



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



BEST PRACTICES

7.2.1



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Best Practice-01

Title of the Practice:

Alumni Student-support for Placements, Internships, Research and Entrepreneurship [ASPIRE]

Objectives of the Practice: To develop an ecosystem which fosters better paid internship programs, enhances entrepreneurship abilities and provides better placement opportunities with the help of Alumni Student Connect Programs (ASCPs).

Context:

Kanpur is the biggest city of the state and is the main center of commercial and industrial activities. Formerly it was known as the Manchester of India. Now it is the commercial capital of Uttar Pradesh. HBTU formerly known as HBTI is an institute with more than 100 years legacy and has seen the ups and downs of the city. The university strives to revive the lost glory of the city in terms of business avenues. Each year since past 100 years, the graduates have become successful entrepreneurs and leaders in various companies both in private and government sectors. Thousands of alumni of HBTU have been in top notch positions in all walks of life across the world and have always shown willingness to handhold the students of their alma mater. As they are equipped with adequate technology and science background to make breakthroughs, the HBTU graduates are prepared for better placements, paid internships and entrepreneurship capabilities through **Alumni student connect programs, a voluntary program run by the Alumni association of the University**. Alumni Student Connect Program started taking shape when a group of thirty (30) members were selected to start this program. The Rajiv Agha Memorial Hall in Alumni Office is regularly used by the students for their Quiz, Group Discussions, placement interviews, etc. under ASCPs, following programs exist for better placements, innovations and internships of students:

- **Buddy Programs**

By working alumnus with working experiences of 05 to 30 years for HBTU students with the aim of frequent and need based professional guidance on voluntary basis as per prevailing needs of the profession in industry and around.

- **Mentorship Programs**

By senior working alumnus in leadership role with good working experiences for the students of HBTU, with the aim of mentoring the students from remote locations.



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- **Vocational Projects**

Short-term project opportunities through alumni-students relationships where working alumni can get their elementary work done through students in campus on voluntary basis and in return students get handsome experiences and better curriculum vitae (CV).

- **Guest Lectures**

Voluntary guest lectures by eminent alumni in leadership role is conducted in campus/ off campus for knowledge sharing and hands on industry exposures.

- **Scholarships**

Many prominent alumni offer good scholarships to meritorious students (topper students of B.Tech./ M.Tech.) in order to motivate them to flair well in academics and subsequently in various research activities.

The Practice:

We start by segmenting alumni according to their knowledge, talent or co-creation capacity. The following areas are identified for segmentation as well as mapping for the **ASCP**:

- Alumni in Administrative roles (**Mentorship Programs / Guest Lectures**)
- Alumni associated with Fortune 500 companies (**Buddy Programs/ Guest Lectures**)
- Alumni associated with Maharatna/ Navaratna PSUs (**Buddy Programs/ Guest Lectures**)
- Alumni as Entrepreneurs/Consultants (**Vocational Projects/ Guest Lectures**)
- Alumni as Women leaders (**Mentorship Programs/ Guest Lectures**)
- Alumni also encourage the students by providing merit cum means scholarships

Regular meet-ups, contests, Hackathons etc. are organized as a part of Alumni student connect programs to encourage students for sustained interaction with the alumni.

Success Stories

An app “HBTI Alumni Connect” Application was developed for the students and alumni of HBTU Kanpur. The App enables the HBTU students and alumni to keep connected with each other through messages and mails. User will also get updates about recent activities. Using this app you can get access to the following features:

- Latest announcements
- Jobs openings



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- News and events at and of HBTU, Kanpur
- Communication via messages and emails amongst the registered members
- Search nearby alumni

Some activities to show success of Best Practice 1:

2018-19:

1. An Alumni Connect Program was held in Jan 2018 :

Alumni Student Connect Program started taking shape when a 30 members group was selected to start this program. The Rajiv Agha Memorial Hall in Alumni Office is regularly used by the students for their Quiz, Group Discussions, placement interviews, etc.



