-2020
Harsh Verma	180102014	CE	01-10-2020
Devanshi Tiwari	190103021	Chemical engineering	01-10-2020
Samana Butool	190105029	Electrical Engineering	01-10-2020
Asmita Gupta	190101008	Biochemical engineering	01-10-2020
Pankaj Kumar	180109008	Lt	01-10-2020
Aditya Mishra	190103006	Chemical Engineering	01-10-2020
Kartik dixit	190110036	2 mechanical engineering	01-10-2020

Nodal Officer Engineering Deptt-II  
 Harcourt Butler Technical University  
 Kanpur-208002



Registered

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Updated List of Students ( IOT- Batch-I) Trainer: Dr Raghendra Singh, HBTU, Kanp

S.N	NAME	Email ID	Contact Num	Gender	Enrollment no.
1	Aman Gupta	170101002@hbtu.ac.in	8052956062	Male	170101002
2	Apurva yadav	170101004@hbtu.ac.in	7068787809	Female	170101004
3	Abhinandan mishra	170107001@hbtu.ac.in	8756043539	Male	170107001
4	Ankit Kashyap	170109007@hbtu.ac.in	6388395113	Male	170109007
5	Yash Kumar Singh	170109018@hbtu.ac.in	6387787916	Male	170109018
6	Sachin Kumar	170111014@hbtu.ac.in	7390093388	MALE	170111014
7	Ankish Verma	180101008@hbtu.ac.in	9140867058	Male	180101008
8	Harsh Verma	180102014@hbtu.ac.in	6386182610	Male	180102014
9	Aviral Gupta	180103013@hbtu.ac.in	9454748424	Male	180103013
10	Jatin Gupta	180103019@hbtu.ac.in	8090938500	Male	180103019
11	Muskan Dubey	180106021@hbtu.ac.in	9129176677	Female	180106021
12	Priyanshi Omer	180106026@hbtu.ac.in	9616201717	Female	180106026
13	Richa Singh	180106029@hbtu.ac.in	8318538099	female	180106029
14	Upagyya Dixit	180106047@hbtu.ac.in	9935685535	Female	180106047
15	Aman Kumar	180107007@hbtu.ac.in	8299225691	Male	180107007
16	Aman Kumar	180107007@hbtu.ac.in	8299225691	Male	180107007
17	Pankaj kumar	180109008@hbtu.ac.in	9140778726	Male	180109008
18	DEEPAK KUMAR	180110027@hbtu.ac.in	6398936260	Male	180110027
19	Utkarsh Pal	180110057@hbtu.ac.in	7651857146	Male	180110057
20	Manya Pandey	180112015@hbtu.ac.in	6393227629	Female	180112015
21	Mahaveer Jain	190102015@hbtu.ac.in	6392507439	Male	190102015
22	Aditya Mishra	190103006@hbtu.ac.in	6389005501	Male	190103006
23	Aditya Mishra	190103006@hbtu.ac.in	6389005501	Male	190103006
24	Aryan Singh	190103016@hbtu.ac.in	07458946963	Male	190103016
25	Aryan Singh	190103016@hbtu.ac.in	07458946963	Male	190103016
26	Mayank Khanna	190103035@hbtu.ac.in	08299023118	Male	190103035
27	Utkarsh Azad	190103060@hbtu.ac.in	8960019693	Male	190103060
28	Utkarsh Azad	190103060@hbtu.ac.in	8960019693	Male	190103060
29	Jyoti	190105019@HBTU.AC.	9369622763	Female	190105019
30	Samana Butool	190105029@hbtu.ac.in	6388219576	Female	190105029
31	shubhi	190105035@hbtu.ac.in	7808030810	female	190105035
32	Yash Yuvraj Singh	190105044@hbtu.ac.in	9660823027	Male	190105044
33	Piyush Kumar Chau	190106029@hbtu.ac.in	6394024817	Male	190106029
34	Piyush rajput	piyushrajput0554@gmail	6395250473	Male	190106030
35	Piyush rajput	piyushrajput0554@gmail	6395250473	Male	190106030
36	Rajarshi Tiwari	190106033@hbtu.ac.in	8840468477	Male	190106033
37	Tanishka Chandra	190106053@hbtu.ac.in	8923978437	Female	190106053
38	Aryan Pandey	190110009@hbtu.ac.in	09336043494	Male	190110009
39	Ashish singh	190110011@hbtu.ac.in	8954565744	Male	190110011
40	Kartik dixit	190110036@hbtu.ac.in	8756514405	Male	190110036



( Dr. Raghendra Singh )



III

	12 Hrs	<ul style="list-style-type: none"> <li>o Experiment involving a microcontroller with wireless enabled peripheral – interfacing of sensors, communicating data to a local server, fusion at the server, sending actuator signals from the server</li> </ul>	19-09-20, 20-09-20, 21-09-20, 23-09-20 (4×3=12 hours)
	6 Hrs	<ul style="list-style-type: none"> <li>• Experiment involving simple audio/speech processing on DSP or Raspberry Pi (optional)</li> </ul>	24-09-20, 29-09-20 (2×3=06 hours)
	6 Hrs	<ul style="list-style-type: none"> <li>• two mini-projects focused on realizing practical IoT applications</li> </ul>	1-10-20, 2-10-20 (2×3=06 hours)

• Faculty Mentor:

1) Dr. Raghwendra Singh (Assistant Professor (TEQIP-III), Dept. Of Mathematics, HBTU, Kanpur)

(Dr. Raghwendra Singh)

2021

- 3.00 Hrs.
- 10.00 Hrs
- 10.00 Hrs
- 6.00 Hrs
- 10.00 Hrs
- 12.00 Hrs
- 6.00 Hrs
- 6.00 Hrs

07.00 Hrs

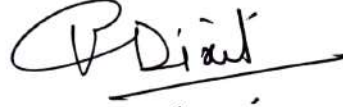


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41	Sambhav Jain	190110051@hbtu.ac.in	8858008019	Male	190110051
42	Shashank Tiwari	190110054@hbtu.ac.in	8887414813	Male	190110054
43	Shikher Triwedi	190110056@hbtu.ac.in	6387611363	Male	190110056
44	Shubham Rana	190110060@hbtu.ac.in	6397575958	Male	190110060
45	Tapish Garg	190110066@hbtu.ac.in	8218868766	Male	190110066
46	Mayank singh verma	190111019@hbtu.ac.in	6307892130	Male	190111019
47	Mayank tiwari	190113020@hbtu.ac.in	9598605321	Male	190113020
48	Harshit Bhargava	190205009@hbtu.ac.in	7007949023	Male	190205009
49	srishiti gupta	190205015@hbtu.ac.in	9140675183	Female	190205015
50	Km. Sneha	180110036@hbtu.ac.in	8439922790	Female	180110036
51	Kushagra Srivastava	180107017@hbtu.ac.in	08887934361	Male	180107017
52	Subhash Chandra Ve	170101026@HBTU.AC.	7398658912	Male	170101026
53	Krishna Katiyar	170107014@hbtu.ac.in	8840014634	Male	170107014
54	Km. Sneha	180110036@hbtu.ac.in	8439922790	Female	180110036
55	Yash Yuvraj Singh	190105044@hbtu.ac.in	9660823027	Male	190105044



( Dr. Rajmendra Singh )





24-09-20

5 PM to 8 PM

(73)

Date	Name	Roll No	Branch	Date
23-09-2020 19:43:04	Shubham Rana	190110060	Mechanical Engineering	24-09-2020
23-09-2020 19:43:13	Harshit Bhargava	190205009	M.tech ET 2nd Year	24-09-2020
23-09-2020 19:45:39	Utkarsh Azad	190103060	Chemical Engineering	24-09-2020
23-09-2020 19:46:05	Aman Kumar	180107007	Food Technology	24-09-2020
23-09-2020 19:47:04	Aryan singh	190103016	Chemical engineering	24-09-2020
9-24-2020 19:47:27	Km. Sneha	180110036	Mechanical engineering	24-09-2020
9-24-2020 19:51:36	Yash Yuvraj Singh	190105044	Electrical engineering	24-09-2020
9-24-2020 19:52:18	JYOTI	190105019	Electrical engineering	24-09-2020
9-24-2020 19:58:07	Piyush Kumar chaudhari	190106029	Electronics engineering	24-09-2020
9-24-2020 20:02:20	Priyanshi Omer	180106026	Electronics Engineering	24-09-2020
9-24-2020 20:04:50	Shikher Triwedi	190110056	ME	24-09-2020
9-24-2020 20:09:56	Aditya Mishra	190103006	Chemical Engineering	24-09-2020
9-24-2020 20:10:17	Richa Singh	180106029	Electronics	24-09-2020
9-24-2020 20:11:59	Tanishka Chandra	190106053	ET	24-09-2020
9-24-2020 20:35:12	Aman Gupta	170101002	Biochemical Engg.	24-09-2020
9-24-2020 20:47:05	Mahaveer Jain	190102015	Civil Engineering	24-09-2020
9-24-2020 21:09:47	Upagyya Dixit	180106047	ET	24-09-2020
9-24-2020 6:00:18	Yash Kumar Singh	170109018	Leather Technology	24-09-2020
9-24-2020 17:04:44	Srishti gupta	190205015	ET	24-09-2020

Nodal Officer Engineering TEQIP-III  
 Hartcourt Butler Technical University  
 Kanpur-208002

**NPIU**

(48) Annex-1

**राष्ट्रीय परियोजना कार्यान्वयन एकक**  
(राकनीकी शिक्षा में विश्व बैंक सहायक परियोजना के कार्यान्वयन के लिए भारत सरकार, मानव ससाधन विकास मंत्रालय का एकक)  
**National Project Implementation Unit**  
(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/2020/492**

**Date: 07-02-2020**

**CIRCULAR**

I offer my sincere thanks to Heads of TEQIP 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 lab 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.
- \* 8. 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 [lnagar.teqip@gmail.com](mailto:lnagar.teqip@gmail.com) or 8827749689.

With Regards,

  
**Prof. (Dr.) P. M. Kfiodke**  
Central Project Advisor

To: **1. All Institutions (1.1 & 1.3)**

Copy to:  
**1. All SPIUs**

कोपिया कॉरपोरेट सुइट्स, तृतीय तल  
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ई-मेल / E-mail : [npiu-mhrd@gov.in](mailto:npiu-mhrd@gov.in)



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Annex - 2

List of faculty participated in Future Skill Trainings at IITs

No.	State	Name of Institute	Name of Faculty
1	A & N	Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair	Sukhvinder Singh
2	A & N	Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair	RAJNISH KUMAR
3	A & N	Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair	Ranjanbala Sahu
4	A & N	Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair	R.Mohan
5	Andhra Pradesh	JNTU College of Engineering, Anantpur	K. Rajesh Sam
8	Andhra Pradesh	A U College of Engg., Visakhapatnam	V V S Bhaskara Reddy, Chintapalli
9	Andhra Pradesh	JNTUA College of Engineering Ananthapuramu	Dugasani Sasidhar Reddy
6	Andhra Pradesh	Sri Venkateswara University	Ch. V. Naga Sowjanya
7	Andhra Pradesh	Sri Venkateswara University	P.Sreedhar
10	Andhra Pradesh	SVU College of Engineering, Tirupati	S. Varadarajan
11	Assam	Assam Engineering College, Kamrup	Kamini Kumari
12	Assam	Assam Engineering College, Kamrup	Juan Chowdhury
13	Assam	Bineswar Brahma Engineering College, Kokrajhar	Sasanka Borah
14	Assam	Bineswar Brahma Engineering College, Kokrajhar	Rahul Kumar
15	Assam	Bineswar Brahma Engineering College, Kokrajhar	Dr. Arindam Kundu
16	Assam	Dibrugarh University Institute of Engineering and Technology	Harsh Vardhan
17	Assam	Jorhat Engineering College, Jorhat	Rabinder Kumar Prasad
18	Assam	Jorhat Engineering College, Jorhat	VARUN KUMAR
19	Assam	Bhagalpur College of Engineering, Bhagalpur	Rahul Raman
20	Bihar	Bhagalpur College of Engineering, Bhagalpur	Uday Kumar
21	Bihar	Bhagalpur College of Engineering, Bhagalpur	Abhinav Kumar
22	Bihar	Bhagalpur College of Engineering, Bhagalpur	Kuldeep Yadav
23	Bihar	Bhagalpur College of Engineering, Bhagalpur	SATYENDRA KUMAR MISHRA
24	Bihar	Darbhangha College of Engineering, Darbhanga	Tabish Shanu
25	Bihar	Darbhangha College of Engineering, Darbhanga	Mukesh Kumar
26	Bihar	Darbhangha College of Engineering, Darbhanga	Shakti Prasad Senapati
27	Bihar	Darbhangha College of Engineering, Darbhanga	Diwakar Verma
28	Bihar	Darbhangha College of Engineering, Darbhanga	Punam Prabha
29	Bihar	Darbhangha College of Engineering, Darbhanga	RAVI RANJAN
30	Bihar	Darbhangha College of Engineering, Darbhanga	Madhav Ram
31	Bihar	Darbhangha College of Engineering, Darbhanga	RAVI KUMAR
32	Bihar	Darbhangha College of Engineering, Gaya, Sri Krishna Nagar	Sweta Kumari
33	Bihar	Gaya College of Engineering, Gaya, Sri Krishna Nagar	Shashank Tripathi
34	Bihar	Gaya College of Engineering, Gaya, Sri Krishna Nagar	Manoj Kumar
35	Bihar	Gaya College of Engineering, Gaya, Sri Krishna Nagar	Navin Kumar
36	Bihar	Gaya College of Engineering, Gaya, Sri Krishna Nagar	kailash kumar mahto
37	Bihar	Lok Nayak Jay Prakash Institute of Technology, Chapra	Anshu Sinha
38	Bihar	Motihari College of Engineering, Motihari	KUMAR KAUSHIK RANJAN
39	Bihar	Motihari College of Engineering, Motihari	Utkarsh Raj
40	Bihar	Nalanda College of Engineering, Chandi	Mahesh Kumar
41	Bihar	Nalanda College of Engineering, Chandi, Nalanda	Kuldeep Kumar dwivedi
42	Bihar	Nalanda College of Engineering, Chandi, Nalanda	Avinash Kumar
43	Bihar	Nalanda College of Engineering, Chandi, Nalanda	MD SHAHIR MOLLICK
44	Bihar	Nalanda College of Engineering, Chandi, Nalanda	Raushan Kumar
45	Bihar	Nalanda College of Engineering, Chandi, Nalanda	Digember Kumar
46	Bihar	Nalanda College of Engineering, Chandi, Nalanda	Ashish Kumar Kesarwany
47	Bihar	Nalanda College of Engineering, Nalanda	Gourav Semwal
48	CFI	National Institute of Technology, Calicut	Hiran V Nath
49	CFI	NIT Jamshedpur	Dr. Vijay Kumar Dalla
50	CFI	NIT, Warangal	Dr. Velagapudi Vasu
51	CFI	ZHCET-AMU, Aligarh	Saleem Anwar Khan
52	CFI	National Institute of Technolog Calicut	Gangadhara Kiran Kumar
53	CFI	NIT Meghalaya	Lachireddi
54	CFI	NIT Mizoram	Diptendu Sinha Roy
55	CFI	NIT Mizoram	Pragati Singh
56	CFTI	IIIT Guwahati	Vinay Singh
57	CFTI	IIIT Guwahati	Saranya G Nair
58	CFTI	IIIT Guwahati	Kukil Khanikar
59	CFTI	MANIT Bhopal	Dr. Manojit Ghose
60	CFTI	National Institute of Technology, Arunachal Pradesh	N P Patidar
61	CFTI	NIT Arunachal Pradesh	A Vanav Kumar
62	CFTI	NIT Kurukshetra	Dr. Sahadev Roy
63	CFTI	NIT Sikkim	Gaurav Saini
			Anjan Kumar Ray



1	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Arbind Kumar
2	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Nawal Kishore
3	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Dr. Buddhadeo Mahato
134	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Prasenjit Sarkhel
135	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Shailendra Kumar Sonkar
136	Jharkhand	UCET, Vinoba Bhave University, Hazaribag	Archana Reena Dhan
137	Karnataka	B V B College of Engineering & Technology, Hubli	Jyoti S. Bali
138	Karnataka	B. M. S. College of Engineering, Bengaluru	Selva kumar s
139	Karnataka	Basaveshwar Engineering College Bagalkot	Dr. Vilas Naik
140	Karnataka	Basaveshwar Engineering College, Bagalkot	Veerendrakumar C M
141	Karnataka	Basaveshwar Engineering College, Bagalkot	Chayalakshmi C L
142	Karnataka	Basaveshwar Engineering College, Bagalkot	Rajesh Biradar
143	Karnataka	Basaveshwar Engineering College, Bagalkot	Savita S. Hanji
144	Karnataka	Basaveshwar Engineering College, Bagalkot	Praveen S Challagidat
145	Karnataka	BMS College Of Engineering, Bangalore	R. Ashok Kumar
146	Karnataka	BMS College Of Engineering, Bangalore	Harish V. Mekali
147	Karnataka	BMS College Of Engineering, Bangalore	N. Sandeep Varma
148	Karnataka	BMS College Of Engineering, Bangalore	Chaitanya L
149	Karnataka	BMS College Of Engineering, Bangalore	Kaliprasad C S
150	Karnataka	BMS College Of Engineering, Bangalore	Dr. Veena N. Hegde
151	Karnataka	BVB College of Engineering & Technology, Hubli	Somashekar Patil
152	Karnataka	BVB College of Engineering & Technology, Hubli	Vishal B Pattanashetty
153	Karnataka	BVB College of Engineering & Technology, Hubli	Shamshuddin K
154	Karnataka	BVB College of Engineering & Technology, Hubli	Anil Mallappa Kabbur
155	Karnataka	BVB College of Engineering and Technology	Sachin Karadgi
156	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Spoorthi P A
157	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	NITHYASHREE S
158	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Dr. Yamuna Devi C R
159	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Mohankumar.V.
160	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Madhusudhan M
161	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Anand H D
162	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Kesthara V
163	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Dr. Nandini Prasad K.S
164	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Sujay S.N
165	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Mary Cherian
166	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Vidyaashree c
167	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	B S Sudha
168	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Girija S
169	Karnataka	Dr. Ambedkar Institute of Technology, Bangalore	Umadevi H
170	Karnataka	KLE Technological University, Hubli	Anoopkumar Patil
171	Karnataka	National Institute of Engineering, Mysore	SUHAAS K. P.
172	Karnataka	National Institute of Engineering, Mysore	Shashank S
173	Karnataka	National Institute of Engineering, Mysore	Pradeep Kumar
174	Karnataka	National Institute of Engineering, Mysore	Narender M
175	Karnataka	National Institute of Engineering, Mysore	Shashank Dhananjaya
176	Karnataka	National Institute of Engineering, Mysore	Rajesh.N
177	Karnataka	National Institute of Engineering, Mysore	Shrirang Ambaji Kulkarni
178	Karnataka	PES College of Engineering	Sumanth S
179	Karnataka	PES College of Engineering, Mandya	Revanes M
180	Karnataka	Sri Jayachamarajendra College of Engineering	Sudarshan Patilulkarni
181	Karnataka	Sri Jayachamarajendra College of Engineering, Mysore	Dr. Anil Kumar K M
182	Karnataka	The National Institute of Engineering	Dr. K. Raghuveer
183	Karnataka	The National Institute of Engineering Mysore	M J Yogesh
184	Karnataka	The National Institute of Engineering, Mysore	Chandan J
185	Karnataka	National Institute of Engineering, Mysore	Suhas Bhardwaj .R
186	Madhya Pradesh	Jabalpur Engineering College, Jabalpur	Sanjay Soni
187	Madhya Pradesh	Jabalpur Engineering College, Jabalpur	Garima Tiwari
188	Madhya Pradesh	Jabalpur Engineering College, Jabalpur	Gauri Gupta
189	Madhya Pradesh	Jabalpur Engineering College, Jabalpur	VIJAYAKUMAR M
190	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Vijay Bhuria
191	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	MANOJ KUMAR
192	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Awadhesh Gupta
193	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Mohit Aggarwal
194	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Sayed Faiz Ahmad
195	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Rati Bhan
196	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	LAV UPADHYAY
197	Madhya Pradesh	Madhav Institute of Technology & Science, Gwalior	Sneha Garg







