



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

NAWABGANJ, KANPUR - 208002, U.P., INDIA

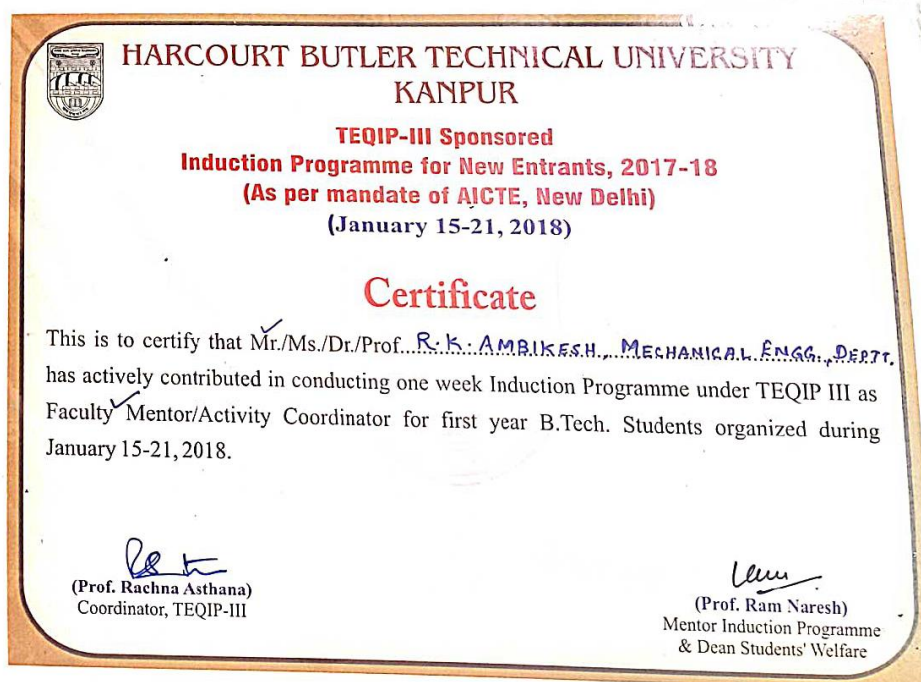
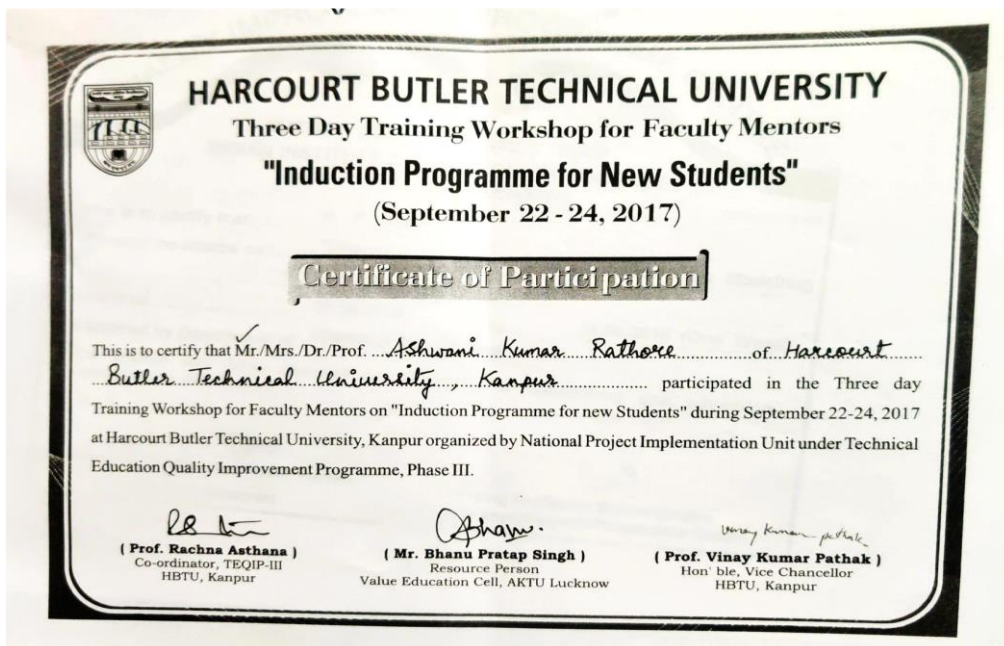
(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone : +91-0512-2534001-5, 2533812, website : <http://www.hbtu.ac.in>, Email : vc@hbtu.ac.in

100 YEARS
1921 - 2021

6.3.3 Average number of professional development/ administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years

(2017-18)



(2018-19)

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NATIONAL CONFERENCE

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Associate Professor, School of HSS

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Ms. Harshmit Kaur Saluja
Mr. Abhay Singh
Ms. Tanu Singh