Alumni Student Connect Program
A Voluntary Program Run by Alumni Association HBTU Kanpur

Buddy Program	• By working Alumnus with working experience of 5 to 10 years for the students with the aim of frequent and need based professional guidance on voluntary basis as per prevailing needs of the profession in industry and around.
Mentorship Program	• By senior working Alumnus in leadership role with working experience of more than 10 years for the students with the aim of their mentoring from remote location on voluntary basis.
Weekend projects/ Vocational Projects	• Short term project opportunities through Alumni - Students relationship, where working Alumnus can get there elementary work done through students in campus on voluntary basis and in return students get hands on experience and better CV
Guest Lectures	• Voluntary Guest lectures by eminent Alumnus in leadership role be conducted on campus / off campus for knowledge sharing

Above activities shall be coordinated by **Alumni-Student Connect Program Committee (ASCPC)** consisting of upto 30 student members pursuing different courses from prefinal year and sophomore year



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2. “HBTI Alumni Connect” App launched in August 2018:

An app “HBTI Alumni Connect” Application was developed for the students and alumni of HBTU Kanpur. The App enables the HBTU students and alumni to keep connected with each other through messages and mails. User will also get updates about recent activities. Using this app you can get access to the following features:

1. Latest announcements
2. Jobs openings
3. News and events at and of HBTU, Kanpur
4. Communication via messages and emails amongst the registered members
5. Search nearby alumni

Google Play Games Apps Movies & TV Books Kids

HBTI Alumni Connect

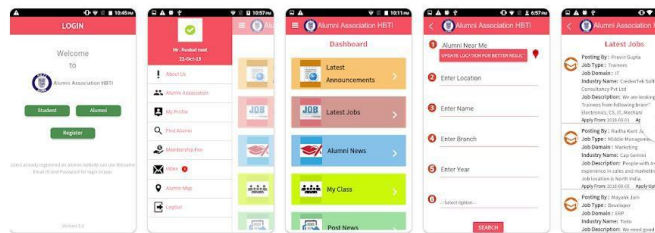
CredenTek Software & Consultancy Private Ltd

1K+ Downloads
 Everyone

Install

Add to wishlist

This app is not available for your device



Developer contact



Mr. Pravin Gupta's (1993 EE) company CredenTek Software and Consultancy Pvt. Ltd. has developed the HBTI Alumni Connect App. This App is provided complimentary by Mr. Gupta and it was promised by him in the last Executive Committee Meeting held on 7th Jan 2018. Alumni Association conveys its gratitude to Mr. Gupta and his company. This App has received very good feedback from the Google Playstore and got a rating of 4.9 out of 5.0



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3. A Talk for Oil and Gas Sector in September 2018:

Mr. Alok Gupta, Senior Electrical Engineer, Houston, Texas, alumni of HBTI gave a talk to develop solutions for the oil and gas platforms in September 2018.




AUGUST 13, 10 AM
Power System Simulations Lab,
Electrical Engg. Dept. - HBTU

**ELECTRICAL
 POWER SYSTEM
 ANALYSIS FOR OIL
 & GAS PLATFORMS**

ALOK GUPTA, P.E. (1993 EE)
 Senior Member, IEEE

Electrical Power Systems is an evergreen area used in various industries. The seminar discusses electrical power system application in one such area - Oil & Gas offshore platforms. Concepts discussed can be applied to industries such as refineries, petrochemical plants, etc.

Presented by Harcourtian Alok Gupta who received his Master's degree in Electrical Power Systems from IIT-Delhi in 1996 & B.Tech. degree from our HBTI in 1993. He is a Senior Electrical Engineer in BP America Inc. Houston, Texas and has 21+ years of experience including that at KBR, OTI (makers of ETAP), and ABB. He is a registered Professional Engineer (P.E.) in the State of California.



ALUMNI ASSOCIATION
HBTI KANPUR

Design Electrical Systems for Oil & Gas Platforms

Apply Industry Standards

Develop System Model

Use Analysis Tools

Mr. Alok Gupta
1993 EE, Chief Engineer, British Petroleum, Texas USA delivered talk in EED on 13th August at the HBTU Campus which was attended by around **80 students.**





"About e-Cell HBTU Kanpur"

E-cell HBTU-K is a non-profit



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4. Paints department organized a five days Training Program at the campus from 27th to 31st August 2018 on “Testing of Paints and Paint Films” to develop entrepreneurship.