This is DSC Based Payment. PPA generation not applicable

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### PFMS Generated DSC Transaction Payment Advice Report

**Agency Name:** NATIONAL PROJECT IMPLEMENTATION UNIT-[HBTIKNP]

**Debit Bank Name :** PUNJAB NATIONAL BANK

**Bank Account No:** 3702002100031759

**Approval date in PFMS:** 06-Mar-2021

**DSC Signing Date in PFMS:** 06-Mar-2021

**Amount (in Rs.) :** 89,460.00 *(Amount in words : Eighty-Nine Thousand Four Hundred Sixty*

**No. Of Beneficiaries:** 1

**Not to be used by bank for making any payments**

Debit Payment Advice No.: C032104946735

S.N o.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	Mr. DHARMENDRA KUMAR SINGH	C032104946754	XXXXXX326	SBIN00143 26		89,460.00
<b>Total Amount(Rs):</b>						<b>89,460.00</b>

PFMS

.....  
(Sign by Authorized Signatory)

.....  
(Sign by Authorized Signatory)

**Name -** \_\_\_\_\_

**Designation -** \_\_\_\_\_

**Mobile No -** \_\_\_\_\_

**Name -** \_\_\_\_\_

**Designation -** \_\_\_\_\_

**Mobile No -** \_\_\_\_\_

भुगतान आदेशः

दिनांक :

06/03/2021

111

56 / भुगतान आदेश / टेक्यूप-III / एच0बी0टी0यू0 / 2020-21

विश्वविद्यालय के टेक्यूप-III के कम्पोनेट कोड 1.1.2.3 Graduate Employability (future skill training) के अन्तर्गत जिनको भुगतान किया जाना है। उसका विवरण निम्नलिखित है-

S.No	Order No.		Component Code	Name	Amount
1	156-1 /Payment Order/TEQIP-III/HBTU/2020-21	VAUPKS00014812	1.1.2.3	Mr. Dharmendra Kumar Singh, NPIU faculty ET Deptt. For deliver the Lecture on Future skill Technology" Robotics and automation from dt. 16.8.20 to 30.09.20 (Total 142 hrs.) @ 700/- per hrs. =99400	89460
2	156-2 /Payment Order/TEQIP-III/HBTU/2020-21	VAUPKS00014819	1.1.2.3	Dr. Manish Kumar Singh, NPIU faculty ET Deptt. For deliver the Lecture on Future skill Technology" Robotics and automation from dt. 16.8.20 to 30.09.20 (Total 142 hrs.) @ 700/- per hrs. =99400	89460
3	156-3 /Payment Order/TEQIP-III/HBTU/2020-21	VAUKTG00001035	1.1.2.3	Mrs. Nayanica Srivastava, NPIU faculty ET Deptt. For deliver the Lecture on Future skill Technology" Internet of things from dt. 16.8.20 to 11.10.20 (Total 80 hrs.) @ 700/- per hrs. =56000	50400
4	156-4 /Payment Order/TEQIP-III/HBTU/2020-21	VAUPKS00015018	1.1.2.3	10 % advance against ITTDS payment to TEQIP-III a/c.	25480
				<b>Total Amount</b>	<b>254800</b>

68-2020-21-798

799

800

801

अतः उपरोक्त विवरणानुसार सम्बन्धितों को भुगतान उनके सम्मुख इंगित कम्पोनेट कोड के अनुसार किये जाने का आदेश निर्गत किया जाता है।

(रघुराज सिंह)  
कोऑर्डिनेटर, टेक्यूप- III  
एच0बी0टी0यू0, कानपुर

प्रतिलिपि:- निम्नोक्त के सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. विलत नियंत्रक, एच0बी0टी0यू0, कानपुर।

(रघुराज सिंह)  
कोऑर्डिनेटर, टेक्यूप- III  
एच0बी0टी0यू0, कानपुर



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## Syllabus : Robotics and Automation

### ROBOTICS AND AUTOMATION

#### OBJECTIVE

The objective of this course is to impart knowledge about basic mathematics related to industrial robots for their control, design and application in robotics & automation Industries.

#### LEARNING OUTCOMES

After the completion of this course, the students will be able to:

- Perform kinematic and dynamic analyses with simulation.
- Design control laws for a simple robot.
- Integrate mechanical and electrical hardware for a real prototype of robotic device.
- Select a robotic system for given industrial application.

#### DETAIL CONTENTS

##### 1. Introduction to Robotics

- 1.1 Types and components of a robot, Classification of robots,
- 1.2 Kinematics systems; Definition of mechanisms and manipulators, Degrees of Freedom

##### 2. Robot Kinematics and Dynamics

- 2.1 Kinematic Modelling: Translation and Rotation Representation, Coordinate transformation, DH parameters, Forward and inverse kinematics, Jacobian, Singularity, and Statics
- 2.2 Dynamic Modelling: Forward and inverse dynamics, Equations of motion using Euler-Lagrange formulation, Newton Euler formulation

##### 3. Sensors

- 3.1 Sensor: Contact and Proximity, Position, Velocity, Force, Tactile

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

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Day	Name of topic (covered)	Module	Date	Timi ng	Duration (Hours)	Theory (Hours)	Lab (Hours)
1.	Types and components of a robot <ul style="list-style-type: none"> <li>Students understand about basic definition of robot and various components</li> </ul>	I: Introduction to Robotics (18 Hrs.)	16/08/2020	6pm-9pm	3	3	-
2.	Classification of robots <ul style="list-style-type: none"> <li>Various types of robots like kuka, puma and their basic principle of operation explained</li> </ul>		17/08/2020	6pm-9pm	3	3	-
3.	Kinematics systems <ul style="list-style-type: none"> <li>How robots start moving and dependencies over component examined</li> </ul>		18/08/2020	6pm-9pm	3	3	-
4.	Definition of mechanisms and manipulators <ul style="list-style-type: none"> <li>Meaning of manipulators and force and rotation phenomenon explained to the students</li> </ul>		19/08/2020	6pm-9pm	3	3	-
5.	Degrees of Freedom <ul style="list-style-type: none"> <li>Basic meaning of degree of freedom explained and given 2D,3D and 5D of freedom example</li> </ul>		20/08/2020	6pm-9pm	3	3	-
6.	Numerical <ul style="list-style-type: none"> <li>Solved numeric problems based on torque and degree of freedom</li> </ul>		21/08/2020	6pm-9pm	3	3	-
7.	Study components of an industrial robot <ul style="list-style-type: none"> <li>Different components of robots shown to the students and explaining their operations.</li> <li>Also focused on industrial robot components.</li> </ul>	Hardware/ software Experiments/labs (13 Hrs.)	22/08/2020	6pm-9pm	3	-	3
8.	PUMA <ul style="list-style-type: none"> <li>The PUMA (Programmable Universal Machine for Assembly, or Programmable Universal Manipulation Arm) is an industrial robotic arm developed by Victor Scheinman at pioneering robot company Unimation.</li> </ul>		23/08/2020	5pm-9pm	4	-	4
9.	FANUC <ul style="list-style-type: none"> <li>The FANUC Robot series is a series of highly reliable intelligent robots with the sophisticated advanced controller R-30iB with intelligence and networking for versatile applications.</li> </ul>		24/08/2020	6pm-9pm	3	-	3
10.	UR, Etc <ul style="list-style-type: none"> <li>Universal Robots is a Danish manufacturer of smaller flexible industrial collaborative robot arms, based in Odense, Denmark.</li> </ul>		25/08/2020	6pm-9pm	3	-	3



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

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11.	<p>Kinematic Modelling: Translation and Rotation Representation, Coordinate transformation</p> <ul style="list-style-type: none"> <li>• Kinematics pertains to the motion of bodies in a robotic mechanism without regard to the forces/torques</li> <li>• That causes the motion. Since robotic mechanisms are by their very essence designed for motion.</li> <li>• Kinematics is the most fundamental aspect of robot design, analysis, control, and simulation.</li> </ul>	<p>II: Robot Kinematics and Dynamics (12 Hrs.)</p>	26/08/2020	6pm-9pm	3	3	-
12.	<p>DH parameters, Forward and inverse kinematics, Jacobian</p> <ul style="list-style-type: none"> <li>• Explained DH parameters with movement of robotics arm in forward and reverse direction.</li> </ul>		27/08/2020	6pm-9pm	3	3	-
13.	<p>Singularity, and Statics Dynamic Modelling: Forward and inverse dynamics</p> <ul style="list-style-type: none"> <li>• Impact of singularities in the workspace of robots elaborated in detail and given example for forward and reverse kinematics.</li> </ul>		28/08/2020	6pm-9pm	3	3	-
14.	<p>Equations of motion using Euler-Lagrange formulation, Newton Euler Formulation, Forward kinematics and validation using software</p>		29/08/2020	6pm-9pm	3	3	-
15.	<p>Simpler laboratory version of robotic arm having 4 or 5 DOF. Explained four degree and fifth degree of freedom of robotics arm and applying DH parameters during movement.</p>	<p>Hardware/ software Experiments/ labs (4 Hrs.)</p>	30/08/2020	5pm-9pm	4	-	4
<p>#TEQIP MID TERM ASSESMENT (Conducted by SSC NASSCOM on dt. 31/8/2020 from 1:30pm-to-3:30pm)</p>							
16.	<p>Hands on simpler laboratory version of robotic arm having 4 or 5 DOF.</p>	<p>Hardware/ software Experiments/labs (12 Hrs.)</p>	31/08/2020	6pm-9pm	3	-	3
17.	<p>MTAB</p> <ul style="list-style-type: none"> <li>• ARISTO is a 6 axis articulated robotic arm with 2.5kg of payload. ARISTO is offered with pneumatic or vacuum grippers. ARISTO has won the Defence Technology Spin Off award from India Ministry of Defence.</li> </ul>		01/09/2020	6pm-9pm	3	-	3

[Signature]

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

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18.	<b>KUKA-1</b> <ul style="list-style-type: none"> <li>KUKA is a German manufacturer of industrial robots and solutions for factory automation. It has been owned by the Chinese company Midea Group since 2016.</li> </ul>		02/09/2020	6pm-9pm	3	-	3
19.	<b>KUKA-2</b> <ul style="list-style-type: none"> <li>The development and manufacture of spot welding equipment began in 1936. Three years later, KUKA already had more than 1,000 employees. After the major destruction of the company during the Second World War in 1945, KUKA started manufacturing welding machines and other small appliances again.</li> </ul>		03/09/2020	6pm-9pm	3	-	3
20.	<b>Robo Analyser</b> <ul style="list-style-type: none"> <li>Virtual Robot Module, a part of Robo Analyser, has been developed as an application which has joint and Cartesian motion.</li> </ul>		04/09/2020	6pm-9pm	3	-	3
21.	<b>Robo Analyser</b> <ul style="list-style-type: none"> <li>It has also been made as a COM server, using which one can integrate VRM with MATLAB, MS Excel and other applications that has a COM interface. It also has been integrated with Robotics Toolbox for MATLAB by Prof. Peter Corke of QUT, Australia</li> </ul>	Hardware/ software Experiments/labs (8 Hrs.)	05/09/2020	6pm-9pm	3	-	3
22.	<b>Math Lab</b> <ul style="list-style-type: none"> <li>Mathematics laboratory is a place where anybody can experiment and explore patterns and ideas. It is a place where one can find a collection of games, puzzles, and other teaching and learning material.</li> </ul>		06/09/2020	7pm-9pm	2	-	2
23.	<b>Sensor: Contact and Proximity, Introduction to Cameras</b> Camera calibration, Geometry of Image formation		07/09/2020	6pm-9pm	3	3	-
24.	<b>Position, Velocity Euclidean/Similarity/Affin Projective Transformations</b>	<b>III: Sensors</b> (9 Hrs.)	08/09/2020	6pm-9pm	3	3	-
25.	<b>Force, Tactile etc.</b> Vision applications in robotics <ul style="list-style-type: none"> <li>Students understand different application of robots like defense application using robot vision</li> </ul>		09/09/2020	6pm-9pm	3	3	-
26.	<b>Inverse kinematics of an industrial robot and validation using any open source software.</b> <ul style="list-style-type: none"> <li>Transformation of coordinate when movement happens inside robotics arm explained.</li> </ul>		10/09/2020	6pm-9pm	3	-	3



# Online Future Skill Training on “Robotics & Automation” Lecture Delivery Plan (LDP)

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27.	<p>Simpler laboratory version of robotic arm</p> <ul style="list-style-type: none"> <li>Arm movement of robots perform on rob analyser and seen rotational matrix chngement.</li> </ul>	Hardware/ software Experiments/labs (6 Hrs.)	11/09/2020	6pm- 9pm	3	-	3
28.	<p>Actuators: Pneumatic</p> <ul style="list-style-type: none"> <li>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</li> </ul>	IV: Robot Actuation Systems (10 Hrs.)	12/09/2020	5pm- 9pm	4	4	-
29.	<p>Transmission: Gears, Timing Belts and Bearings</p> <ul style="list-style-type: none"> <li>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.</li> </ul>		13/09/2020	6pm- 9pm	3	3	-
30.	<p>Parameters for selection of actuators</p> <ul style="list-style-type: none"> <li>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</li> </ul>		14/09/2020	6pm- 9pm	3	3	-
31.	<p>Industrial Robot programming using VAL II or equivalent / simpler laboratory version of robotic arm.</p>	Hardware/ software Experiments/labs (9 Hrs.)	15/09/2020	6pm- 9pm	3	-	3
32.	<p>DH parameters</p> <ul style="list-style-type: none"> <li>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.</li> </ul>		16/09/2020	6pm- 9pm	3	-	3





# Online Future Skill Training on "Robotics & Automation"

## Lecture Delivery Plan (LDP)

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33.	DH parameters <ul style="list-style-type: none"> <li>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 <math>n</math> links form the kinematics equations of the robot</li> </ul>		17/09/2020	6pm-9pm	3	-	3
34.	Basics of control: open loop- closed loop Transfer functions <ul style="list-style-type: none"> <li>Basic controlling system of robotics explained and understands impact of open and closed loop transfer function.</li> </ul>	V: Robot Control (7 Hrs.)	18/09/2020	5pm-9pm	4	4	-
35.	Control laws: P, PD, PID Linear and Non-linear controls <ul style="list-style-type: none"> <li>Use of : P, PD, PID controllers inside robotics arm movement explained</li> </ul>		19/09/2020	6pm-9pm	3	3	-
36.	Microcontroller lab – programming (free software /open source) <ul style="list-style-type: none"> <li>Application of PIC microcontroller inside robotics explained.</li> </ul>	Hardware/ software Experiments/labs (10 Hrs.)	20/09/2020	5pm-9pm	4	-	4
37.	Actuators: Electric, Hydraulic		21/09/2020	6pm-9pm	3	-	3
38.	Research related experiment in AI e.g. multi agent system, unmanned systems control using ROS, etc.		22/09/2020	6pm-9pm	3	-	3
39.	Embedded systems: Microcontroller Architecture and integration with sensors actuators, components programming	VI: Control Hardware and Interfacing (6 Hrs.)	23/09/2020	6pm-9pm	3	3	-
40.	Applications for Industrial robot - programming in – VAL II		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	-	3
42.	Applications in unmanned systems, Defense, medical, industries, etc.	VII: AI in Robotics, Industrial robotics & safety (9 Hrs.)	26/09/2020	6pm-9pm	3	3	-
43.	Robotics and Automation for Industry 4.0.		27/09/2020	6pm-9pm	3	3	-



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

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44.	Robot safety and social robotics		28/09/2020	6pm-9pm	3	3	-
45.	Control 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 (6 Hrs.)	29/09/2020	6pm-9pm	3	-	3
46.	Small group project work relevant to Industrial automation.		30/09/2020	6pm-9pm	3	-	3
<b>Total</b>					142	71	71
##TEQIP FINAL ASSESMENT (Conducted by SSC NASSCOM on dt.19/12/2020 from 02:00pm- to-04:00pm)							

*[Handwritten Signature]*

*[Handwritten Signature]*  
Signature of Faculty/Trainer  
(Dharmendra Kumar Singh)

$$\begin{array}{r} 71 \text{ HRS} \\ 71 \text{ HRS} \\ \hline 142 \text{ HRS} \end{array} \times 700 = 99,400 = \text{₹}$$

Passed for Payment of ₹ = 99,400 = ₹  
(Ninty nine thousand four hundred only)