Last Date for Abstract Submission: Jan. 05, 2019

Last Date for Registration: Feb 25, 2019

Visit at: <https://sites.google.com/view/edti/>

CONTACT ADDRESS

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NATIONAL CONFERENCE

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Development
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Technological
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MARCH 01-02, 2019



Organized by
**SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES**

**HARCOURT BUTLER
TECHNICAL UNIVERSITY**
NAWABGANJ, KANPUR 208002

ABOUT THE UNIVERSITY



Harcourt Butler Technical University (formerly Harcourt Butler Technical Institute), Kanpur was brought into effect in the year 2016 by the Government of Uttar Pradesh with a view for making it a leading residential university to become a centre of excellence with focus on Research and Development and Incubation in the field of Engineering, Technology, Basic & Applied Sciences, Humanities, Social Science & Management Architecture and other professional courses. The University provides a congenial environment for the holistic growth and all round development of the students such that they become globally acceptable personalities with communication skills, proper attitudes, aptitudes, problem solving capabilities and to work as a team. The faculty members have contributed large numbers of research papers in Indian as well as International journals. Besides, many R&D Schemes sponsored by D.S.T, U.G.C, I.C.S.S.R, I.C.A.R, D.R.D.O, U.P.C.S.T, C.S.I.R, D.A.E, I.C.M.R, D.O.E and Ministry of Civil Supplies have been successfully completed. All these accomplishments definitely prove it to be a prolific ground for nurturing intellect.

ABOUT THE CONFERENCE

The Conference on Entrepreneurship Development & Technological Innovation encompasses the vision of introducing innovative ideas into day-to-day activities falling under all the relevant areas of technology, engineering & social sciences (management & economics). The conference looks forward to create a platform where people from various core as well as new areas of engineering and social sciences can come together & share their views & opinions which can bring about some changes & innovation in the traditional methods of production, operations, marketing & other functions in the organization culture.

ABOUT THE SCHOOL

School of Humanities & Social Sciences (earlier Department of Humanities) was constituted as a full-fledged school as per HBTU Act in the year 2016. The school has now three areas namely English, Economics and Management offering courses such as professional communication, economics, industrial management, accounting & financial management etc. to B. Tech & MCA students. Besides offering various courses to B. Tech & MCA students, the School runs PhD Programme in 'Economics' & 'Management' subjects. The achievements of the faculty members are much attractive in the fields of research, PhD supervision, publications, participation in conferences, seminars, workshops and short-term refresher courses, organizing seminars, carrying research projects and participation in administrative and students' extracurricular activities.

WHO CAN PARTICIPATE

The conference is open for research scholars with valid identity and active affiliation, faculty members of recognized university / AICTE approved institution and researchers with a registered organization in the area of engineering, technology, economics, management and allied fields. The industry participation is also welcomed with rich experience and exposure

REGISTRATION FEE

Fee should be paid in form of demand draft in favor of "Finance Controller, HBTU Kanpur, payable at Kanpur.

Research Scholar: Rs. 1000;

Faculty Member: Rs. 2000;

Industry: Rs. 3000

PAPER PUBLICATION

All the qualified manuscripts and successfully presented papers in the conference would be considered for the publication in an edited book. Few selected papers, if pass through double blind review process may also be published in a special issue of national / international refereed journal of repute.

THEME OF THE CONFERENCE

Innovation, Incubation and New Ventures

- New Startups, e-startup
- Innovations in MSEs
- Innovation and Digital Economy
- Incubation infrastructure

Operations and Strategic Management

- Artificial Intelligence
- Manufacturing Technologies, Automation
- Industrial Management
- Technology Management
- Total Quality Management
- Logistics Management
- Operations Research
- Supply Chain Management

Business Strategy and Development

- Corporate Entrepreneurship
- Economics of Entrepreneurship
- Entrepreneurial Growth and Performance
- Entrepreneurial Education and Training
- Family Businesses
- Women Entrepreneurship
- Intellectual Property Rights

Government Initiatives


- Public Policy for Entrepreneurship and Innovation
- Financial Institutions and their Role
- Sustainability and Environmental Issues
- Skill Development Mission
- Technical Training and Employability
- Promotion of Innovation and startups

Technological Innovation

- High Technology Entrepreneurship
- Technology Transfer Resource Acquisition
- New Venture Creation/ Risk/ Failure/ Funding
- Digitization
- E-business and e-Commerce

The themes are not limited to mentioned ones. The traditional domains of management are also invited.