*[Handwritten Signature]*  
Coordinator, TEQIP-II  
₹



16

Batch II: Robotics & Automation						No of Students: 57
Email	Name of Student	Year	Branch	Roll No	Contact Number	Training Area
170107001@hbtu.ac.in	Abhinandan mishra	III BTech	Food Technology	170107001	8756043539	Robotics and Automation
180205002@hbtu.ac.in	Aditya Kumar	II MTech	Electronics Engg.	180205002	9118211793	Robotics and Automation
190103006@hbtu.ac.in	Aditya Mishra	I BTech	Chemical Engg	190103006	7880944447	Robotics and Automation
190108005@hbtu.ac.in	Aditya Pratap Singh	I BTech	Information Tech.	190108005	8896335577	Robotics and Automation
180110010@hbtu.ac.in	Akshay Kumar Singh	II BTech	Mechanical Engg.	180110010	6387690292	Robotics and Automation
170101002@hbtu.ac.in	Aman Gutpa	III BTech	Bio-Chemical Engg.	170101002	8052956062	Robotics and Automation
180107007@hbtu.ac.in	Aman Kumar	II BTech	Food Technology	180107007	8299225691	Robotics and Automation
180107009@hbtu.ac.in	Aman Kumar singh	II BTech	Food Technology	180107009	8318514180	Robotics and Automation
170101003@hbtu.ac.in	Aman Pal	III BTech	Bio-Chemical Engg.	170101003	7460982278	Robotics and Automation
190107008@hbtu.ac.in	Anand umrao	I BTech	Food Technology	190107008	6392869835	Robotics and Automation
180101008@hbtu.ac.in	Ankish Verma	II BTech	Bio-Chemical Engg.	180101008	9140867058	Robotics and Automation
170109007@hbtu.ac.in	Ankit Kashyap	III BTech	Leather Technology	170109007	6388395113	Robotics and Automation
180106004@hbtu.ac.in	Anmol Gupta	II BTech	Electronics Engg.	180106004	6306867215	Robotics and Automation
190205005@hbtu.ac.in	Aparna Pandey	II BTech	Electronics Engg.	190205005	6306447912	Robotics and Automation
170101004@hbtu.ac.in	Apurva yadav	III BTech	Bio-Chemical Engg.	170101004	7068787809	Robotics and Automation
190101008@hbtu.ac.in	Asmita Gupta	I BTech	Bio-Chemical Engg.	190101008	7054329950	Robotics and Automation
180205005@hbtu.ac.in	Avani Kesarwani	II MTech	Electronics Engg.	180205005	8800677998	Robotics and Automation
190205006@hbtu.ac.in	Ayush Tiwari	II BTech	Chemical Engg.	190205006	8840105421	Robotics and Automation
180110027@hbtu.ac.in	Deepak Kumar	II BTech	Mechanical Engg.	180110027	6398936260	Robotics and Automation
180110028@hbtu.ac.in	Deepika Juneja	II BTech	Computer Science & E	180110028	7599332352	Robotics and Automation
190103021@hbtu.ac.in	Devanshi Tiwari	I BTech	Chemical Engg.	190103021	9580887859	Robotics and Automation
190205008@hbtu.ac.in	Dhananjay Chauhan	I MTech	Electronics Engg.	190205008	9450065724	Robotics and Automation
180103016@hbtu.ac.in	Garvit Gera	II BTech	Chemical Engg.	180103016	63934588832	Robotics and Automation
190205009@hbtu.ac.in	Harshit Bhargava	I MTech	Electronics Engg.	190205009	9838597907	Robotics and Automation
190103026@hbtu.ac.in	Hrithik Seth	I BTech	Chemical Engineering	190103026	7460986750	Robotics and Automation
180103019@hbtu.ac.in	Jatin Gupta	II BTech	Chemical Engg.	180103019	8090938500	Robotics and Automation
190105019@hbtu.ac.in	Jyoti	I BTech	Electrical Engg.	190105019	9369622763	Robotics and Automation
180110036@hbtu.ac.in	K.m. Sneha	II BTech	Mechanical Engg.	180110036	8439922790	Robotics and Automation
180107017@hbtu.ac.in	Kushagra Srivastava	II BTech	Food Technology	180107017	7849827319	Robotics and Automation
190106022@hbtu.ac.in	lakshaya narang	I BTech	Electronics Engg.	190106022	8791216477	Robotics and Automation
180112015@hbtu.ac.in	Manya Pandey	II BTech	Electronics Engg.	180112015	6393227629	Robotics and Automation
180101021@hbtu.ac.in	Mohd Tanzeel	II BTech	Bio-Chemical Engg.	180101021	9170722587	Robotics and Automation
180106021@hbtu.ac.in	Muskan Dubey	II BTech	Electronics Engg.	180106021	9129176677	Robotics and Automation
190106029@hbtu.ac.in	Piyush Chaudhary	I BTech	Electronics Engg.	190106029	6394024817	Robotics and Automation
190106030@hbtu.ac.in	Piyush Rajput	I BTech	Electronics Engg.	190106030	6395250473	Robotics and Automation
180205008@hbtu.ac.in	Pooja Nishad	II MTech	Electronics Engg.	180205008	8081212957	Robotics and Automation
190205012@hbtu.ac.in	Prabha Kumari	I MTech	Electronics Engg.	190205012	8429198697	Robotics and Automation
180205009@hbtu.ac.in	Prakhar Kumar Sonkar	I MTech	Electronics Engg.	180205009	9044587161	Robotics and Automation
180106026@hbtu.ac.in	Priyanshi Omer	II BTech	Electronics Engg.	180106026	9616201717	Robotics and Automation
190106033@hbtu.ac.in	Rajarshi Tiwari	I BTech	Electronics Engg.	190106033	8840468477	Robotics and Automation
180106029@hbtu.ac.in	Richa Singh	II BTech	Electronics Engg.	180106029	8318538099	Robotics and Automation
190105029@hbtu.ac.in	Samana Butool	I BTech	Electrical Engg.	190105029	6388219576	Robotics and Automation
190105035@hbtu.ac.in	shubhi	I BTech	Electrical Engg.	190105035	7808030810	Robotics and Automation
180205017@hbtu.ac.in	Sonal yadav	II MTech	Electronics Engg.	180205017	7052163458	Robotics and Automation
190205015@hbtu.ac.in	Srishti gupta	I MTech	Electronics Engg.	190205015	9140675183	Robotics and Automation
170101026@hbtu.ac.in	Subhash Chandra Verm	II BTech	Bio-Chemical Engg	170101026	7398658912	Robotics and Automation
190103057@hbtu.ac.in	Suharsh Mahajan	I BTech	Chemical Engg.	190103057	9305045825	Robotics and Automation
190108037@hbtu.ac.in	Tarun Singh	I BTech	Information Tech.	190108037	8318149800	Robotics and Automation
180106047@hbtu.ac.in	Upagyya Dixit	II BTech	Electronics Engg.	180106047	9935685535	Robotics and Automation
190103060@hbtu.ac.in	Utkarsh Azad	I BTech	Chemical Engg.	190103060	8960019693	Robotics and Automation
180110057@hbtu.ac.in	Utkarsh Pal	II BTech	Mechanical Engg.	180110057	7651857146	Robotics and Automation
180205016@hbtu.ac.in	Vaibhav gupta	II BTech	Electronics Engg.	180205016	6394427828	Robotics and Automation
180109013@hbtu.ac.in	Vinod paswan	II BTech	Leather Technology	180109013	9554721972	Robotics and Automation
170109018@hbtu.ac.in	Yash Kumar Singh	IV B.TECH	Leather Technology	170109018	6387787916	Robotics and Automation
190106027@hbtu.ac.in	Monali Chakraborty	II BTech	Electronics Engg.	190106027	74598 39290	Robotics and Automation
180103013@hbtu.ac.in	Aviral Gupta	III B Tech	Chemical Engg.	180103013	9454748424	Robotics and Automation
170107014@hbtu.ac.in	Krishna Katiyar	II BTech	Food Technology	170107014	8840014634	Robotics and Automation

Dr. Rashuendra Singh  
 Co-ordinator "Future Technologies"  
 Skill



# Online Future Skill Training on "Robotics & Automation"

## ATTENDANCE SHEET

Batch: 2

Date: 17/08/2020

Time: 3 hours (6PM - 9PM)

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	17/8/2020
8/17/2020 18:51:56	Piyush Rajput	190106030	ET	17/8/2020
8/17/2020 19:03:12	Aman Kumar	180107007	Food Technology	17/8/2020
8/17/2020 19:10:21	Monali Chakraborty	190106027	Electronics	17/8/2020
8/17/2020 19:15:35	Deepika Juneja	180110028	Computer Science and Engineering	17/8/2020
8/17/2020 19:21:49	HRITHIK SETH	190103026	CHE	17/8/2020
8/17/2020 19:27:11	Devanshi Tiwari	190103021	Chemical engineering	17/8/2020
8/17/2020 19:33:32	Upagyya Dixit	180106047	3rd ET	17/8/2020
8/17/2020 19:40:53	Km. Sneha	180110036	Mechanical engineering	17/8/2020
8/17/2020 19:47:09	Richa Singh	180106029	ET	17/8/2020
8/17/2020 19:54:19	JYOTI	190105019	Electrical engineering	17/8/2020
8/17/2020 19:59:39	Km. Sneha	180110036	Mechanical engineering	17/8/2020
8/17/2020 20:17:53	Abhinandan mishra	170107001	Final btech food technology	17/8/2020
8/17/2020 20:20:17	Utkarsh Azad	190103060	Chemical Engineering	17/8/2020
8/17/2020 20:27:25	srishti gupta	190205015	Electronic and communication	17/8/2020
8/17/2020 20:38:38	aparna pandey	190205005	ec	17/8/2020
8/17/2020 20:45:01	srishti gupta	190205015	electronic and communication	17/8/2020
8/17/2020 20:52:41	Priyanshi Omer	180106026	Electronics	17/8/2020

*[Signature]*

*[Signature]*

*[Signature]*

# Online Future Skill Training on "Robotics & Automation" ATTENDENCE SHEET

97

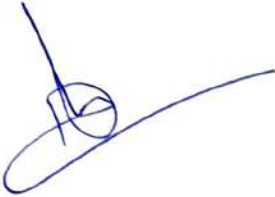
Date: 17/08/2020

Time: 3 hours (6PM-9PM)

Batch: 2

8/17/2020 20:57:16	Apurva yadav	170101004	BE	17/8/2020
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24





# Online Future Skill Training on "Robotics & Automation" ATTENDANCE SHEET

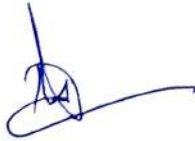
Batch: 2

Date: 29/09/2020

Time: 3 hours (6pm-9pm)

Day 45: 29 Sept 2020

Timestamp	Name	Roll no	Branch	Date
9/29/2020 18:11:40	Jatin Gupta	180103019	Chemical Engineering	29/9/2020
9/29/2020 18:17:59	JYOTI	190105019	Electrical engineering	29/9/2020
9/29/2020 18:28:12	Tarun Singh	190108037	Information Technology	29/9/2020
9/29/2020 18:37:48	Yash Kumar Singh	170109018	Leather Technology	29/9/2020
9/29/2020 18:52:05	Dhananjay Chauhan	190205008	Electronics Engineering	29/9/2020
9/29/2020 19:14:33	Aman Kumar	180107007	Food Technology	29/9/2020
9/29/2020 19:22:48	Piyush Rajput	19106030	ET	29/9/2020
9/29/2020 19:35:57	Deepika Juneja	180110028	Computer Science and Engineering	29/9/2020
9/29/2020 19:44:07	HRITHIK SETH	190103026	CHE	29/9/2020
9/29/2020 20:15:13	Devanshi Tiwari	190103021	Chemical engineering	29/9/2020
9/29/2020 20:28:09	Upagyya Dixit	180106047	3rd et	29/9/2020
9/29/2020 20:42:16	Monali Chakraborty	190106027	Electronics	29/9/2020
9/29/2020 20:53:35	Km. Sneha	180110036	Mechanical engineering	29/9/2020
9/29/2020 20:58:55	Richa Singh	180106029	ET	29/9/2020



# Online Future Skill Training on "Robotics & Automation"

## ATTENDANCE SHEET

53

Date: 30/09/2020

Time: 3 hours (6pm-9pm)

Batch: 2

Day 46: 30 Sept 2020

Timestamp	Name	Roll no	Branch	Date
9/30/2020 18:16:47	Utkarsh Azad	190103060	Chemical Engineering	30/9/2020
9/30/2020 18:27:55	JYOTI	190105019	Electrical engineering	30/9/2020
9/30/2020 18:38:04	Tarun Singh	190108037	Information Technology	30/9/2020
9/30/2020 18:49:26	Yash Kumar Singh	170109018	Leather Technology	30/9/2020
9/30/2020 18:55:39	Dhananjay Chauhan	190205008	Electronics Engineering	30/9/2020
9/30/2020 19:19:59	Aman Kumar	180107007	Food Technology	30/9/2020
9/30/2020 19:31:15	Piyush Rajput	19106030	ET	30/9/2020
9/30/2020 19:46:30	Deepika Juneja	180110028	Computer Science and Engineering	30/9/2020
9/30/2020 19:52:45	HRITHIK SETH	190103026	CHE	30/9/2020
9/30/2020 19:58:57	Devanshi Tiwari	190103021	Chemical engineering	30/9/2020
9/30/2020 20:11:07	Upagyya Dixit	180106047	3rd et	30/9/2020
9/30/2020 20:23:19	Monali Chakraborty	190106027	Electronics	30/9/2020
9/30/2020 20:37:52	Km. Sneha	180110036	Mechanical engineering	30/9/2020
9/30/2020 20:42:01	Richa Singh	180106029	ET	30/9/2020
9/30/2020 20:49:25	Abhinandan mishra	170107001	Final btech food technology	30/9/2020
9/30/2020 20:53:45	Jatin Gupta	180103019	Chemical Engineering	30/9/2020
9/30/2020 20:56:10	aparna pandey	190205005	ec	30/9/2020



आंकड़ों। किलो एवं गैरकठिना स. टोप

कृपया संलग्न प्रकाश में निम्नलिखित कार्यवाही

विषयों का अभिप्रेत है

1. Mrs. Vyakta Vikas Kendra India के बिल में @ Lakshmi / चारों अनुमोदित वी. सुची में प्रति संलग्न तारीखें इसके कतिपय 5-8-19 से 10-8-19 तक 7 batches की classes हुई है। जिसे प्रति दिन के दिनांक से 6 घंटे की दस्तावेजी सूची संलग्न कि करवा उचित होगा।
2. माननीय कुलपति का प्रति में गैर अनुमोदन की दायर प्रति संलग्न करके का उचित करें।
3. प्रस्ताव विना नो व प्रमाणों के अंतिम है।
4. जिसे Vaidyanathan नदी संलग्न प्रमाणों का उचित करें। कृपया उपरोक्त कार्यवाही पूर्ण करके इसे सुचारु हेतु प्रेषित करके का उचित करें।

Rohit  
06-11-19  
(संलग्न कार्य)  
प्रो. प्रो. लोखा

[Signature]  
6-11-19  
(एस.ए.एम.आर.)  
आचार्य संपरीक्षक

[Signature]  
6-11-19  
Nodal Officer Finance TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

DSCW  
[Signature]  
Coordinator TEQIP  
Harcourt Butler Technical  
Kanpur-208002

Received  
at 5.15 PM.  
9/11/19

DSCW  
dura.

Convenor NSS Sub-council / Coordinator Human values

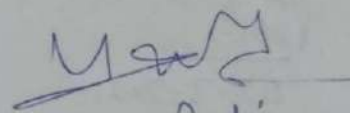
for n. a. please at the earliest  
[Signature]  
15/11/19  
DSCW

DSW / Co-ordinator TEQIP

1054 / USAE / 6/2 / 2020

Please find the details which are required by Account office for further processing in this matter.

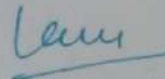
1. NPIU approval for M/S Vyakti Vikas Kendra India, along with attendance sheet of batches of class.
2. Photocopy of approval of Hon'ble Vice Chancellor against the proposal.
3. proposal Number & Date is mentioned.
4. All tender papers are attached with this letter.

  
Prithvi Pati  
Co-ordinator Human Values  
(SELP)

1077 / USAE / 27/2 / 2020

Coordinator TEQIP-II

For n.a. lot.

  
27/02/2020  
DSW

NOF

  
28.02.2020  
Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002



आरंभ। विरले एवं नो आविर्भाव / श्री प्रदीप कर्मा /  
(HOD Civil)

द्वारा संलग्न प्रस्ताव में हाट्टों की उपस्थिति में

को Art of lining को कोआर्डीनेट के हाट्टों की समस्त उपस्थिति  
की शीट का एनालाइसिस एवं प्रमाणित करने का कार्य करे।  
जिससे सुरक्षा की अतिवृत्त बर्धन (वर्क) को जो (नये) उपस्थिति  
की शीट में दिनांक 3-8-2019 से 9-8-2019 अभिप्रेत है। जब कि  
Bill में दिनांक 5-8-19 से 10-8-19 अभिप्रेत है। उपर्युक्त कार्य  
अभिसूचित है। पत्रावली मूल रूप में प्राप्त। तथा बिना डाटा के  
नहीं।

02-3-2020

(रजत लाल)  
प्रधान लेखी

(एलकेएम)  
आंतरिक संपर्क

Nodal Officer Finance TEQIP-III  
वित्त एवं लेखाधिकारी  
Harcourt Butler Technical University  
Kanpur-208002

Mr. Pradipta Karmali

for n-a-pi

02/03/2020

वित्त एवं लेखाधिकारी

द्वारा आपके द्वारा उपरोक्त शीट के अंत में वांछित बिना डाटा की सूची  
लिख कर संशोधन के पत्रावली पुनः प्राप्त। तथा बिना मूल रूप के पत्रावली के वांछित  
वर्क संलग्न कर आपके आलोचनात्मक एवं आगे लक्ष्य कार्य के लिए  
उचित-

प्रदीप

01/02/2021

01.02.2021

Sunil Kumar

आरंभ। विरले एवं नो आविर्भाव / श्री प्रदीप कर्मा /  
द्वारा संलग्न प्रस्ताव में हाट्टों की उपस्थिति में

को आरंभ। विरले एवं नो आविर्भाव

01-2-2021  
(रजत लाल)  
प्रधान लेखी

वित्त एवं लेखाधिकारी

वित्त निदेशक

Pradipta Karmali

Co-ordinator TEQIP III

अध्यक्ष के कार्यालय में परीक्षाओं की परीक्षाओं के आयोजन माध्यम से  
प्रेषित।

प्रमुख  
04/02/2021

*(Signature)*  
04.02.2021  
(Sunil Kr.)  
Ex DSW

Law  
04/02/2021  
(Prof. Ram Naresh)  
Dean Students Welfare/Chairman, VSDC  
Harcourt Butler Technical University  
KANPUR-208002

*(Signature)*

4.2.2021  
Coordinator TEQIP-III  
Harcourt Butler Technical University  
Kanpur-208002

FIAO/  
*(Signature)*  
4/2/21



अक्र.सं०/वि०लेखों नो०अ० वि० टिप्पण्युप-III

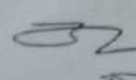
अज्ञान एवं अंधविश्वासों को दूर करने के लिए 02-3-2020 को अज्ञानोपशान कार्यक्रम का आयोजन किया गया। पत्रावली दिनांक 01-2-2021 को परम सहायक को प्राप्त हुई, उक्त के बुद्धिगम विद्यापीठालय से हम-हमको है। Induction Programme का तैयार योगदान व्यर्थ दिनांक 3-8-2019-9-8-2019 तक संपन्न कराया गया था, जिसमें part of living के Expert कोश योगदान का कार्य पूरा किया गया है। निम्नलिखित अनुदान (Honourarium and TA/DA) का विवरण निम्नलिखित है।

1. Mr. V. V. V. Vikasendra, India, Bangalore	Rs = 21000 = 00
2. Mr. Rakob Ranjan Bharama, Expert Yoga TA/DA	Rs = 4060 = 00
3. Ms. Kralika Jatin, Expert Yoga TA/DA	Rs = 1185 = 00
4. Ms. Sweta Upadhyay, Expert Yoga TA/DA	Rs = 1516 = 00
5. Mr. Shashi Kant, Expert Yoga TA/DA	Rs = 4095 = 00
6. Mr. Pratham Mahich, Expert Yoga TA/DA	Rs = 7062 = 00
7. Mr. Gaurav Singh Chauhan, Expert Yoga TA/DA	Rs = 8441 = 00

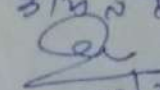
सहायता की पेशा में बिलों का परीक्षणोपरांत ~~हस्ताक्षर~~ के साथ

दिनांक 2020-21 में आयोजित कोड 1.1.2.1 Improve Student Learning के तहत से रु० 236359 = 00 (दो लाख त्रिसहस्र पचास बीस रुपये) का अनुदान विशेषज्ञों की विभिन्न एवं प्रशासकीय अनुदानों पर विद्या विद्या जा सक्ता है।

Phal  
06.2.2021  
(रजनी लाल)  
प्रधान लेखा

  
0-2-21  
(प्रबन्धक/मित्री)  
वित्तियक संपरीक्षक

वित्त नियन्त्रक से  
रुपय छह हजार 986  
छह पचास 56 रु तहस्र  
दोनों में उपस्थिति का  
भावलेखन करना चाहिए।  
अगर सहमत हो तो प्रशासन के  
समन्वय में विचार करना  
चाहिए। अं  
0-2-21

वित्तियक संपरीक्षक  
रु० अज्ञान का दूर करने के लिए  
अज्ञानोपशान कार्यक्रम, विद्या  
विद्या कोशिका।  
  
10/2/21  
वित्त नियन्त्रक

अज्ञानोपशान कार्यक्रम  
अज्ञानोपशान कार्यक्रम

Coordinator, SELP

For the needful please

10.02.2021

Coordinator TEQIP-III

Harcourt Butler Technical University

Kanpur-208002

समन्वयक TEQIP-III

कृपया उपरोक्त वीप के क्रम में आगत पत्रों के विषय में पृष्ठ 48 से पृष्ठ 56 तक संलग्न द्वाारा से उपस्थिति कोष (Coord. Human values activities एवं तत्कालीन DSW द्वारा सत्यापित है। और यह उपस्थितियों कार्यक्रम के समय ही ली गयी थी। इसलिए अब इनके स्व स्वगत में कोई परिवर्तन सम्भव नहीं है। कार्यक्रम सुचारु रूप से संचालित हुआ है एवं द्वाारा द्वारा ईमेल उत्सर्ग पूर्ण प्रतिभाग किया गया है। अतः अनुरोध है कि उक्त सुगतान जिसका उल्लेख मोर सीए पृष्ठ 5 पर है, की शीघ्रता से वापस

पूजा  
Coordinator  
Human values  
21-02-2021

11.02.2021  
D.S.W

1087/USAC/11/02/2021  
1087/USAC/11/02/2021

FC

11.02.2021

Coordinator TEQIP-III

Harcourt Butler Technical University

Kanpur-208002

R.L  
12.2.21  
F980  
12/2/21





No. ~~298~~ Dated 23-Feb-2021

Bill No - 148/TEQIP-III/2020-21

Particulars	Debit	Credit
Vyakti Vikas Kendra INDIA	Dr 1,89,000.00	
RAKESH RANJAN BHARMAR	Dr 4,060.00	
Kritika Jain Expert	Dr 1,185.00	
Sweta Upadhyay Expert	Dr 1,516.00	
Shashi Kant (Math)	Dr 4,095.00	
Preetam Mahich	Dr 7,062.00	
Gaurav Singh Chauhan	Dr 8,441.00	
IT TDS 10% Transfer to TEQIP A/c	Dr 21,000.00	

To Cash & Cash Equivalents 2,36,359.00

On Account of :

being amount paid against  
bill no 148/2020-21

₹ 2,36,359.00      ₹ 2,36,359.00

~~Authorized Signatory~~



सख्या: 205

/ भुगतान आदेश / टेकियूप-III / एच0बी0टी0यू0 / 2020-21

भुगतान आदेश:

दिनांक : 23/03/2021

85

उसका विवरण निम्नलिखित है-  
के टेकियूप-III के कम्पोनेट कोड 1.1.2.3 Graduate Employability (future skill training) के अन्तर्गत जिनको भुगतान किया जाना है।

S.No	Order No.	Component Code	Name	Amount
1	205-1 /Payment Order/TEQIP-III/HBTU/2020-21	VAJHRA00006734	Dr. Shashikant , NPIU faculty Math Deptt. For deliver the Lecture on Future skill "Technology" Data Science & Analytics from dt. 18.9.20 to 4.10.20 (Total 60 hrs.)@ 700/- per hrs. =42000	37800
2	205-2 /Payment Order/TEQIP-III/HBTU/2020-21	VAUPKS00015018	10 % advance against ITTDS payment to TEQIP-III a/c	4200
<b>Total Amount</b>				<b>42000</b>

अतः उपरोक्त विवरणानुसार सम्बन्धित को भुगतान उनके सम्मुख इंगित कम्पोनेट कोड के अनुसार किये जाने का आदेश निर्गत किया जाता है।

(रघुराज सिंह)

कोआर्डिनेटर, टेकियूप- III  
एच0बी0टी0यू0, कानपुर

प्रतिलिपि:- निम्नोक्त के सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. वित्त नियंत्रक, एच0बी0टी0यू0, कानपुर।

(रघुराज सिंह)

कोआर्डिनेटर, टेकियूप- III  
एच0बी0टी0यू0, कानपुर





# Lecture Delivery Plan: "Data Science and Analytics"

**Duration:** 68 hours




**Batch-1**

**Morning:** 8:30AM to 9:30 AM (1 hour)

**Evening:** 6:30 PM to 9:30 PM (3 hours)

**Faculty Mentor:** Dr. Shashi Kant, Assistant Professor (TEQIP-III), Department of Mathematics.

S. No	Module	Curriculum	Date	Morning Session		Evening Session		
				Theory	Lab	Theory	Lab	
1.	I: Introduction to Data Science (Theory: 1 hour)	<ul style="list-style-type: none"> <li>Introduction</li> <li>Concept of Data Science</li> <li>Why/When/What Data Science</li> </ul>	18-09-2020	1 hour	----- ✓	1 hour	-----	
2.	II: Programming Tools for Data Science (Lab: 6 hours)	<ul style="list-style-type: none"> <li>Basics of Python</li> </ul>		---	-----	-----	2 hours	
		<ul style="list-style-type: none"> <li>Toolkits using Python: Matplotlib, NumPy, Scikit-learn, NLTK</li> <li>Visualizing Data: Bar Chart, Line Charts, Scatter Plot</li> </ul>	19-09-2020	----- ✓	1 hour	----- ✓	3 hours	
		<ul style="list-style-type: none"> <li>Working with data: Reading Files, Scraping the Wave.</li> <li>Using APIs, Cleaning and Mugging</li> </ul>		----- ✓	1 hour	----- ✓	1 hour	
3.	III: Mathematical Foundations ( Theory: 12 hours)	<ul style="list-style-type: none"> <li>Linear Algebra: Vectors and Matrices</li> <li>Matrix Operations and Some Properties</li> </ul>	20-09-2020	-----	-----	2 hours	-----	
		<ul style="list-style-type: none"> <li>Basics of Multivariate Calculus</li> <li>Applications</li> </ul>						
		<ul style="list-style-type: none"> <li>Statistics: Describing a Single Set of Data,</li> <li>Correlation, Simpson's Paradox,</li> <li>Correlation and Causation</li> </ul>	21-09-2020	✓	1 hour	-----	3 hours	-----
		<ul style="list-style-type: none"> <li>Optimization: Unconstrained, Constrained,</li> <li>Optimization: KKT Conditions</li> <li>Probability: Random Variables, Baye's Theorem, Distributions, Normal Distributions</li> </ul>	22-09-2020	✓	1 hour	-----	3 hours	-----

# Lecture Delivery Plan: "Data Science and Analytics"

		<ul style="list-style-type: none"> <li>• Central Limit Theorem, Sampling</li> <li>• Hypothesis and Inference: Statistical</li> <li>• Hypothesis Testing, Confidence Intervals, Bayesian Inference</li> </ul>	23-09-2020	✓ 1 hour	-----	✓ 3 hours	-----
4.	IV: Machine Learning (Theory: 25 hours Lab: 10 hours)	<ul style="list-style-type: none"> <li>• Introduction to Machine Learning</li> <li>• Overview: Bias/Variance, Over Fitting and Train/Test Splits</li> </ul>	24-09-2020	✓ 1 hour	-----	✓ 1 hour	✓ 2 hours
		<ul style="list-style-type: none"> <li>• Types of Machine Learning: Discussion of Supervised</li> <li>• Discussion of Unsupervised, Semi Supervised Learning.</li> </ul>	25-09-2020	✓ 1 hour	-----	✓ 1 hour	✓ 2 hours
		<ul style="list-style-type: none"> <li>• Classifications and Regression Algorithms-Naïve Bayes.</li> <li>• K-Nearest Neighbors, Logistic Regression</li> <li>• Support Vector Machines (SVM)</li> </ul>	26-09-2020	✓ 1 hour	-----	✓ 1 hour	✓ 2 hours
		<ul style="list-style-type: none"> <li>• Decision Trees and Induction Rules.</li> <li>• Hidden Markov Models</li> <li>• Metrics: Source Code, Development, Testing,</li> <li>• Bayes Theorem in Machine Learning</li> </ul>	27-09-2020	✓ 1 hour	-----	✓ 1 hour	✓ 2 hours
		<ul style="list-style-type: none"> <li>• Linear Regression-Model Assumptions.</li> <li>• Regularizations: Lasso, Ridge, Elastic Net</li> <li>• Statistical and Bayesian Inference View Point</li> </ul>	28-09-2020	-----	✓ 1 hour	✓ 2 hours	✓ 1 hour
		<ul style="list-style-type: none"> <li>• Time Series: Introduction and Utility</li> <li>• Components of Time Series</li> <li>• Methods of Measuring Trend</li> </ul>	29-09-2020	-----	✓ 1 hour	✓ 2 hours	✓ 1 hour
		<ul style="list-style-type: none"> <li>• Bagging and Boosting</li> <li>• Balance Bias and Variance</li> <li>• Random Forest</li> </ul>	30-09-2020	✓ 1 hour	-----	✓ 2 hours	✓ 1 hour

*Shahid Khat*  
*SB*

*Rad*



40

# Lecture Delivery Plan: "Data Science and Analytics"

		<ul style="list-style-type: none"> <li>● Overview of Deep Learning</li> <li>● Neural Networks-Learning and Generalizations</li> </ul>	01-10-2020	1 hour	-----	2 hours	1 hour
		<ul style="list-style-type: none"> <li>● Unsupervised Learning</li> <li>● K-Means</li> <li>● Hierarchical Clustering</li> </ul>	02-10-2020	1 hour	-----	2 hours	1 hour
		<ul style="list-style-type: none"> <li>● Reinforcement Learning</li> </ul>	03-10-2020	1 hour	-----	-----	1 hour
5.	V: Case Studies of Data Science, Applications and Project (Theory: 2 hours Lab: 4 hours)	<ul style="list-style-type: none"> <li>● Case study on Weather Forecasting</li> </ul>	03-10-2020	-----	-----	-----	2 hours
		<ul style="list-style-type: none"> <li>● Case Study: Application on Stock Market Production</li> <li>● Case Study: Application on Real Time Sentiment Analysis</li> <li>● Object Recognition</li> </ul>	04-10-2020	1 hour	-----	1 hour	2 hours
<b>Total Time:</b>			68	13	4	27	24
<b>Total Theory:</b>		40 hours(13+27)		<b>Total Lab:</b>		28 hours(4+24)	

The following programs have been discussed during the Lab sessions:  $60 \times 700 = 42000$

1. Program to implement a k-fold cross validation split of your data.
2. Program to implement in Python the linear regression for a sample training data set stored as a .CSV file.
3. Program to implement in Python the logistic regression for a sample training data set stored as a CSV file.
4. Program to demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample.
5. Program to implement k-Nearest Neighbor algorithm to classify the iris data set. Calculate the accuracy, precision, and recall for your data set.
6. Program to implement SVM to classify the iris dataset. Calculate the accuracy, precision, and recall for your data set.
7. Hierarchical clustering algorithm to cluster a set of data stored in a .CSV file. Use the same dataset for clustering using k-Means algorithm. Compare the results of these two algorithms and comment on the quality of clustering.
8. An Artificial Neural Network by implementing the Back propagation algorithm and test the same using appropriate data sets.
9. Program in python to implement deep learning method for object recognition.
10. Program in python to implement the Reinforcement learning.
11. A machine learning code to analyze time series data.
12. A machine learning code to analyze Weather forecasting

31 Page  
 Payment of Rs = 42000 = 0  
 Shubh Kaur

Rishabh

PD

7/20/2020, 7:00 PM - 1:11

# Lecture Delivery Plan: "Data Science and Analytics"

13. Program to construct a Bayesian network considering an appropriate data set.
14. Program to predict the class of the flower based on available attributes.
15. Program to predict if a loan will get approved or not.
16. Program to predict the traffic on a new mode of transport.
17. Program to predict the class of user.
18. Program to identify the tweets which are hate tweets and which are not.
19. Program to predict the age of the actors.



**Dr. Shashi Kant**  
Assistant Professor (NPIU)  
Deptt. of Mathematics





Attendance

"Data Science & Analytics"

72

Batch-I

Day: 04

Date: September 21, 2020

Morning Session: 8:30 to 9:30

Timestamp	Name	Roll Number	Branch	Date
2020/09/21 8:30:47 AM GMT+5:30	Harshvardhan	180112012	PL	21/09/2020
2020/09/21 8:30:51 AM GMT+5:30	Aditya Prajapati	170112004	PL	21/09/2020
2020/09/21 8:31:20 AM GMT+5:30	Sudhanshu Tiwari	190110062	ME	21/09/2020
2020/09/21 8:32:05 AM GMT+5:30	Anushree Trivedi	190103013	CHE	21/09/2020
2020/09/21 8:32:38 AM GMT+5:30	Aditya singh	190112003	PL	21/09/2020
2020/09/21 8:35:06 AM GMT+5:30	Rajeev	180101022	PL	21/09/2020
2020/09/21 8:35:15 AM GMT+5:30	Aryansh Srivastava	190103017	CHE	21/09/2020
2020/09/21 8:35:19 AM GMT+5:30	DIVYANG PANT	180112010	PL	21/09/2020
2020/09/21 8:38:13 AM GMT+5:30	Pranav mani tripathi	190106032	ET	21/09/2020
2020/09/21 8:40:18 AM GMT+5:30	UJJWAL DWIVEDI	180113026	PT	21/09/2020
2020/09/21 8:41:40 AM GMT+5:30	Anant Agnihotri	190112006	PL	21/09/2020
2020/09/21 8:43:01 AM GMT+5:30	Himanshu Gautam	180101016	BE	21/09/2020
2020/09/21 8:45:25 AM GMT+5:30	Abhishek sachan	180112001	PL	21/09/2020
2020/09/21 8:49:21 AM GMT+5:30	Anshul Sonaray	170107006	FT	21/09/2020
2020/09/21 8:50:01 AM GMT+5:30	Prakhar Gupta	170109013	LT	21/09/2020
2020/09/21 8:51:03 AM GMT+5:30	Pradeep yadav	190101024	BE	21/09/2020
2020/09/21 8:51:25 PM GMT+5:30	Adarsh Awasthi	190103005	CHE	21/09/2020
2020/09/21 8:51:30 AM GMT+5:30	Subhash Chandra Verma	170101026	BE	21/09/2020
2020/09/21 8:57:28 AM GMT+5:30	Utkarsh Dixit	180109012	LT	21/09/2020
2020/09/21 9:05:14 AM GMT+5:30	Ashutosh Bhushan Singh	170109009	LT	21/09/2020
2020/09/21 9:10:15 AM GMT+5:30	Shubham Rana	190110060	ME	21/09/2020
2020/09/21 9:11:13 AM GMT+5:30	Shardendu Awasthi	170107021	FT	21/09/2020
2020/09/21 9:12:11 AM GMT+5:30	ISHITA SINGH	190108025	IT	21/09/2020
2020/09/21 9:13:12 AM GMT+5:30	Piyush Agarwal	190108027	IT	21/09/2020
2020/09/21 9:15:10 AM GMT+5:30	Amit Kumar Mishra	190108010	IT	21/09/2020
2020/09/21 9:18:10 AM GMT+5:30	Piyush Mishra	190107023	FT	21/09/2020
2020/09/21 9:20:10 AM GMT+5:30	Raghav Wadhawan	190111023	OT	21/09/2020
2020/09/21 9:20:11 AM GMT+5:30	Divas Srivastava	170101006	BE	21/09/2020
2020/09/21 9:21:19 AM GMT+5:30	Hemant singh	190108024	IT	21/09/2020
2020/09/21 9:21:32 AM GMT+5:30	Ishani Singh	190106017	ET	21/09/2020
2020/09/21 9:23:27 AM GMT+5:30	Ayush Pandey	180103014	CHE	21/09/2020
2020/09/21 9:23:35 AM GMT+5:30	Ram Dhani Prajapati	180103030	CHE	21/09/2020
2020/09/21 9:24:23 AM GMT+5:30	AKASH VERMA	190106003	ET	21/09/2020
2020/09/21 9:27:24 AM GMT+5:30	Subhagaya Singh	190106050	ET	21/09/2020

*[Signature]*

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*[Signature]*

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Attendance

"Data Science & Analytics"

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Batch-I Day: 04 Date: September 21, 2020

Evening Session: 6:30 to 9:30

Timestamp	Name	Roll Number	Branch	Date
2020/09/21 6:30:08 PM GMT+5:30	UJJWAL DWIVEDI	180113026	PT	21/09/2020
2020/09/21 6:30:15 PM GMT+5:30	Shubham Rana	190110060	ME	21/09/2020
2020/09/21 6:30:47 PM GMT+5:30	Harshvardhan	180112012	PL	21/09/2020
2020/09/21 6:30:52 PM GMT+5:30	Ishani Singh	190106017	ET	21/09/2020
2020/09/21 6:31:43 PM GMT+5:30	ISHITA SINGH	190108025	IT	21/09/2020
2020/09/21 6:32:05 PM GMT+5:30	Anushree Trivedi	190103013	CHE	21/09/2020
2020/09/21 6:32:30 PM GMT+5:30	Piyush Mishra	190107023	FT	21/09/2020
2020/09/21 6:32:38 PM GMT+5:30	Aditya singh	190112003	PL	21/09/2020
2020/09/21 6:33:15 PM GMT+5:30	Subhagaya Singh	190106050	ET	21/09/2020
2020/09/21 6:33:19 PM GMT+5:30	Rajeev	180101022	PL	21/09/2020
2020/09/21 6:33:47 PM GMT+5:30	Ayush Pandey	180103014	CHE	21/09/2020
2020/09/21 6:34:23 PM GMT+5:30	AKASH VERMA	190106003	ET	21/09/2020
2020/09/21 6:50:15 PM GMT+5:30	Divas Srivastava	170101006	BE	21/09/2020
2020/09/21 6:51:25 PM GMT+5:30	Adarsh Awasthi	190103005	CHE	21/09/2020
2020/09/21 7:01:40 PM GMT+5:30	Anant Agnihotri	190112006	PL	21/09/2020
2020/09/21 7:10:39 PM GMT+5:30	Prakhar Gupta	170109013	LT	21/09/2020
2020/09/21 8:15:55 PM GMT+5:30	Aryansh Srivastava	190103017	CHE	21/09/2020
2020/09/21 8:20:10 PM GMT+5:30	Raghav Wadhawan	190111023	OT	21/09/2020
2020/09/21 8:25:34 PM GMT+5:30	Ashutosh Bhushan Singh	170109009	LT	21/09/2020
2020/09/21 8:41:05 PM GMT+5:30	Himanshu Gautam	180101016	BE	21/09/2020
2020/09/21 8:55:59 PM GMT+5:30	DIVYANG PANT	180112010	PL	21/09/2020
2020/09/21 9:01:03 PM GMT+5:30	Shardendu Awasthi	170107021	FT	21/09/2020
2020/09/21 9:01:50 PM GMT+5:30	Sudhanshu Tiwari	190110062	ME	21/09/2020
2020/09/21 9:05:50 PM GMT+5:30	Subhash Chandra Verma	170101026	BE	21/09/2020
2020/09/21 9:15:04 PM GMT+5:30	Amit Kumar Mishra	190108010	IT	21/09/2020
2020/09/21 9:17:38 PM GMT+5:30	Utkarsh Dixit	180109012	LT	21/09/2020
2020/09/21 9:20:13 PM GMT+5:30	Pradeep yadav	190101024	BE	21/09/2020
2020/09/21 9:25:28 PM GMT+5:30	Piyush Agarwal	190108027	IT	21/09/2020
2020/09/21 9:25:35 PM GMT+5:30	Abhishek sachan	180112001	PL	21/09/2020
2020/09/21 9:26:39 PM GMT+5:30	Hemant singh	190108024	IT	21/09/2020
2020/09/21 9:27:19 PM GMT+5:30	Pranav mani tripathi	190106032	ET	21/09/2020
2020/09/21 9:29:01 PM GMT+5:30	Anshul Sonaray	170107006	FT	21/09/2020

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*[Signature]*

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Attendance

"Data Science & Analytics"

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Batch-I Day: 05 Date: September 22, 2020 Morning Session: 8:30 to 9:30

Timestamp	Name	Roll Number	Branch	Date
2020/09/22 8:31:07 AM GMT+5:30	PIYUSH AGARWAL	190108027	IT	22/09/2020
2020/09/22 8:35:11 AM GMT+5:30	Prakhar Gupta	170109013	LT	22/09/2020
2020/09/22 8:36:28 AM GMT+5:30	ISHITA SINGH	190108025	IT	22/09/2020
2020/09/22 8:41:12 AM GMT+5:30	Krishna Prajapati	190111018	OT	22/09/2020
2020/09/22 8:41:32 AM GMT+5:30	Aryansh Srivastava	190103017	CHE	22/09/2020
2020/09/22 8:47:19 AM GMT+5:30	Anant Agnihotri	190112006	PL	22/09/2020
2020/09/22 8:49:07 AM GMT+5:30	Ishani Singh	190106017	ET	22/09/2020
2020/09/22 8:51:18 AM GMT+5:30	Harshvardhan	180112012	PL	22/09/2020
2020/09/22 8:56:12 AM GMT+5:30	SARANSH BHARDWAJ	180112024	PL	22/09/2020
2020/09/22 8:56:20 AM GMT+5:30	Pranav mani tripathi	190106032	ET	22/09/2020
2020/09/22 8:58:23 AM GMT+5:30	Anshul Sonaray	170107006	FT	22/09/2020
2020/09/22 8:59:17 AM GMT+5:30	Pradeep yadav	190101024	BE	22/09/2020
2020/09/22 9:03:11 AM GMT+5:30	Raghav Wadhawan	190111023	OT	22/09/2020
2020/09/22 9:03:15 AM GMT+5:30	Ram Dhani Prajapati	180103030	CHE	22/09/2020
2020/09/22 9:05:19 AM GMT+5:30	Rajeev	180101022	PL	22/09/2020
2020/09/22 9:08:21 AM GMT+5:30	Akash Verma	190106003	ET	22/09/2020
2020/09/22 9:10:17 AM GMT+5:30	Sudhanshu Tiwari	190110062	ME	22/09/2020
2020/09/22 9:10:31 AM GMT+5:30	Anushree Trivedi	190103013	CHE	22/09/2020
2020/09/22 9:11:08 AM GMT+5:30	Shardendu Awasthi	170107021	FT	22/09/2020
2020/09/22 9:12:14 AM GMT+5:30	DIVYANG PANT	180112010	PL	22/09/2020
2020/09/22 9:18:10 AM GMT+5:30	Ashutosh Bhushan Singh	170109009	LT	22/09/2020
2020/09/22 9:19:14 AM GMT+5:30	Himanshu Gautam	180101016	BE	22/09/2020
2020/09/22 9:19:51 AM GMT+5:30	Aditya Prajapati	170112004	PL	22/09/2020
2020/09/22 9:19:55 AM GMT+5:30	Divas Srivastava	170101006	BE	22/09/2020
2020/09/22 9:20:14 AM GMT+5:30	Utkarsh Dixit	180109012	LT	22/09/2020
2020/09/22 9:21:20 AM GMT+5:30	SUBHUAM TANGAR	190106051	ET	22/09/2020
2020/09/22 9:25:19 AM GMT+5:30	Hemant singh	190108024	IT	22/09/2020
2020/09/22 9:30:12 AM GMT+5:30	Subhagaya Singh	190106050	ET	22/09/2020









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Certificate

It is certified that the students training on the future technology entitled “Data Science & Analytics” have been trained by me to the students of Batch-I through online mode using google class room from **September 18, 2020** to **October 04, 2020**. The attendance is also recorded through google meet. Due to internate connectivity, students joined many times, therefore in attendance sheet, name of some students are repeated. As per guidelines of NPIU, hands on is given through google class room, whatsapp and also doubts are cleared through telephonic discussion. Total students appeared in end term exam conducted by NASSCOM is 33 (Batch-I) in which one is certified in bronze category, and three in silver category.