(2019-20)

<p style="text-align: center;">REGISTRATION FORM One Week Short Term Training Programme on “Data Analysis And SPSS Software” October 21-25, 2019</p> <p>Last date for receipt of registration form: Oct 15, 2019</p> <p>(The registration form can be downloaded from our website www.hbtu.ac.in. The Xerox copy can also be used)</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</p> <p>Date:</p> <p>Signature of Head of the Institution</p> <p>Date:</p> <p>Official Stamp:</p>	<p style="text-align: center;">Patron Prof. N.B. Singh Hon'ble Vice Chancellor, HBTU Kanpur</p> <p style="text-align: center;">Coordinator, TEQIP-III Prof. Raghuraj Singh Head, Department of Computer Science & Engineering, HBTU Kanpur</p> <p style="text-align: center;">Convener Prof. Rekha Bali Head, Department of Mathematics & Dean, School of Basic and Applied Sciences HBTU Kanpur</p> <p style="text-align: center;">Coordinators Prof. Ram Autar Prof. Ram Naresh Department of Mathematics, HBTU Kanpur</p> <p style="text-align: center;">Members Dr. Raghendra Singh Dr. Shashi Kant Dr. Swati Mishra Dr. Ramashray Singh Yadav Department of Mathematics, HBTU Kanpur</p> <p style="text-align: center;">Advisory Committee Prof. S.U. Siddiqui Prof. K.M. Mohapatra HBTU Kanpur</p> <p style="text-align: center;">Communication Details: Please send the scanned copy of filled registration form to: sttpmath2019@gmail.com Mobile No.: 7081300545, 7081300544, 7081300530</p>	<p style="text-align: center;">One Week Short Term Training Programme On “Data Analysis And SPSS Software” Under TEQIP-III, World Bank Project October 21-25, 2019</p> <div style="text-align: center;"></div> <p style="text-align: center;">Convener Prof. Rekha Bali</p> <p style="text-align: center;">Coordinators Prof. Ram Autar Prof. Ram Naresh</p> <p style="text-align: center;">Organised by Department of Mathematics School of Basic and Applied Sciences Harcourt Butler Technical University Kanpur-208002, Uttar Pradesh</p>
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<p>About H.B.T.U., Kanpur</p> <p>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 which 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 98 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.</p> <p>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.</p> <p>About Department of Mathematics The Department of Mathematics has been striving hard for excellent teaching and research in Mathematical Sciences since its inception in 1961. The undergraduate and postgraduate students of various chemical technology and engineering departments are</p>	<p>enriched/equipped with in-depth theoretical background of sophisticated applied mathematics required for modern scientific investigations and technological developments and practical training in numerical computing by following need-based designed curriculum. The Department offers a doctoral research programme for carrying out research in inter-disciplinary areas.</p> <p>The faculty of the department is actively engaged in research in emerging thrust areas viz mathematical modeling, ecological and environmental systems, mathematical biology, biomechanics, fluid mechanics of the eye and cerebrospinal fluid, blood flow dynamics etc. Facilities for interdepartmental and interdisciplinary research activities have also been evolved. The Department is well equipped with computing and internet facilities. A number of research projects sponsored by different organizations like CSIR, CST UP, UGC, DST and ICMR have been completed. Also, various conferences, seminars, workshops, summer and winter schools have been organized by the department. Apart from this, the faculty members of the department also regularly visit to deliver lectures in conferences and seminars outside. The experienced and dedicated team of faculty members have presented/ published good numbers of research papers. Nearly 65 students have been awarded Ph.D. degrees under the supervision of departmental faculty members and at present 07 students are registered for Ph.D. Programme.</p> <p>Objectives of the STTP</p> <ul style="list-style-type: none">To use Data analysis tools and techniquesTo use SPSS to analyse data sheets, interpret the output and draw conclusions. <p>Topics to be covered:</p> <ul style="list-style-type: none">Data collection, Presentation & FiltrationDescriptive StatisticsProbability distributionsSampling distributionsParameter estimationHypothesis Tests: Parametric and Non-Parametric TestsStructural Equation ModellingRegression and Correlation AnalysisResponse Surface MethodFactor AnalysisPractical Training using SPSS Software.	<p>Registration Fee:</p> <p>Registration fee as applicable +18% GST is to be paid in form of DD in favor of Finance Controller, HBTU, Kanpur, payable at Kanpur.</p> <table border="1"><thead><tr><th>Delegate Category</th><th>Fee</th></tr></thead><tbody><tr><td>HBTU Participants</td><td>Nil</td></tr><tr><td>Participants from other TEQIP funded Institutions</td><td>Rs. 5,000/- +18% GST</td></tr><tr><td>Participants from Non-TEQIP Funded institutions</td><td>Rs. 2500/- +18% GST</td></tr><tr><td>Faculty members</td><td>Rs. 1500/- +18% GST</td></tr><tr><td>Students</td><td>Rs. 1500/- +18% GST</td></tr><tr><td>Participants from Industry</td><td>Rs. 10,000/- +18% GST</td></tr></tbody></table> <p>Accommodation</p> <p>The participants have to make their own arrangements for boarding, lodging and transport. However, the limited accommodation is available in the HBTU guest house on first come first serve basis which can be made available to the participants on their personal request. The interested candidates may submit their request in advance.</p> <p>Who can participate?</p> <p>The STTP is open for the research scholars/ researchers/ faculty members. However, preference will be given to Ph.D. students pursuing/ interested in "Research Methodology" course. The number of seats are limited to Seventy (70) candidates and registration for the programme will be made on the first come first serve basis. Selected candidates will be informed through email.</p> <p>Resource Persons</p> <p>Faculty members from premier institutions/ research organizations will deliver lectures.</p>	Delegate Category	Fee	HBTU Participants	Nil	Participants from other TEQIP funded Institutions	Rs. 5,000/- +18% GST	Participants from Non-TEQIP Funded institutions	Rs. 2500/- +18% GST	Faculty members	Rs. 1500/- +18% GST	Students	Rs. 1500/- +18% GST	Participants from Industry	Rs. 10,000/- +18% GST
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Students	Rs. 1500/- +18% GST															
Participants from Industry	Rs. 10,000/- +18% GST															