Shashi Kant

P. Singh

(Dr. Shashi Kant)

Trainer “Data Science & Analytics”

## List of students registered on "Data Science and Analytics"

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Batch-I

Faculty: Dr. Shashi Kant, Deptt. of Mathematics

Name	Email Id	Branch	Date of Birth
Ayush Pandey	180103014@hbtu.ac.in	CHE	12/7/2000
PIYUSH AGARWAL	190108027@hbtu.ac.in	IT	6/14/2001
Himani Agarwal	180103017@hbtu.ac.in	CHE	9/23/2000
ANUSHREE TRIVEDI	190103013@hbtu.ac.in	CHE	1/7/2001
Ishani Singh	190106017@hbtu.ac.in	ET	11/8/1999
Aditya Prajapati	170112004@hbtu.ac.in	PL	2/11/1998
Subhagaya Singh	190106050@hbtu.ac.in	ET	11/8/1999
Ayush Tiwari	190205006@hbtu.ac.in	ET	8/17/1997
Aayush Srivastav	190103001@hbtu.ac.in	CHE	8/27/1999
Ankur Yadav	190103011@hbtu.ac.in	CHE	7/15/2001
Akash verma	190106003@hbtu.ac.in	ET	7/18/2001
Aryan Yadav	180111010@hbtu.ac.in	OT	7/10/1999
Saransh Bhardwaj	180112024@hbtu.ac.in	PL	11/1/1999
Piyush Mishra	190107023@hbtu.ac.in	FT	1/9/2001
Shardendu Awasthi	170107021@hbtu.ac.in	FT	9/29/1996
Rajeev	180101022@hbtu.ac.in	PL	3/1/1998
ADARSH AWASTHI	190103005@hbtu.ac.in	CHE	9/6/2003
Abhishek Jatariya	190108001@hbtu.ac.in	IT	4/24/2002
Ishan Srivastava	180103018@hbtu.ac.in	CHE	2/23/2000
ISHITA SINGH	190108025@hbtu.ac.in	IT	6/8/2000
Sandeep Singh Kushwaha	170101019@hbtu.ac.in	BE	5/28/2020
Aryansh Srivastava	190103017@hbtu.ac.in	CHE	3/31/2001
Gaurav Anand	180111016@hbtu.ac.in	OT	12/20/1999
Devesh Jadwani	170113008@hbtu.ac.in	PT	11/3/1997
Utkarsh Dixit	180109012@hbtu.ac.in	LT	3/19/2001
Vaibhav Bajpai	190106056@hbtu.ac.in	ET	3/28/2001
Suryansh Tripathi	190101036@hbtu.ac.in	BE	7/9/2000
Vansh Gupta	180112028@hbtu.ac.in	PL	9/10/2001
SUBHUAM TANGAR	190106051@hbtu.ac.in	ET	3/27/2001
Divas Srivastava	170101006@hbtu.ac.in	BE	10/29/1997
Amit Kumar Mishra	190108010@hbtu.ac.in	IT	4/10/2000
Aditya Singh	190112003@hbtu.ac.in	PL	3/16/2001
Saumya Chaudhary	180103035@hbtu.ac.in	CHE	11/2/2001
Harshit Gupta	180101015@hbtu.ac.in	BE	8/27/2000
Pranav Mani Tripathi	190106032@hbtu.ac.in	ET	7/13/2001
Saurabh Yadav	170112024@hbtu.ac.in	PT	1/19/1998
Amritansh R Mishra	190113007@hbtu.ac.in	PT	3/25/2000
Aditya sharma	190107001@hbtu.ac.in	FT	4/13/2001
Himanshu Gautam	180101016@hbtu.ac.in	BE	7/4/2000
Ashutosh Kumar Gupta	180111012@hbtu.ac.in	OT	7/11/2000

Shashi Kant

Rishabh

AD



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Date: 22/02/2021

**The Coordinator, TEQIP III  
HBTU, Kanpur**

**Subject:** Regarding reimbursement of honorarium of students training on "Data Science and Analytics".

**Respected Sir,**

In reference to your letter 455/Ext./ TEQIP-III/2020 dated June 16, 2020, I have trained the students in area of "Data Science and Analytics" as trainer from Septemebr 18, 2020 to October 04, 2020.

S.N.	Name of Trainer	Training Duration (In hours)	Hours claimed for honorarium (60 hours as aproved)	Total
1.	Dr. Shashi Kant	68 hours ( Theory: 40 hours + Practical:28 hours)	60×700=Rs. 42000	Rs. 42000-/ Total- Rs. 42000-/ Name: Shashi Kant A/C No: 33411800155 Name of Bank: State Bank of India Branch: CSA University Nawabganj, Kanpur IFSC Code: SBIN0003809

\* The Course "Data Science & Analytics" has been conducted through online mode

Therefore, I request you to please release the honorarium for this training programme as per directions given by NPIU.

\*\* Original approval letter has been attached in Dr-Raghwendra Singh Payment file.   
Shashi Kant  
22-02-2021

**Dr. Shashi Kant**  
Assistant Professor (NPIU)  
Department of Mathematics

ENCLS

1. Approval letter
2. Registered students
3. Lecture delivery plan
4. Syllabus
5. Attendance
6. Students feedback
7. Mid assessment result
8. End assessment result
9. Sample copies of students result
10. News paper cutting
11. Sample screen shots of online training classes
12. Vendor form and Copy of Adhar, PAN and Account Summary

all Documents attached with this letter is verified and signed by Rishi Ramesh 23-02-2021  
Rishi Ramesh  
Co-ordinator "Future Skill Technologies"

# Attendance "Data Science & Analytics"

Batch-I		Day: 01	Date: September 18, 2020	Morning Session: 8:30 to 9:30		
Timestamp	Name	Roll Number	Branch	Date		
2020/09/18 8:30:11 AM GMT+5:30	Anshul Sonaray	170107006	FT	18/09/2020		
2020/09/18 8:31:13 AM GMT+5:30	Piyush Agarwal	190108027	IT	18/09/2020		
2020/09/18 8:32:33 AM GMT+5:30	Pradeep yadav	190101024	BE	18/09/2020		
2020/09/18 8:34:14 AM GMT+5:30	Suryansh Tripathi	190101036	BE	18/09/2020		
2020/09/18 8:36:25 AM GMT+5:30	Abhishek sachan	180112001	PL	18/09/2020		
2020/09/18 8:36:29 AM GMT+5:30	Himanshu Gautam	180101016	BE	18/09/2020		
2020/09/18 8:38:31 AM GMT+5:30	UJJWAL DWIVEDI	180113026	PT	18/09/2020		
2020/09/18 8:39:01 AM GMT+5:30	Aryansh Srivastava	190103017	CHE	18/09/2020		
2020/09/18 8:41:31 AM GMT+5:30	Subahsh Chandra Verma	170101026	BE	18/09/2020		
2020/09/18 8:41:49 AM GMT+5:30	Prakhar Gupta	170109013	LT	18/09/2020		
2020/09/18 8:42:35 AM GMT+5:30	Hemant singh	190108024	IT	18/09/2020		
2020/09/18 8:43:02 AM GMT+5:30	Krishna Prajapati	190111018	OT	18/09/2020		
2020/09/18 8:50:21 AM GMT+5:30	Shubham Rana	190110060	ME	18/09/2020		
2020/09/18 8:51:29 AM GMT+5:30	Raghav Wadhawan	190111023	OT	18/09/2020		
2020/09/18 8:52:14 AM GMT+5:30	Harshit Gupta	180101015	BE	18/09/2020		
2020/09/18 8:53:35 AM GMT+5:30	Ram Dhani Prajapati	180103030	CHE	18/09/2020		
2020/09/18 8:54:04 AM GMT+5:30	NASEEM ANSARI	180111021	OT	18/09/2020		
2020/09/18 8:54:24 AM GMT+5:30	Ashish Singh Parihar	180110022	ET	18/09/2020		
2020/09/18 8:59:51 AM GMT+5:30	Aditya Prajapati	170112004	PL	18/09/2020		
2020/09/18 9:01:16 AM GMT+5:30	Govind Das	180113009	PT	18/09/2020		
2020/09/18 9:03:44 AM GMT+5:30	Aditya Singh	190112003	PL	18/09/2020		
2020/09/18 9:03:46 AM GMT+5:30	Pranav mani tripathi	190106032	ET	18/09/2020		
2020/09/18 9:04:59 AM GMT+5:30	Shardendu Awasthi	170107021	FT	18/09/2020		
2020/09/18 9:12:35 AM GMT+5:30	Piyush Mishra	190107023	FT	18/09/2020		
2020/09/18 9:15:45 AM GMT+5:30	Divas Srivastava	170101006	BE	18/09/2020		
2020/09/18 9:15:51 AM GMT+5:30	Anushree Trivedi	190103013	CHE	18/09/2020		
2020/09/18 9:16:32 AM GMT+5:30	SARANSH BHARDWAJ	180112024	PL	18/09/2020		
2020/09/18 9:17:33 AM GMT+5:30	DIVYANG PANT	180112010	PL	18/09/2020		
2020/09/18 9:17:37 AM GMT+5:30	Ashutosh Bhushan Sing	170109009	LT	18/09/2020		
2020/09/18 9:18:01 AM GMT+5:30	Utkarsh Dixit	180109012	LT	18/09/2020		
2020/09/18 9:18:24 AM GMT+5:30	Akash Verma	190106003	ET	18/09/2020		
2020/09/18 9:21:01 AM GMT+5:30	Ishani Singh	190106017	ET	18/09/2020		
2020/09/18 9:21:03 AM GMT+5:30	Harshvardhan	180112012	PL	18/09/2020		
2020/09/18 9:21:25 AM GMT+5:30	Ayush Pandey	180103014	CHE	18/09/2020		
2020/09/18 9:22:09 AM GMT+5:30	Anant Agnihotri	190112006	PL	18/09/2020		
2020/09/18 9:22:58 AM GMT+5:30	Rajeev	180101022	PL	18/09/2020		
2020/09/18 9:23:06 AM GMT+5:30	Swatantra Manas Dixit	190103058	CHE	18/09/2020		
2020/09/18 9:23:15 AM GMT+5:30	Sudhanshu Tiwari	190110062	ME	18/09/2020		
2020/09/18 9:25:36 AM GMT+5:30	Subhagaya Singh	190106050	ET	18/09/2020		
2020/09/18 9:27:02 AM GMT+5:30	Amit Kumar Mishra	190108010	IT	18/09/2020		
2020/09/18 9:29:46 AM GMT+5:30	ISHITA SINGH	190108025	IT	18/09/2020		
2020/09/18 9:29:50 AM GMT+5:30	Adarsh Awasthi	190103005	CHE	18/09/2020		

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# एचबीटीयू के अविरल को सिल्वर मेडल

कानपुर | वरिष्ठ संवाददाता

एचबीटीयू के 32 छात्रों ने शनिवार शाम सॉफ्टवेयर तकनीक में इंटरनेट ऑफ थिंग्स (आईओटी), डाटा साइंस, रोबोटिक्स, स्वचलीकरण से जुड़ी देश की प्रतिष्ठित प्रतियोगिता में सफलता हासिल की। अविरल गुप्ता को गोल्ड मेडल मिला। पांच छात्रों को सिल्वर व 26 छात्रों को ब्रांज मेडल मिला। यह प्रमाणपत्र नैसकॉम (नेशनल एसोसिएशन ऑफ सॉफ्टवेयर एण्ड सर्विस कम्पनीज) ने दिए हैं।

प्रति कुलपति प्रोफेसर मनोज शुक्ला ने बताया कि शिक्षकों और छात्रों को भविष्य की सॉफ्टवेयर तकनीकी से परिचित कराने के लिए इंटरनेट ऑफ थिंग्स (आईओटी), डाटा साइंस, रोबोटिक्स, स्वचलीकरण आदि के लिए प्रशिक्षण दिया गया था। अखिल भारतीय स्तर पर हुई प्रतियोगिता में एचबीटीयू से 32 छात्रों का चयन हुआ।

गणित विभाग के प्रोफेसर डॉ. राघवेंद्र सिंह और इलेक्ट्रॉनिक्स विभाग के सहायक प्रोफेसर डॉ. मनीष सिंह के अलावा छात्रों को प्रशिक्षण नयनिका श्रीवास्तव, धर्मेन्द्र सिंह, डॉ. शशिकांत,



अविरल गुप्ता।

यह रहे सफल छात्र

गोल्ड : अविरल गुप्ता

सिल्वर : आर्यन वर्मा, सांभव जैन,

अनन्त अग्निहोत्री, पीयूष अग्रवाल,

प्रणव मनी त्रिपाठी

ब्रॉन्ज : गौरांग महेश्वरी, शुभम तंगर,

अभिषेक सचान, शुभम राना, पीयूष

कुमार, उपगया दीक्षित, आदित्य मिश्रा,

सुधांशु गुप्ता, दिव्यांशु पटेल, उत्कर्ष

आजाद, कृष्णा कटियार, मान्या

पांडेय, सृष्टि राजपूत, पीयूष राजपूत,

अमन गुप्ता, अनुष्का पांडेय, विदित

यादव, कृतिका सक्सेना, ज्योति,

हर्षित भार्गव, अभिनन्दन मिश्रा, मोनाली

चक्रवर्ती, आदित्य कुमार, अर्पित

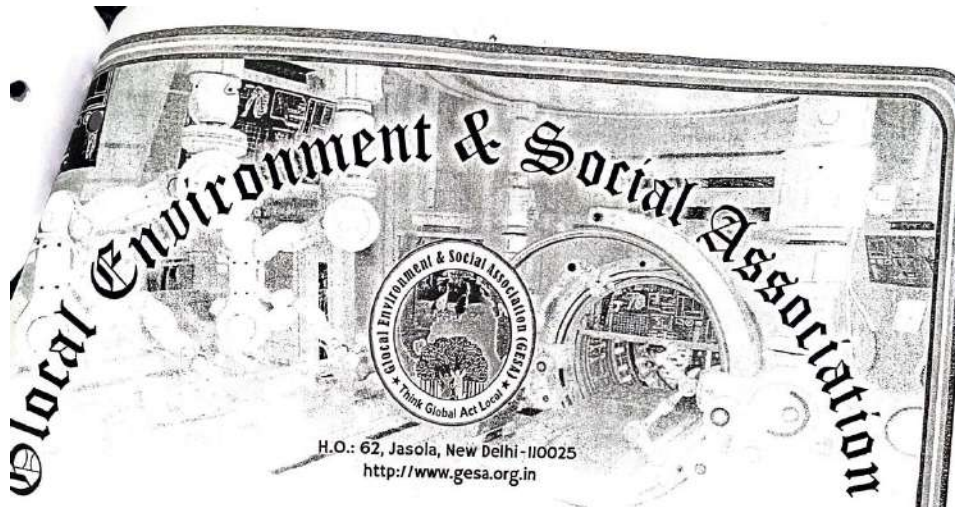
कटियार, गीतांजली प्रकाश

डॉ. मनीष सिंह और डॉ. राघवेंद्र सिंह ने दिया था।

कानपुर | वरिष्ठ  
भाजपा के  
विश्वनेई निर्विरो  
वाद पहली वा  
स्वागत की हो  
शुक्लागंज  
पहले भाजपा  
बजाज ने मा  
स्वागत क्रिया  
त्रिपाठी, जि  
श्याम तिवारी  
मोर्चा के जिल  
क्लब पर उन  
सिंह, सौरभ  
हर्षित श्रीवास्  
पुल पर भाजप  
दिनेश अग्रवाल  
पास कैट बो  
ओमर, गोपाल  
आदि ने स्वागत  
मोहित पांडेय,  
तिवारी, अनी  
सुदर्शन भी रहे  
फाउंडेशन के त  
स्वागत हुआ।  
अंशु राठौर, शै  
डल्लन राठौर,  
हिमांशु, उस्मान

School of Engineering

Civil Engineering



H.O.: 62, Jasola, New Delhi-110025  
<http://www.gesa.org.in>

The Executive Council of GESA hereby confers  
**TECHNOLOGICAL INNOVATIONS AWARD**

on

**Dr. Pradeep Kumar**

Professor & Head  
Department of Civil Engineering  
HBTU Kanpur (U.P.)

for his commendable contribution in the field of

**INNOVATIVE TECHNOLOGIES.**

This Award is presented to him during  
1st Annual Session of GESA /1st International Conference on  
Environment and Society (ICES 2019)  
held at Harcourt Butler Technical University (HBTU), Kanpur, India  
in the presence of National and International dignitaries on  
December 22 & 23, 2019.

*M. Verma*

Smt. M. Verma  
Gen. Secretary, GESA

Organizers



Reg. office: 14E/4A Jawahar Lal Nehru Road, Prayagraj-211002





ENVIRONMENTAL &  
WATER RESOURCES  
INSTITUTE

The Environmental and Water Resources Institute of the  
American Society of Civil Engineers bestows on

# Dipteek Parmar, Ph.D.

Journal of Hydrologic Engineering

2021 Best Discussion

*For highlighting a set of significant issues that deserve further discussion and providing important clarifications in the context of study area, hypothetical scenarios, and model calibration, which enrich the topics covered in the original article.*

*Deborah H. Lee*

Deborah H. Lee, P.E., P.H., P.E., F.ASCE  
President, ASCE-EWRI

*Brian Barstow*

Brian Barstow  
Managing Director, EWR

2021/6/18 23:25



## Computer Science & Engineering



# Celebration of "World Telecommunication and Information Society Day-2022" on the theme "Digital Technologies for Older Persons and Healthy Aging"



**Chief Guest**  
**Prof.S.N.Singh**  
Director,ABV-IIITM  
Gwalior,India



**Guest Speaker**  
**Dr.Rupam Das**  
CEO,Acculi Labs Pvt. Ltd.  
Bengaluru,India



**Guest Speaker**  
**Dr.S.K.Mishra**  
MS,Distinguished Visiting Professor  
IIT,Kanpur,India

**Tuesday,17th May,2022 at 5PM-IST Onwards**

Google meeting link:

<http://meet.google.com/esq-dcah-rwh>

Er.Prashant Kumar  
Honorary Secretary  
IETE-Kanpur

Er.Ramakant Yadav  
Honorary Secretary  
IE(I)-Kanpur

Dr.Akhilesh Tiwari  
Honorary Secretary  
IEEE-UP Section

E-Certificate will be provided to all the participants

**For more information:ietekanpurcentre80@gmail.com**



**Resource Person**

1. Prof. Sandeep Shukla, IIT Kanpur
2. Prof. Nishchal K. Verma, IIT Kanpur
3. Prof. Surya Prakash, IIT Indore
4. Prof. Malay K. Dutta, Centre for Advanced Studies, Lucknow
5. Prof. Satish Kumar Singh, Chairman, IEEE UP Section
6. Prof. C. Deisy, TCE Madurai
7. Prof. C. Jeyamale, TCE Madurai
8. Mrs. Mamta Swarup, Director, Sapphire Application Integrators Pvt. Ltd., New Delhi
9. Er. Gaurav Sharma, ARS Technologies

**No Registration Fee**

Note: Closing of registration: 18.07.2021 or 250 participants whichever is earlier.

Preference: Faculty/Industry person / Research Scholar / PG Student / UG Student  
Registration Details: Participants can register using the following Google Form link: <https://forms.gle/Q&5UaDByzBM4v929>

**Patron**

**Prof. Samsher**  
Hon'ble Vice chancellor  
H.B.T.U. Kanpur

**Prof. S.K. Singhal**  
Dean, School of Engineering  
H.B.T.U. Kanpur

**Convener & Chairperson**

**Prof. Narendra Kohli**  
Professor & Head

**Coordinators**

Dr. (Mrs.) Anita Yadav  
Associate Professor

Dr. Prabhat Verma  
Assistant Professor

Dr. (Mrs.) V.D. Kaushik  
Assistant Professor

Department of Computer Science & Engineering, H.B.T.U. Kanpur

Communication Details:  
Email: hodcse@hbtu.ac.in;  
ayadav@hbtu.ac.in;  
gverma@hbtu.ac.in;  
vdkaushik@hbtu.ac.in  
Mob No. 9415411199, 8765594141,  
9935648223, 935449960

IEEE  
One Week Online National Level Faculty Development Program (FDP) cum Short Term Training Programme (STTP) on

**Recent Trends & Advancements in the Era of Machine Learning**

July 19-24, 2021

**Convener**

**Prof. Narendra Kohli**

Coordinators

Dr. (Mrs.) Anita Yadav  
Dr. Prabhat Verma  
Dr. (Mrs.) V.D. Kaushik

**Organised by**

Department of Computer Science & Engineering  
Harcourt Butler Technical University  
Kanpur-208002 Uttar Pradesh

TECHNICALLY SPONSORED BY IEEE UP SECTION (INDIA)

## Electrical Engineering

### Schedule

#### Simulation Techniques of Power Electronics Converters (STPEC) (February 27<sup>th</sup> - March 04<sup>th</sup>, 2017)

DAY-DATE	MONDAY 27.02.2017	TUESDAY 28.02.2017	WEDNESDAY 01.03.2017	THURSDAY 02.03.2017	FRIDAY 03.03.2017	SATURDAY 04.03.2017
10:00 A.M. - 11:30 A.M.	<b>Registration &amp; Inauguration</b>	Design and Implementation of Systems (KR)	Flexible AC Transmission Systems: Overview (AS)	Design of Hybrid (Neuro-Fuzzy) Intelligent Systems (YS)	Multilevel Inverters and its Applications (SK)	Reduced Number of Devices Multilevel Inverters (SK)
11:30 A.M. - 11:45 A.M.		<b>Tea Break</b>				
11:45 A.M. - 1:15 P.M.	Simulation and Design of High Frequency DC-DC Converters (SM)	Design, Implementation and Control of Low Voltage DC Microgrid (SPD)	Power Quality Improvement Using Multilevel Converter (SPS)	Discrete Event System Modeling Using Petri Nets (YS)	Multilevel Inverters Modulations Techniques (SK)	Modeling and Simulation of OWIM Drive (SK)
1:15 P.M. - 2:00 P.M.	<b>Lunch</b>					<b>Valedictory Function Followed by High-Tea</b>
2:00 P.M. - 3:30 P.M.	AC/DC Rectifiers An-Overview (SK)	Modeling and Simulation of DC-DC Converter Systems (SK)	Simulation of NPC Converter (SPS)	Simulation and Modeling of VSI (SK)	Current Trends in Multilevel Inverters (PC)	
3:30 P.M. - 3:45 P.M.	<b>Tea Break</b>					
3:45 P.M. - 5:15 P.M.	Simulation of AC-DC Rectifier Systems (SK)	Simulation of AC Regulator Using MATLAB Simulink (SK)	Power Line Communications (MKS)	Simulation of Multi-Pulse AC/DC Converter (SK)	Modeling and Simulation of Multilevel Inverters (PC)	

SM: Dr. Sandaru Mishra IIT, Kanpur	SPD: Dr. S. P. Das IIT, Kanpur	PC: Dr. Pradyumn Chaturvedi VNIT, Nagpur	SPS: Dr. S. P. Singh KNIT, Sultanpur
KR: Dr. K.Raj HBTU, Kanpur	MKS: Dr. Manoj Kr. Shukla HBTU, Kanpur	AS: Dr. Archana Singh HBTU, Kanpur	YS: Dr. Yaduvir Singh HBTU, Kanpur
			SK: Dr. Sanjiv Kumar HBTU, Kanpur

## Electronics Engineering

<p><b>Resource People :</b></p> <ol style="list-style-type: none"> <li><b>1. Prof. Partha Pratim Sahu (Senior Member, IEEE)</b>, Professor at Department of Electronics and Communication Engineering, Tezpur University, Assam, India.</li> <li><b>2. Prof. Krishna Raj (Member-IEEE)</b>, Professor &amp; HoD at Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India.</li> <li><b>3. Dr. N. B. Balamurugan (Senior Member, IEEE)</b>, Associate Professor at Department of Electronics and Communication Engineering, Thiagarajar College of Engineering Madurai, Tamil Nadu, INDIA.</li> <li><b>4. Dr. Rupam Goswami (Member-IEEE)</b>, Assistant Professor at Department of Electronics and Communication Engineering, Tezpur University, Assam, India.</li> <li><b>5. Dr. Sunil Pandey</b>, Analog Design Engineer, Intel Corporation, India.</li> <li><b>6. Dr. Rajesh Saha (Senior Member, IEEE)</b>, Assistant Professor at Department of Electronics and Communication Engineering, MNIT Jaipur, Rajasthan, India.</li> <li><b>7. Dr. Kavindra Kandpal (Senior Member, IEEE)</b>, Assistant Professor at the Electronics and Communication Engineering department of IIT-Allahabad.</li> <li><b>8. Dr. Suman Kumar Mitra (Member-IEEE)</b>, Assistant Professor at Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India.</li> </ol> <p><b>No Registration Fee</b></p> <p>Note: Closing of registration: 01.06.2021 or 250 participants whichever is earlier.</p> <p>Preference: Faculty/ Industry person -&gt; Research Scholar -&gt; PG Student -&gt; UG Student</p> <p>Registration Details: Participants can register using the following Google Form link: <a href="https://forms.gle/iwGzZvozHfj41FcQ6">https://forms.gle/iwGzZvozHfj41FcQ6</a></p>	<p><b>Patron</b> <b>Prof. Samsher</b> Hon'ble Vice Chancellor HBTU Kanpur</p> <p><b>Prof. S. K. Singhal</b> Dean, School of Engineering H.B.T.U. Kanpur</p> <p><b>Convener &amp; Chairperson</b> <b>Prof. Krishna Raj</b> Head, Department of Electronics Engineering HBTU Kanpur</p> <p><b>Coordinators</b> <b>Dr. Suman Kumar Mitra</b> Assistant professor (NPIU) &amp; Faculty Counselor, HBTU IEEE Student Branch, <b>Dr. Manish Kr. Singh</b> Assistant Professor (NPIU) Department of Electronics Engineering HBTU Kanpur</p> <p><b>Deputy Coordinator</b> <b>Mrs. Nayanica Srivastava</b> Assistant Professor (NPIU) Department of Electronics Engineering HBTU Kanpur</p> <p>Communication Details: Email: <a href="mailto:kraj@hbtu.ac.in">kraj@hbtu.ac.in</a>; <a href="mailto:skmitra@hbtu.ac.in">skmitra@hbtu.ac.in</a> Mobile No.: 7002436672</p>	  <p>05-Day Online National Level Faculty Development Program (FDP) - cum - Short Term Training Programme (STTP) On "Simulation, Modelling, and Application of Advanced Semiconductor Devices"</p> <p><b>July 05-09, 2021</b></p> <p><b>Convener</b> <b>Prof. Krishna Raj</b></p> <p><b>Coordinator</b> <b>Dr. Suman Kumar Mitra</b> <b>Dr. Manish Kumar Singh</b></p> <p><b>Organised by</b> DEPARTMENT OF ELECTRONICS ENGINEERING SCHOOL OF ENGINEERING HARCOURT BUTLER TECHNICAL UNIVERSITY KANPUR-208002, UTTAR PRADESH</p> <p>IN ASSOCIATION WITH HBTU IEEE STUDENT BRANCH</p> <p>TECHNICALLY SPONSORED BY IEEE UP SECTION (INDIA)</p>
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## Mechanical Engineering



**Webinar on**  
**“Simulation Softwares for Mechanical Engineers”**  
**Organisers: Mechanical Engineering Department, HBTU, Kanpur**  
**& Trident Techlabs**

**Date: 30<sup>th</sup>, May, 2020**

**Time: 10:30 AM to 01:00 PM**

**PATRON**



Prof. N.B. Singh  
Hon'ble Vice Chancellor  
Harcourt Butler Technical University, Kanpur

Convenor: Dr. Rajive Gupta  
Professor & Head Mechanical Engineering  
Harcourt Butler Technical University, Kanpur



Coordinator: Dr. Vinay Pratap Singh  
Assistant Professor- Mechanical Engineering  
Harcourt Butler Technical University, Kanpur



**SPEAKER**

Mr. Puskaraj,  
Asso. Technical Manager  
Trident Techlabs, Pune

Inaugural Session [10:30AM to 11:00AM]	
1-	Welcome Address : Dr. Vinay Pratap Singh
2-	About the Webinar: Prof. Rajive Gupta
3-	Words of Blessings: Prof. N.B.Singh, Hon'ble Vice Chancellor
4-	Vote of thanks: Dr. Vinay Pratap Singh
Technical session [11:00AM-1:00PM]	
Speaker:	Mr. Puskaraj, TridentTech Labs, Pune
Topics:	<b>Modelling software (CREO)</b> <b>System Dynamics (Simulation X)</b> <b>Mechanical Analysis (MSC)</b> <b>Multiphysics (COMSOL)</b> <b>Manufacturing (SprutCAM)</b>
Closing Session	
Please Register using the Link: <a href="#">Registration form</a>	
Webinar platform: <a href="#">gotomeeting</a>	

# School of Chemical Technology

## Bio-Chemical Engineering

<u>REGISTRATION FORM</u>		
<b>One-Week Faculty Development Program on "Frontiers in Bioprocess Technology" (September 20-24, 2021)</b>	<b>PATRON</b> Prof. Samsher Hon'ble Vice Chancellor HBTU, Kanpur	<b>One Week Faculty Development Program on "Frontiers in Bioprocess Technology" September 20-24, 2021</b>
Name: .....	<b>CHAIRMAN</b> Prof. Anuk Kumar Singh Dean, School of Chemical Technology HBTU, Kanpur	<i>Organized by</i>
Designation: .....	<b>CONVENER</b> Mr. Brajesh Singh Head, Biochemical Engineering Department HBTU, Kanpur	
Department: .....	<b>COORDINATORS</b> Dr. Lalit Kr. Singh Dr. Dilip Kumar Mr. Pravin Kr. Sachan	<b>Biochemical Engineering Department School of Chemical Technology Harcourt Butler Technical University Kanpur-208002</b>
Inst. Univ: .....	<b>ORGANIZING COMMITTEE MEMBERS</b> Mr. Mohit Kr. Yadav Mr. Shashikant Mr. Akshay Kr. Singh Mrs. Rima Verma	
Research Interest: .....		<b>Venue: Online mode via Google Meet</b>
Highest Qualification: .....		
Years of Experience: .....		
E-mail: .....		
Phone: .....		
Signature of the Participant: .....		
Signature of Head of the Dept./Inst: .....		
Official Stamp:		
The filled registration form should be sent to 14c2021hbtu@gmail.com by September 19, 2021.		
All participants are required to fill the Google form via following link: <a href="https://docs.google.com/forms/d/e/1FAIpQLS-CJdZNdWbJKIGWwENda4-zRAJZPInkHqUaqd4gGS89g/viewform">https://docs.google.com/forms/d/e/1FAIpQLS-CJdZNdWbJKIGWwENda4-zRAJZPInkHqUaqd4gGS89g/viewform</a>		



## Chemical Engineering

<p><b>RESOURCE PERSONS</b></p> <p>Prof. S. N. Upadhyay Emeritus Professor, IIT (BHU), Varanasi</p> <p>Dr. R. K. Singhal, BARC, Mumbai</p> <p>Prof. M. K. Jha, NIT Jalandhar</p> <p>Prof. Daniel A. Vallerio, US EPA, USA</p> <p>Prof. R. S. Singh, IIT (BHU), Varanasi</p> <p>Prof. Sanjay Tewari, Missouri University, USA</p> <p>Mr. Paritosh Tripathi, CEO, AIC BHU, Varanasi</p> <p>Dr. Bharat Bajaj, Punjab University</p> <p>Dr. Vikas Kumar Sangal, MNIT Jaipur</p> <p>Prof. M. K. Mondal, IIT (BHU), Varanasi</p> <p>Dr. Pratchi Singh, IIT (ISM), Dhanbad</p> <p>Dr. Paukaj Kumar, BITS Hyderabad</p> <p>Mr. Sushen Vithal, Kiewit, Houston, USA</p> <p>Mr. Kumar Vikrant, Hanyang University, Korea</p> <p>Dr. Anshuman Srivastava, Dean (R &amp; D), SIET</p> <p>Prof. P. K. Mishra, Vice Chancellor, JUT, Ranchi</p> <p>All participants are required to fill the Google form via link: <a href="https://docs.google.com/forms/d/e/1FAIpQLSeffhikOCiRO-0hD6Ri5Lk3v3mMuz7FR-90'NY6SLV_gse2m3aLsY18v/form">https://docs.google.com/forms/d/e/1FAIpQLSeffhikOCiRO-0hD6Ri5Lk3v3mMuz7FR-90'NY6SLV_gse2m3aLsY18v/form</a></p>	<p><b>PATRON</b></p> <p>Prof. Samsher Hon'ble Vice Chancellor HBTU, Kanpur</p> <p><b>CHAIRMAN</b></p> <p>Prof. Alak Kumar Singh Dean, School of Chemical Technology HBTU, Kanpur</p> <p><b>CONVENERS</b></p> <p>Dr. Rajesh Katiyar Head, Department of Chemical Engineering</p> <p>Mr. Jitendra Kumar Assistant Professor, Chemical Engineering</p> <p><b>COORDINATORS</b></p> <p>Dr. Deepak Yadav Assistant Professor, Chemical Engineering HBTU, Kanpur</p> <p>Dr. Anil Kumar Assistant Professor, Food Technology HBTU, Kanpur</p> <p><b>ORGANIZING SECRETARIES</b></p> <p>Dr. S. K. Gupta, Chemical Engineering</p> <p>Dr. Ashwini Sood, Chemical Engineering</p> <p>Dr. G. L. Devnani, Chemical Engineering</p> <p>Dr. A. K. Rathore, Chemical Engineering</p> <p>Dr. Vivek Kumar, Food Technology</p>	<p><b>One Week Faculty Development Program on Modern Innovations in Chemical Engineering and Technology (MICET 2021) August 9-13, 2021</b></p> <p><i>Jointly Organized by</i></p>  <p>Department of Chemical Engineering &amp; Department of Food Technology School of Chemical Technology Harcourt Butler Technical University Kanpur-208002</p>  <p>Venue: Online mode via Google Meet link: <a href="https://meet.google.com/qag-wego-nfv">https://meet.google.com/qag-wego-nfv</a></p> <p><b>Registration Fee for Participants: NIL</b></p>
<p>For detailed information, please visit: <a href="https://sites.google.com/view/hbtufoodtechfdp2021/home?authuser=0">https://sites.google.com/view/hbtufoodtechfdp2021/home?authuser=0</a></p>		

## Food Technology

<p>Registration Form for FDP on <b>Recent Developments in Food processing and Packaging</b> September 24-29, 2018</p> <p>Last date for receipt of registration form: September 21, 2018</p> <p>Name in Block Letters:</p> <p>Designation:</p> <p>Department:</p> <p>University/ Institute/ College / Organization:</p> <p>Address:</p> <p>E-mail ID:</p> <p>Contact No.:</p> <p>Highest Qualification:</p> <p>Research Interest/ Area:</p> <p>Are you from a TEQIP network institute?:</p> <p>Do you want accommodation in HBTU guest house?:</p> <p>Signature of the Participant Date:</p> <p>Signature of Head of the Institution Date:</p> <p>Official Stamp:</p>	<p>Organizing Committee for FDP</p> <p><b>Patron</b> Prof. N. B. Singh Hon'ble Vice-Chancellor, HBTU, Kanpur</p> <p><b>Chairman</b> Prof. Kanunakar Singh Dean, School of Chemical Technology, Head, Department of Food Technology, HBTU, Kanpur</p> <p><b>Co-Chairman(s)</b> Prof. Deepak Srivastava Head, Department of Plastic Technology</p> <p>Prof. Alak Kumar Singh Department of Food Technology</p> <p><b>Coordinator, TEQIP-III</b> Prof. Rachna Asthana Head, Electronics Engineering Department HBTU, Kanpur</p> <p><b>Convener</b> Dr. Vivek Kumar Assistant Professor, Department of Food Technology School of Chemical Technology</p> <p><b>Members</b> Mr. Akshay Kumar Singh Mobile: 9415044168 Ms. Anjali Srivastava Mobile: 9792582607</p> <p><b>Contact Persons</b> Dr. Vivek Kumar E-mail: vkumar@hbtu.ac.in Mobile: 7081300539 Prof. Deepak Srivastava E-mail: dsrivastava@hbtu.ac.in Mobile: 7081300543 Prof. Alak Kumar Singh E-mail: alak.singh@hbtu.ac.in Mobile: 7081300516</p>	<p>A Faculty Development Programme On <b>Recent Developments in Food processing and Packaging</b> Under TEQIP-III, World Bank Project During September 24-29, 2018</p>  <p><b>Convener</b> Dr. Vivek Kumar Assistant Professor, Department of Food Technology School of Chemical Technology H.B.T.U., Kanpur</p> <p><i>Jointly Organised by</i></p> <p>Department of Food Technology &amp; Department of Plastic Technology School of Chemical Technology <b>Harcourt Butler Technical University,</b> Kanpur-208002, Uttar Pradesh Visit us at: <a href="http://www.hbtu.ac.in">www.hbtu.ac.in</a></p>
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# Oil Technology





**Dear Sir/Madam,**  
*The Department of Oil Technology, HBTU Kanpur  
feels pleasure in inviting you to the inaugural function of One Day  
National workshop*  
**ON**  
**GAS CHROMATOGRAPHY AND ITS APPLICATION IN  
OILS & FATS ANALYSIS**  
(Conducted as part of the centenary year celebrations of HBTU, Kanpur)  
**On**  
**13th October, 2021 (Wednesday) at 11:00 A.M. On Webex Platform**  
Jointly organized by Department of Oil Technology, Oil Technologists Association of India & FARELABS

 <b>Patron</b> Prof. Samsheer Hon'ble Vice Chancellor H.B.T.U. Kanpur	 <b>Guest of Honor</b> Dr. R.P. Singh Ex-Director, H.B.T.U. Kanpur	 <b>General Chairman</b> Mr. D. Mathur President OTAI (HQ)	 <b>Dr. Meenukshi Tripathi</b> President, FARE Labs Pvt. Ltd.
 <b>Chairman</b> Prof. Alak Kumar Singh Dean School of Chemical Technology H.B.T.U. Kanpur	 <b>Coordinator</b> Dr. P.K.S. Yadav Assistant Professor, Oil Technology H.B.T.U. Kanpur	 <b>Convener</b> Mr. H.S. Sharma HGS, OTAI (HQ)	

**SPEAKERS**

 <b>Dr. S. K. Raza</b> CEO (Testing), FARE Labs Pvt. Ltd.	 <b>Mr. Bhuvan Dole</b> Scientist C, FARE Labs Pvt. Ltd.	 <b>Dr. Balakrishna</b> HOD Oil Section, FARE Labs Pvt. Ltd.
 <b>Dr. Sammalah Arukali</b> HOD HPLC Section, FARE Labs Pvt. Ltd.	 <b>Ms. Rita Singh</b> DGM Technical, FARE Labs Pvt. Ltd.	