(2020-21)

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


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

Original approval is attached in
Dr. Raghunendra Singh payment file
"online future Skill Technology".


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



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

49

7.	Simpler laboratory version of robotic arm <ul style="list-style-type: none"> • Arm movement of robots perform on rob analyser and seen rotational matrix chagement. 	Hardware/ software Experiments/labs (6 Hrs.)	11/09/2020	6pm-9pm	3	-	3
28.	Actuators: Pneumatic <ul style="list-style-type: none"> • 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 	IV: Robot Actuation Systems (10 Hrs.)	12/09/2020	5pm-9pm	4	4	-
29.	Transmission: Gears, Timing Belts and Bearings <ul style="list-style-type: none"> • 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. 		13/09/2020	6pm-9pm	3	3	-
30.	Parameters for selection of actuators <ul style="list-style-type: none"> • Power source availability, control access, valve size, frequency of operation, and required torque are all factors to consider when choosing between pneumatic or electric actuators 		14/09/2020	6pm-9pm	3	3	-
31.	Industrial Robot programming using VAL II or equivalent / simpler laboratory version of robotic arm.		15/09/2020	6pm-9pm	3	-	3
32.	DH parameters <ul style="list-style-type: none"> • In mechanical engineering, the Denavit-Hartenberg parameters (also called DH parameters) are the four parameters associated with a particular convention for attaching reference frames to the links of a spatial kinematic chain, or robot manipulator. 	Hardware/ software Experiments/labs (9 Hrs.)	16/09/2020	6pm-9pm	3	-	3

Online Future Skill Training on "Robotics & Automation"

Lecture Delivery Plan (LDP)

48

33.	<p>DH parameters</p> <ul style="list-style-type: none"> In this convention, coordinate frames are attached to the joints between two links such that one transformation is associated with the joint, [Z], and the second is associated with the link [X]. The coordinate transformations along a serial robot consisting of n links form the kinematics equations of the robot 		17/09/2020	6pm-9pm	3	-	3
34.	<p>Basics of control: open loop- closed loop Transfer functions</p> <ul style="list-style-type: none"> Basic controlling system of robotics explained and understands impact of open and closed loop transfer function. 	V: Robot Control (7 Hrs.)	18/09/2020	5pm-9pm	4	4	-
35.	<p>Control laws: P, PD, PID Linear and Non-linear controls</p> <ul style="list-style-type: none"> Use of: P, PD, PID controllers inside robotics arm movement explained 		19/09/2020	6pm-9pm	3	3	-
36.	<p>Microcontroller lab – programming (free software /open source)</p> <ul style="list-style-type: none"> Application of PIC microcontroller inside robotics explained. 	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.	<p>Embedded systems: Microcontroller Architecture and integration with sensors actuators, components programming</p>	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	-

[Signature]

[Signature]

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

47

		28/09/2020	6pm-9pm	3	3	-
45. Robot safety and social robotics	Hardware/ software Experiments/labs (6 Hrs.)	29/09/2020	6pm-9pm	3	-	3
Control experiment using available hardware or software. (Open source or Matlab). Use of open source computer vision programming tool Matlab, open CV		30/09/2020	6pm-9pm	3	-	3
46. Small group project work relevant to Industrial automation.		Total		142	71	71
##TEQIP FINAL ASSESMENT (Conducted by SSC NASSCOM on dt.19/12/2020 from 02:00pm- to-04:00pm)						

[Signature]

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

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

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

[Signature]
Coordinator, TEQIP-II
₹

(2021-22)

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TnP Coordinator

STUDENT COORDINATOR
Deepika Juneja



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IIT Bombay
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and more.....