## Plastic Technology



### Department of Paint Technology & Department of Plastic Technology HBTU Kanpur

are organizing  
**One Day National Webinar**

on

## HIGH PERFORMANCE POLYMERS FOR PAINTS AND PLASTICS

(As a part of Centenary Year Celebration of HBTU, Kanpur)

**WHEN: AUGUST 21, 2021 (SATURDAY)**

**TIME: 11:00 A.M. TO 4:00 PM**

**PLATFORM: GOOGLE MEET**

High Performance Polymers find applications in resins for paints and coatings as well as in engineering plastics. This webinar is designed to provide an overview of the applications of HP polymers in paints and plastic industry

**Target Audience:** Students, Research Scholars, Faculty Members, Industry personals related to Paints and Polymer Technology, Chemical Technology

### About the Departments

#### Paint Technology

The Department of Paint Technology is one of the oldest department of HBTU Kanpur. It runs full time B.Tech. course with an intake of 30 and 2 years M.Tech along with Ph.D. program. The department is well equipped with Laboratory equipments of general testing and sophisticated instrumental testing along with spray application, resin manufacturing, paint and ink manufacturing etc. The department is government recognized for providing the certificates and test reports to various government and private agencies. The consultancy and certificates are provided by experienced faculty members of the department. The department is accredited by national board of accreditation of aicte. The average placement of the department in last 10 years is 95%. The department is running Paint and Coating technologists' Association (PACT) from more than 20 years. The aim of the association is to develop the brotherhood, Sharing industrial knowledge amongst the paint technologists.

#### Plastic Technology

The Department of Plastic Technology was established in 1964. At that time B.Sc. Chemical Technology degree course of 3-year duration was started. In 1991 the course was upgraded to B. Tech. 4-year degree course after 10+2. Besides this, department also offers Doctoral programme in Plastic Technology & Applied Chemistry. The curriculum of these programs encompasses latest developments in the field as well as present and future needs of the industry. Constant efforts are being put up to maintain the high standards of this department to be ranked as one of the best in India. The Department strives to provide its students with facilities and environment that are conducive for creative and dynamic work. The Department has contributed by way of paper publications in National/International journals of repute and by paper presentations in National/International conferences. The department has run various R&D projects sponsored by AICTE, DMSRDE, UPCST etc. It has also undertaken relevant research projects, which serves the interest of the industries.

### About HBTU Kanpur

It roots back to 1920 when the government of United Provinces established "Government Research Institute" in 1921. Finally in 1926 it got the name "Harcourt Butler Technological Institute" by which we had been knowing it till August 2016. From September 2016 HBTU Kanpur got the status of HBTU Kanpur i.e. Harcourt Butler Technical University Kanpur, by Government of Uttar Pradesh. It was previously a Government Organization, but w.e.f. 26.03.1965, it was declared as an autonomous body and thereafter became University. The HBTU Kanpur is technical university, financially aided by UP government.

**Registration and Feedback  
submission is mandatory for  
E-certificates**



Scan this QR Code for FREE Registration  
or click on the following link  
<https://forms.gle/hRh4imAcE7vTRMbd7>

### Organizing Committee

#### Patron

Prof. Samsher, Hon'ble Vice Chancellor  
HBTU Kanpur

#### General Chair

Prof. Alak Kumar Singh, Dean  
School of Chemical Technology

#### Chairpersons

Dr. Arun Maitani, Professor & Head  
Department of Paint Technology  
Dr.(Mrs.) Indira Nigam, Professor & Head  
Department of Plastic Technology

#### Coordinators

Dr. Pramod Kumar, Visiting Professor  
Dept. of Paint Technology  
Dr. Deepak Srivastava, Professor  
Dept. of Plastic Technology

#### Convenors

Dr. P. K. Kamani, Professor  
Dept. of Paint Technology  
Dr. (Mrs.) Reena Singhal, Professor  
Dept. of Plastic Technology

#### Members

Mr. M.I. Khan, Guest Faculty  
Mr. Sunil Mehrotra, Guest Faculty  
Mr. B.M. Singh, Guest Faculty  
Mr. Ghanshyam, Guest Faculty  
Mr. Durgesh Kumar Soni, Ph.D. Scholar

#### Contact Person

Prof. Pramod Kumar, Coordinator  
E-mail: [arunmaitani@hbtu@gmail.com](mailto:arunmaitani@hbtu@gmail.com)  
Mobile: 9450333749

## Paint Technology





100 YEARS  
1921-2021

One Day National Webinar  
on  
Paints & Coatings



ORGANIZED JOINTLY BY  
PAINT AND COATING TECHNOLOGISTS' ASSOCIATION (PACT)

&  
DEPARTMENT OF PAINT TECHNOLOGY  
Harcourt Butler Technical University, Kanpur

(As a part of Centenary Year Celebration of HBTU, Kanpur)

NOVEMBER 20, 2021  
(SATURDAY)  
TIME: 2:00 PM TO 5:00 PM  
PLATFORM: GOOGLE MEET

SPEAKER: MR. PAWAN VIJ (PAINT TECHNOLOGIST)

Topics

- Corrosion Protection in Automotive Industry
- Life Beyond Books



Prof. Bamber

PACT HD  
Hon'ble Vice-Chancellor,  
HBTU Kanpur



Dr. B. C. Srivastava

General Chair  
MD, N-Tech (India) Ltd  
President-PACT



Dr. Ansh Kumar Singh

Organizing Chair  
Dean,  
School of Chemical Technology



Dr. Arun Mathani

Chairman  
Professor & Head, Department of  
Paint Technology, HBTU Kanpur  
Hon. J. Secretary-PACT



Dr. P. K. Kamani

Organizing Secretary  
Professor, Department of Paint  
Technology, HBTU Kanpur  
Hon. Secretary-PACT

Organizing Committee

Dr. Prasad Kumar, Visiting Professor  
Department of Paint Technology, HBTU Kanpur  
Hon. Vice President-PACT

Mr. B. M. Singh, Guest Faculty  
Department of Paint Technology, HBTU Kanpur  
Member-PACT

Mr. M. I. Khan, Guest Faculty  
Department of Paint Technology, HBTU Kanpur  
Member-PACT

Mr. Ghanshyam, Guest Faculty  
Department of Paint Technology, HBTU Kanpur  
Hon. Treasurer-PACT

Mr. Sunil Moharana, Guest Faculty  
Department of Paint Technology, HBTU Kanpur  
Member-PACT

Mr. Durgesh Rani, Research Scholar  
Department of Paint Technology, HBTU Kanpur  
Member-PACT



Target Audience: Students, Research Scholars, Faculty Members, Industry personnel related to Paints and Polymer Technology  
Registration and Feedback submission is mandatory for E-Certificates.

For FREE Registration click on the  
following link or scan the QR Code  
<https://forms.gle/Feicpn22os4ZAf2GA>



Contact Person

Dr. P. K. Kamani, Organizing Secretary  
Professor, Department of Paint Technology  
Harcourt Butler Technical University, Kanpur- 208002  
E-mail: [pkamani@hbtu.ac.in](mailto:pkamani@hbtu.ac.in)  
Mobile: 8808500783

School of Basic & Applied Sciences

Chemistry

## INTRODUCTION

The FDP organizing institution, "Harcourt Butler Technical University (HBTU) Kanpur" was upgraded into a University in year 2016 by the Government of Uttar Pradesh, India with a view for making it a leading Residential University to become a Centre of Excellence with focus on Research & Development and Incubation in the field of Engineering, Technology, Basic & Applied Sciences, Humanities, Social Science & Management, Architecture (proposed) and other professional courses. HBTU Kanpur aims to achieve excellence in higher education.

The FDP organizing department, the Department of Chemistry, HBTU Kanpur has built up a comprehensive research infrastructure with top-notch facilities for carrying cutting-edge teaching and research and has produced a large number of Ph.Ds. who are spreading their knowledge in major research Institutions/State Universities/ Central Universities in India and Abroad.

## WHO CAN REGISTER?

Teachers of AICTE approved Technical Institutions/ UGC Affiliated Universities and degree colleges.

## MAXIMUM NUMBER OF PARTICIPANTS

50 (Fifty only, on first come first serve basis)

## REGISTRATION FEE

Rs.10,000 for Industry persons /Rs.5000 for TEQIP Institute's teachers/Rs.2500 for Non-TEQIP Institute's teachers and Teachers (regular/temporary/contractual/guest) from HBTU, Kanpur exempted. Registration fee may be paid in the form of DD in favour of "The Finance Controller, HBTU, Kanpur" payable at Kanpur

*No TADA or any other payment will be made to participants. Boarding, lodging and all other expenses will be borne by the registered participants or their institution.*

## Important Dates:

Last date for receiving Registration Form:  
November 26, 2018

Information about confirmation of Registration:  
November 28, 2018

## Patron

**Prof. N.B. Singh**  
Hon'ble Vice-Chancellor,  
HBTU, Kanpur

## Coordinator, TEQIP-III

**Prof. Rachna Asthana**  
Professor & Head  
Department of Electronics Engineering  
HBTU, Kanpur

## Chairperson

**Prof. Reeha Ball**  
Dean  
School of Basic and Applied Sciences  
HBTU, Kanpur

## ORGANIZING COMMITTEE

### Convener

**Dr. C. L. Gehlot**  
Department of Chemistry, HBTU, Kanpur  
Email: c.l9946@gmail.com  
Mobile: 7081300511

### Members

**Prof. R.K. Shukla**  
Department of Physics, HBTU, Kanpur

**Dr. S.K.Gupta, Head**  
Chemical Engineering, HBTU, Kanpur

**Dr. Sadhna Puri, Dr. Danyanti Aggarwal**

**Dr. Minakshi Garg and**

**Dr. Sudhir Kr. Gupta**

Department of Chemistry, HBTU, Kanpur

## CONTACT

**Dr. Sadhna Puri**  
**Dr. Danyanti Aggarwal**  
**Dr. Minakshi Garg**  
**Dr. Sudhir Kr. Gupta**  
Department of Chemistry,  
School of Basic & Applied Sciences,  
HBTU Kanpur

**Email: idpchem.hbtu@gmail.com**  
**Mobile: 9415126868, 7905875307, 9140898144**

## A Four Days Faculty Development Programme

On

## "Material Synthesis and Advanced Characterization Techniques"

(December 01 – 04, 2018)

Under



Convener

**Dr. C. L. Gehlot**

Organised By:

Department of Chemistry,  
School of Basic and Applied Sciences



Harcourt Butler Technical University, Kanpur-  
208002 (U.P.) India

## ABOUT H.B.T.U. KANPUR

Harcourt Butler Technical University, Kanpur came into existence on September 01, 2016 by U.P. Govt. Act. No. 11, 2016 as a result of the up-gradation of Harcourt Butler Technological Institute. It was established in 1921 as a 'Government Technological Institute' by Sir Spencer Harcourt Butler, the first Governor of United Provinces (now Uttar Pradesh) and was renamed as HBTU in 1926. In view of timely realization of need of scientific and technological advancement required for the industrial growth in order to meet the aspirations of society, various post-graduate Diploma, Graduate, Post-graduate and Doctoral programmes in Science, Engineering and Technology were started from time to time for the development of trained scientific, technological and engineering manpower equipped with sound theoretical knowledge, in-depth understanding and practical experience in the area of relevant specialization. It has served the nation for 97 years by its tradition of excellence in technology & engineering education, research and innovations.

It is the mother/mentor institution of National Sugar Institute, Kanpur; Indian Institute of Technology, Kanpur; Rajkiya Engineering College, Bijnor; Rajkiya Engineering College, Kannauj and Rajkiya Engineering College Mainpuri. As HBTU, it has the desired autonomy to excel and shape itself as a world class Technological University.

On academic front, the University is running four Schools: School of Engineering, School of Chemical Technology, School of Basic & Applied Sciences, School of Humanities & Social Sciences with thirteen Undergraduate Programmes in Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Information Technology, Leather Technology, Mechanical Engineering, Biochemical Engineering, Food Technology, Oil Technology, Paint Technology and Plastic Technology along with M.C.A. full time & part time M.Tech. Programmes in various disciplines and full time and part time Ph.D. programmes in number of disciplines as part of Quality Improvement Programme of MHRD and TEQIP-III. In view of the emerging need of the time, the University is planning to start number of programmes at undergraduate and post graduate levels in the near future.

The University provides a congenial environment for the holistic growth and all round development of the students so that they become globally acceptable personalities with excellent communication skills, proper attitudes, aptitudes, problem solving capabilities and to work as a team.

## ABOUT DEPARTMENT OF CHEMISTRY

Department of Chemistry is one of the oldest departments of this University which is running since inception. The department has formulated a dynamic and relevant curriculum for UG program being run in the University and possesses an excellent infrastructure. The basic aim of this department is to introduce new combination of theoretical studies, technologies in industrial applications and research oriented activities. To carry out research in cutting edge areas both basic and applied nature at par with international standards. The Ph.D. students are educated and trained to become world class scientists. The department is globally known and recognized for its outstanding research in polymer science, solar energy conversion and storage, chemical kinetics, organic synthesis, water treatment, environmental chemistry and spectroscopy.

In order to meet the demand of skilled manpower in emerging areas of Chemistry, the department has suitable infrastructure supported by modern equipments to train the students. The department imparts education in physical, organic, inorganic, analytical and industrial Chemistry at UG and Ph.D. level. The department has excellent research outputs that are comparable to any high profile academic institution. The department has run several research programs/schemes sponsored by the national funding agencies like UGC, CSIR, DST, ICAR, UPSCST, AICTE and INSA etc. The qualified and dedicated faculty of this department have written several books on the various fields of chemistry and published good number of research papers in National (around 200) and International (around 300) journals of repute. The department has organized a number of National/International conferences, seminars and expert lectures. The chemistry department imports testing and consultancy facilities to the industries of Kanpur and nearby areas to improve the quality of their products. The main strength of the department has been research and developments in last eight decades.

## A Four Days Faculty Development Programme (FDP) On

## "Material Synthesis and Advanced Characterization Techniques"



(December 01– 04, 2018)

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

E-mail and Mobile No.: \_\_\_\_\_

Accommodation requirement on availability in the institute's Guest House on payment:	Yes /No

Recommended and Approved by:

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

(Signature & Seal of HoD / Dean)



# Mathematics



HARCOURT BUTLER  
TECHNICAL UNIVERSITY,  
KANPUR, U.P.

## Webinar

on

"Applications of Mathematical  
Modelling in Sciences,  
Engineering and Technology"

Date: 9<sup>th</sup> October, 2021

Time: 11:00 am- 1:00 pm



Patron:

**Prof. Samsher**

Hon'ble Vice Chancellor,  
HBTU, Kanpur

Registration Link :

<https://forms.gle/zqyEahjSZ9vnz9tMA>



Chairman

**Prof. Ram Autar**

Head, Department of  
Mathematics, Dean, School of  
Basic & Applied Sciences, HBTU,  
Kanpur



Convener

**Prof. Rekha Bali**

Department of Mathematics,  
HBTU, Kanpur



Convener

**Prof. Ram Naresh**

Department of Mathematics,  
HBTU, Kanpur



Speaker

**Dr. Lalit Singh**

Scientist  
NPCIL-BARC  
Department of Atomic Energy  
Govt. of India

Organized

By

**Department of  
Mathematics, HBTU,  
Kanpur**

*Organizing Secretaries:*

*Dr. Pratibha Mishra (Mb. 9580737241)*

*Dr. Swati Mishra (Mb. 8318405054)*

*Dr. Chamma Awasthi*

*Dr. Ramashray Singh*

**Student Members:**

Mr. Anuj Kumar

Ms. Bhawini Prasad

Mrs. Ragini Tripathi

Mrs. Monika Trivedi

# School of Humanities and Social Sciences

7:06

VaLTE 1

webinar on communication



**WEBINAR**  
On  
**30 September**  
2021



## COMMUNICATION SKILLS FOR NAÏVE PROFESSIONALS

With  
**Dr. N.P.Sudharshan**  
Assistant Professor, IIT Kanpur  
&  
**Dr. Nita (Dave) Jain**  
Retd. Princlal Christ college, Kanpur

1

**Patron**  
Prof. Shamsher  
Hon'ble Vice Chancellor, HRTU, Kanpur

**Chairman**  
Prof. Deepak Srivastava  
Dean SoHSS

**Coveners**  
Dr. Vinod Yadav  
HOD SoHSS  
Dr. Bandana Nigam  
Associate Dean, SoHSS



**Coordinators**  
Sapna Singh  
Dr. Om Nath Trivedi  
Anchit Agrawal  
Anjana Gupta

Registration Link : <https://forms.gle/77Ked5aaNawUjGA>  
Google Meet Link : <https://meet.google.com/mtw-qevn-jmc>  
Session I Time : 10:30 - 12:00 PM  
Session II Time : 1:00 - 3:30 PM  
Attendance will be provided to the registered participants who will attend both the sessions.





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The Coordinator, TEQIP-III  
**HBTU, Kanpur-02**

Date: 03/07/2020

**Subject-** For approval of remuneration as per circular of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492) and providing consent to conduct the Student Training on "Future Skill Technologies (Robotics & Automation)" through Online Mode.

Respected Sir,

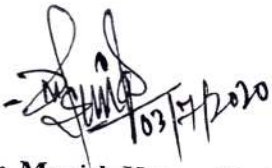
This is to inform you that we are planning to conduct student training programme on future skill technology "**Robotics & Automation**" as per direction of NPIU (letter No. NPIU/TEQIP-III/Acad/2020/492). In this series, we have made two batches (**55 students in each batch**) after taking willingness of students through Google form. The proposed Lecture delivery plan (tentative) and details of students in list of Batches are attached herewith this letter. As per curriculum provided by NPIU and IIT Kanpur, the total hours taken to complete the curriculum is **180 hours (90 Theory + 90 Lab hrs.)**.

Therefore we request you to permit us to conduct the training programme and approve the remuneration for faculty mentors i.e. **Rs. 700/-** per hour as per circular of NPIU (detailed circular from NPIU is enclosed herewith).

Thanking you in anticipation.

With warm regards

\* Original approval is attached in  
Dr. Raghunendra Singh's payment  
file of Online future skill technology.



**Dr. Manish Kumar Singh**  
Assistant Professor (TEQIP-III)  
ETD, HBTU Kanpur



**Mr. Dharmendra Kumar Singh**  
Assistant Professor (TEQIP-III)  
ETD, HBTU Kanpur



ANNEX:1

(X)

Certificate

This is to certify that, the student's training on the Future Skill Technologies entitled "Robotics and Automation" has been conducted through Online Mode using google classroom and attendances were recorded through google meet platform simultaneously. Due to poor internate connectivity/ fluctuation of network, students joined many time, therefore in attendance-sheets names of few students are looking to be repeated. As per guideline of NPIU, the hands-on/ notes were provided to students through several platform like google classroom, whatsapp numbers/ group. Telephonic conversations/discussions were also adopted for clearing the individual doubts of students. Total number of student appeared in the final assessment conducted by NASSCOM is 65 (both batches) whose scores/result has been attached.



(Dr. Manish Kumar Singh)  
Faculty for online training on Future Skill Technology  
for Robotics and Automation



ANNEX: 2

(6)

### Summary / Achievement Report

The students training on the future skill technology entitled "Robotics and Automation" has been conducted through online mode using google classroom. As per guideline of NPIU, the hands-on/ notes were provided to students through several platform like google classroom, whatsapp numbers/ group. Telephonic conversations/discussions were also adopted for clearing the individual doubts of students. The final scores/result declared by NASSCOM has been attached.



(Dr. Manish Kumar Singh)  
Faculty for online training on Future Skill Technology  
for Robotics and Automation

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**REGISTERED STUDENTS LIST  
(Batch I: Robotics & Automation)**

Sr. No.	Email	Name of Student	Year	Branch	Roll No	Contact Number	Training Area
1	170101009@hbtu.ac.in	Kirti yadav					
2	190101035@hbtu.ac.in	Sumit Srivastava	III BTech	Bio-Chemical Engg.	170101009	8787065138	Robotics and Automation
3	170101013@hbtu.ac.in	Nemishi Arvind	I BTech	Bio-Chemical Engg.	190101035	8081206832	Robotics and Automation
4	190101035@hbtu.ac.in	Sumit Srivastava	III BTech	Bio-Chemical Engg.	170101013	7310095537	Robotics and Automation
5	180101003@hbtu.ac.in	Akash sahu	I BTech	Bio-Chemical Engg.	190101035	8081206832	Robotics and Automation
6	180103023@hbtu.ac.in	Mayank Agrawal	II BTech	Bio-Chemical Engg.	180101003	8318271017	Robotics and Automation
7	190103056@hbtu.ac.in	Shubham Kumar Yadav	II BTech	Chemical Engg.	180103023	7080444240	Robotics and Automation
8	190103054@hbtu.ac.in	Shubham Gupta	I BTech	Chemical Engg.	190103056	7240026564	Robotics and Automation
9	190105028@hbtu.ac.in	Ritik Mahawar	I BTech	Chemical Engg.	190103054	9120585755	Robotics and Automation
10	190105002@hbtu.ac.in	Aayush Patel	I BTech	Electrical Engg.	190105028	9649439824	Robotics and Automation
11	190105044@hbtu.ac.in	Yash Yuvraj Singh	I BTech	Electrical Engg.	190105002	9838372651	Robotics and Automation
12	190105036@hbtu.ac.in	Shweta Anand	I BTech	Electrical Engg.	190105044	9660823027	Robotics and Automation
13	190106031@hbtu.ac.in	Pradum Pal	I BTech	Electrical Engg.	190105036	8303776392	Robotics and Automation
14	190106052@hbtu.ac.in	Sudheer Singh	I BTech	Electronics Engg.	190106031	9571109091	Robotics and Automation
15	190106028@hbtu.ac.in	Pankhuri Tripathi	I BTech	Electronics Engg.	190106052	6386066457	Robotics and Automation
16	180205018@hbtu.ac.in	Ashutosh Pandey	I BTech	Electronics Engg.	190106028	6306437660	Robotics and Automation
17	190107038@hbtu.ac.in	YATENDRA CHAUHAN	II MTech	Electronics Engg.	180205018	8052377392	Robotics and Automation
18	180107030@hbtu.ac.in	Tejasvi Sinha	I BTech	Food Technology	190107038	7014491474	Robotics and Automation
19	170110023@hbtu.ac.in	Bharat Tripathi	II BTech	Food Technology	180107030	9125855594	Robotics and Automation
20	180112022@hbtu.ac.in	Pushkar Pandey	III BTech	Mechanical Engg.	170110023	8368220429	Robotics and Automation
21	180110051@hbtu.ac.in	Sarthak Gupta	II BTech	Mechanical Engg.	180112022	8896741773	Robotics and Automation
22	180110049@hbtu.ac.in	RAHUL MAURYA	II BTech	Mechanical Engg.	180110051	7985931246	Robotics and Automation
23	180110019@hbtu.ac.in	ARCHIT GARG	II BTech	Mechanical Engg.	180110049	8052967988	Robotics and Automation
24	180110042@hbtu.ac.in	Prakhar Srivastava	II BTech	Mechanical Engg.	180110019	9452396775	Robotics and Automation
25	180110016@hbtu.ac.in	Anirudh Gupta	II BTech	Mechanical Engg.	180110042	7007897275	Robotics and Automation
26	180110046@hbtu.ac.in	PRATEEK SRIVASTAVA	II BTech	Mechanical Engg.	180110016	9027410915	Robotics and Automation
27	180110034@hbtu.ac.in	Himanshu	II BTech	Mechanical Engg.	180110046	6391936881	Robotics and Automation
28	180110037@hbtu.ac.in	Mayank Chaudhary	II BTech	Mechanical Engg.	180110034	8887910045	Robotics and Automation
29	180110017@hbtu.ac.in	Anish Vishwakarma	II BTech	Mechanical Engg.	180110037	6397254994	Robotics and Automation
30	180110032@hbtu.ac.in	Drashti	II BTech	Mechanical Engg.	180110017	7309638931	Robotics and Automation
31	180110058@hbtu.ac.in	Vikas Verma	II BTech	Mechanical Engg.	180110032	6386185776	Robotics and Automation
32	180110009@hbtu.ac.in	Akhilesh Kumar Singh	II BTech	Mechanical Engg.	180110058	9838176426	Robotics and Automation
33	180110011@hbtu.ac.in	Akshdeep Vatsal	II BTech	Mechanical Engg.	180110009	8009305355	Robotics and Automation
34	190110067@hbtu.ac.in	Uday gupta	II BTech	Mechanical Engg.	180110011	9720239095	Robotics and Automation
35	170111001@hbtu.ac.in	Abhishek Mishra	I BTech	Mechanical Engg.	190110067	9807748401	Robotics and Automation
36	170111016@hbtu.ac.in	Sandesh	IV BTech	Oil Technology	170111001	6306641946	Robotics and Automation
37	180111015@hbtu.ac.in	Diksha sachan	III BTech	Oil Technology	170111016	7905763965	Robotics and Automation
38	180111008@hbtu.ac.in	Ankit	II BTech	Oil Technology	180111015	7355478083	Robotics and Automation
39	180111029@hbtu.ac.in	Yash Kumar singh	II BTech	Oil Technology	180111008	9696855268	Robotics and Automation
40	180111024@hbtu.ac.in	Shambhavi Awasthi	II BTech	Oil Technology	180111029	9993550858	Robotics and Automation
41	180101010@hbtu.ac.in	Arpit kumar	II BTech	Oil Technology	180111024	8630741633	Robotics and Automation
42	190111016@hbtu.ac.in	Himanshu Sharma	II BTech	Oil Technology	180101010	6394773241	Robotics and Automation
43	170101020@hbtu.ac.in	Seemendra Shukla	I BTech	Oil Technology	190111016	8318725830	Robotics and Automation
44	180113028@hbtu.ac.in	Utkarsh Tripathi	III BTech	Paint Technology	170101020	8417964745	Robotics and Automation
45	190112012@hbtu.ac.in	GEETANJALI PRAKASH	II BTech	Paint Technology	180113028	9616263091	Robotics and Automation
46	170109008@hbtu.ac.in	Ashish kumar	I BTech	Plastic Technology	190112012	9369258045	Robotics and Automation
47	190111013@hbtu.ac.in	Ayush Agnihotri	III BTech	Leather Technology	170109008	7355073459	Robotics and Automation
48	190111034@hbtu.ac.in	Vansh Gupta	I BTech	Oil Technology	190111013	8318861964	Robotics and Automation
49	180101016@hbtu.ac.in	Himanshu Kumar	I BTech	Oil Technology	190111034	6392586604	Robotics and Automation
50	190113011@hbtu.ac.in	Ayush Srivastava	II BTech	Oil Technology	180101016	6734562789	Robotics and Automation
51	170113003@hbtu.ac.in	Aishwarya Mathur	I BTech	Paint Technology	190113011	7905139688	Robotics and Automation
52	180112028@hbtu.ac.in	Vansh Gupta	III BTech	Paint Technology	170113003	9559063395	Robotics and Automation
			II BTech	Plastic Technology	180112028	8887808261	Robotics and Automation

*[Signature]*

*[Signature]*



Security

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# Online Future Skill Training on "Robotics & Automation" ATTENDENCE SHEET

Date: 16.08.2020

Time-duration: 3 Hrs. 6-109 PM

Batch: 01

Day 1: 16 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/16/2020 18:03:52	Anish Vishwakarma	180110017	Mechanical engineering	16/08/2020
8/16/2020 18:05:43	Sudheer Singh	190106052	Electronics Engineering	16/08/2020
8/16/2020 18:06:49	Akshdeep Vatsal	180110011	Mechanical Engineering	16/08/2020
8/16/2020 18:06:58	PRATEEK SRIVASTAVA	180110046	Mechanical Engineering	16/08/2020
8/16/2020 18:09:10	Drashti	180110032	Mechanical engineering	16/08/2020
8/16/2020 18:10:19	Utkarsh Tripathi	180113028	3rd pt	16/08/2020
8/16/2020 18:12:42	Ritik Mahawar	190105028	EE	16/08/2020
8/16/2020 18:13:56	Shubham Gupta	190103054	Chemical Engineering	16/08/2020
8/16/2020 18:15:24	Akhilesh Kumar Singh	180110009	Mechanical Engineering	16/08/2020
8/16/2020 18:26:33	RAHUL MAURYA	180110049	Mechanical engg.	16/08/2020
8/16/2020 18:33:54	Anirudh Gupta	180110016	Mechanical	16/08/2020
8/16/2020 18:44:04	Ankit yadav	180111008	Oil technology	16/08/2020
8/16/2020 19:54:18	Pankhuri Tripathi	190106028	Electronics	16/08/2020
8/16/2020 19:54:41	Drashti	180110032	Mechanical engineering	16/08/2020
8/16/2020 19:56:28	Tejasvi Sinha	180107030	Food Technology	16/08/2020
8/16/2020 19:56:58	Vikas Verma	180110058	Mechanical Engineering	16/08/2020
8/16/2020 19:59:22	Pushkar Pandey	180112022	Mechanical Engineering	16/08/2020
8/16/2020 20:15:53	Shweta Anand	190105036	Electrical	16/08/2020
8/16/2020 20:25:18	Archit Garg	180110019	Mechanical Engineering	16/08/2020
8/16/2020 20:36:47	VAISHALI KUSHAWAHA	190205017	ET	16/08/2020
8/16/2020 20:42:02	Shalini kumari	190205011	ET	16/08/2020
8/16/2020 20:45:13	Geetanjali Prakash	190112012	Plastic Technology	16/08/2020
8/16/2020 20:48:23	Yatendra Chauhan	190107038	Food Technology	16/08/2020
8/16/2020 20:51:45	SARTHAK GUPTA	180110051	Mechanical Engineering	16/08/2020
8/16/2020 20:55:31	BHARAT TRIPATHI	170110023	MECHANICAL ENGINEERING	16/08/2020
8/16/2020 20:58:07	Aayush Patel	190105002	Electrical Engineering	16/08/2020

*[Signature]*

*[Signature]*

*[Signature]*

# Online Future Skill Training on "Robotics & Automation" ATTENDANCE SHEET

Date: 17.08.2020

Time-duration: 03 Hrs.

Batch: 01

Day 2: 17 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/17/2020 18:02:23	Sudheer Singh	190106052	Electronics Engineering	17/08/2020
8/17/2020 18:04:45	Akshdeep Vatsal	180110011	Mechanical Engineering	17/08/2020
8/17/2020 18:05:59	Utkarsh Tripathi	180113028	3RD PT	17/08/2020
8/17/2020 18:07:48	Ritik Mahawar	190105028	EE	17/08/2020
8/17/2020 18:09:30	Shubham Gupta	190103054	Chemical Engineering	17/08/2020
8/17/2020 18:10:29	Akhilesh Kumar Singh	180110009	ME	17/08/2020
8/17/2020 18:13:52	Anirudh Gupta	180110016	Mechanical	17/08/2020
8/17/2020 18:24:56	Ankit yadav	180111008	OT	17/08/2020
8/17/2020 18:34:24	Drashti	180110032	Mechanical engineering	17/08/2020
8/17/2020 18:41:33	Vikas Verma	180110058	Mechanical Engineering	17/08/2020
8/17/2020 18:53:54	Pushkar Pandey	180112022	Mechanical Engineering	17/08/2020
8/17/2020 19:04:04	Archit Garg	180110019	Mechanical Engineering	17/08/2020
8/17/2020 19:22:18	VAISHALI KUSHAWAHA	190205017	ET	17/08/2020
8/17/2020 19:34:28	Shweta Anand	190105036	Electrical	17/08/2020
8/17/2020 19:55:41	Shalini kumari	190205011	ET	17/08/2020
8/17/2020 19:57:58	Geetanjali Prakash	190112012	Plastic Technology	17/08/2020
8/17/2020 20:03:22	Yatendra Chauhan	190107038	Food Technology	17/08/2020
8/17/2020 20:15:31	SARTHAK GUPTA	180110051	Mechanical Engineering	17/08/2020
8/17/2020 20:25:53	BHARAT TRIPATHI	170110023	MECHANICAL ENGINEERING	17/08/2020
8/17/2020 20:36:18	Anish Vishwakarma	180110017	Mechanical engineering	17/08/2020
8/17/2020 20:47:47	Aayush Patel	190105002	Electrical Engineering	17/08/2020
8/17/2020 20:51:02	Himanshu	180110034	Mechanical engineering	17/08/2020
8/17/2020 20:54:15	Yash Yuvraj Singh	190105044	Electrical Engineering	17/08/2020
8/17/2020 20:56:25	Pradum Pal	190106031	Electronics Engineering	17/08/2020
8/17/2020 20:57:47	Himanshu Gautam	180101016	Biochemical engineering	17/08/2020
8/17/2020 20:58:02	Kirti Yadav	170101009	Biochemical Engineering	17/08/2020

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# Online Future Skill Training on "Robotics & Automation" ATTENDENCE SHEET

53

Date: 18.08.2020

Time duration: 03 hr.

Batch: 01

Day 3: 18 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/18/2020 18:01:23	Akshdeep Vatsal	180110011	Mechanical Engineering	18/08/2020
8/18/2020 18:03:45	Utkarsh Tripathi	180113028	3rd pt	18/08/2020
8/18/2020 18:06:59	Ritik Mahawar	190105028	EE	18/08/2020
8/18/2020 18:08:48	Shubham Gupta	190103054	Chemical Engineering	18/08/2020
8/18/2020 18:09:30	AKHILESH KUMAR SINGH	180110009	ME	18/08/2020
8/18/2020 18:11:29	Anirudh Gupta	180110016	Mechanical	18/08/2020
8/18/2020 18:15:52	Ankit yadav	180111008	Oil technology	18/08/2020
8/18/2020 18:23:56	Drashti	180110032	Mechanical engineering	18/08/2020
8/18/2020 18:33:24	Vikas Verma	180110058	Mechanical Engineering	18/08/2020
8/18/2020 18:47:33	Pushkar Pandey	180112022	Mechanical Engineering	18/08/2020
8/18/2020 18:54:54	Archit Garg	180110019	Mechanical Engineering	18/08/2020
8/18/2020 19:02:04	Shweta Anand	190105036	Electrical	18/08/2020
8/18/2020 19:25:18	Shalini kumari	190205011	ET	18/08/2020
8/18/2020 19:35:28	Geetanjali Prakash	190112012	Plastic Technology	18/08/2020
8/18/2020 19:56:41	Yatendra Chauhan	190107038	Food Technology	18/08/2020
8/18/2020 19:57:58	SARTHAK GUPTA	180110051	Mechanical Engineering	18/08/2020
8/18/2020 20:07:22	BHARAT TRIPATHI	170110023	MECHANICAL ENGINEERING	18/08/2020
8/18/2020 20:16:31	Anish Vishwakarma	180110017	Mechanical engineering	18/08/2020
8/18/2020 20:27:53	Aayush Patel	190105002	Electrical Engineering	18/08/2020
8/18/2020 20:37:18	Himanshu	180110034	Mechanical engineering	18/08/2020
8/18/2020 20:48:47	Yash Yuvraj Singh	190105044	Electrical Engineering	18/08/2020
8/18/2020 20:53:02	VAISHALI KUSHAWAHA	190205017	ET	18/08/2020
8/18/2020 20:55:15	Pradum Pal	190106031	Electronics Engineering	18/08/2020
8/18/2020 20:56:25	Himanshu Gautam	180101016	Biochemical engineering	18/08/2020
8/18/2020 20:57:47	Sudheer Singh	190106052	ET	18/08/2020
8/18/2020 20:57:52	Kirji Yadav	170101009	Biochemical Engineering	18/08/2020

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# Online Future Skill Training on "Robotics & Automation" ATTENDANCE SHEET

Date: 19.08.2020

Time-duration: 03 hrs.

Batch: 01

Day 4: 19 Aug 2020

Timestamp	Name	Roll no	Branch	Date
8/19/2020 18:03:21	Akshdeep Vatsal	180110011	Mechanical Engineering	19/08/2020
8/19/2020 18:05:42	Ritik Mahawar	190105028	EE	19/08/2020
8/19/2020 18:06:53	Utkarsh Tripathi	180113028	3rd pt	19/08/2020
8/19/2020 18:07:45	Shubham Gupta	190103054	Chemical Engineering	19/08/2020
8/19/2020 18:08:31	Shubham Gupta	190103054	Chemical engineering	19/08/2020
8/19/2020 18:11:27	AKHILESH KUMAR SINGH	180110009	ME	19/08/2020
8/19/2020 18:12:55	Anirudh Gupta	180110016	Mechanical	19/08/2020
8/19/2020 18:23:59	Ankit yadav	180111008	OT	19/08/2020
8/19/2020 18:35:21	Drashti	180110032	Mechanical engineering	19/08/2020
8/19/2020 18:42:31	Vikas Verma	180110058	Mechanical Engineering	19/08/2020
8/19/2020 18:55:52	Pushkar Pandey	180112022	Mechanical Engineering	19/08/2020
8/19/2020 19:05:09	Archit Garg	180110019	Mechanical Engineering	19/08/2020
8/19/2020 19:23:19	Shweta Anand	190105036	Electrical	19/08/2020
8/19/2020 19:36:29	Shalini kumari	190205011	ET	19/08/2020
8/19/2020 19:57:43	Geetanjali Prakash	190112012	Plastic Technology	19/08/2020
8/19/2020 19:58:51	Yatendra Chauhan	190107038	Food Technology	19/08/2020
8/19/2020 20:04:25	SARTHAK GUPTA	180110051	Mechanical Engineering	19/08/2020
8/19/2020 20:17:35	BHARAT TRIPATHI	170110023	MECHANICAL ENGINEERING	19/08/2020
8/19/2020 20:27:59	Anish Vishwakarma	180110017	Mechanical engineering	19/08/2020
8/19/2020 20:36:19	Himanshu	180110034	Mechanical engineering	19/08/2020
8/19/2020 20:49:49	Yash Yuvraj Singh	190105044	Electrical Engineering	19/08/2020
8/19/2020 20:52:05	VAISHALI KUSHAWAHA	190205017	ET	19/08/2020
8/19/2020 20:55:17	Pradum Pal	190106031	Electronics Engineering	19/08/2020
8/19/2020 20:57:27	Himanshu Gautam	180101016	Bio chemical engineering	19/08/2020
8/19/2020 20:57:49	Sudheer Singh	190106052	ET	19/08/2020
8/19/2020 20:58:03	Kirti Yadav	170101009	Biochemical Engineering	19/08/2020

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