5. Dr. Vipin Shukla, 1994ME, Secretary, IIT Delhi Alumni Association and Dr. Apoorv Ranjan Sharma, 1994 EE, HBTU, Cofounder & President of Venture Catalysts have made efforts to start an initiative called 'Global Innovation and Angel Network (GIAN)'. This initiative is committed to create a global startup platform of highest standards and build a startup ecosystem. This will help not only the alumni entrepreneurs but also the current students of IIT Delhi to inculcate their knowledge in the field of innovation and entrepreneurship





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6. Jan 2019: TED is an annual event that brings together the world's leading thinkers and doers to share ideas that matter in any discipline, technology, entertainment, design, science, humanities, business, development. In the spirit of "**ideas worth spreading**," TED has created **TEDx**, a program of local, self-organized events that bring people together to share a TED-like experience. Our alumni participated and motivated the current students with their experiences.



7. February 2019: Mr. Anjanay and Mr, Harsh Yadav of 2nd year won the **Megabuck competition** at **IIT Kanpur** organized by TIE Kanpur.





8. April 2019: **AEROCLUB**: was established by alumni CEO of Venture Catalyst who provided support in form of five drone kits to Aero club, MED, HBTU Kanpur.



9. May 2019: More innovations came to life with electricity being generated from heat and breakthrough research in soaps and paints.

Harcourtians excel in academics and technology

हरकोर्टियंस ने गर्मी से बनाई बिजली

अमर उजाला ब्यूरो

कानपुर। हरकोर्ट बटलर टेक्निकल यूनिवर्सिटी (एचबीटीयू) के छात्रों और विदेशियों ने कमाल कर दिखाया है। एक ऐसी डिवाइस तैयार की है जो गर्मी (अधिक तापमान) से बिजली तैयार कर सकती है। अब इस डिवाइस का प्रयोग बड़े पैमाने पर करने की तैयारी शुरू हो गई है। विद्युत के इलेक्ट्रॉनिक्स विभाग के सीनियर प्रोफेसर मनोज शुक्ला के गार्डरूम में विभाग के ही फंडेशनल इंटर छात्र जब अखला और छात्र रिया तिवारी ने धर्मोत्पल पर आधारित एक डिवाइस तैयार की है। यह डिवाइस सौरक इफेक्ट पर काम करता है। यानी जब एक तरफ सेल बहुत गर्म होती है और दूसरी तरफ ठंडी रहती है तो उससे बिजली उत्पन्न होती है। बसंत ऋतु की

सोलर सेल से 25% सस्ती होगी डिवाइस, कम और अधिक तापमान में पांच डिग्री सेल्सियस के अंतर पर तैयार होगी बिजली



प्रो. मनोज शुक्ला।

विजली तैयार की थी, उससे बल्ब भी जलाने देखा चुके हैं। अब इस सोलर सेल को बड़ा रूप देने की तैयारी है। इसके लिए एक मल्टीनेशनल कंपनी से समझौता भी करे। जल्द ही इसका एप्लान किया जाएगा।

कमरा भी रहेगा ठंड प्रो. शुक्ला बताते हैं कि इस डिवाइस को घर को छत पर, कमरों की दीवारों पर, बाइक के साइलेंस आदि पर लगाया जा सकता है। घर की छत पर लगाने से घर के अंदर पांच से छह डिग्री सेल्सियस तापमान कम हो जाएगा। इसी तरह कमरे की दीवार पर डिवाइस लगाने से भी कमरे का तापमान काफी कम हो जाएगा। बाइक को साइलेंस पर लगकर भी बिजली का उत्पादन कर सकते हैं। इससे काफी बचत होगी।

सोलर सेल से भी 25 फीसद सस्ती है तकनीक प्रो. मनोज बताते हैं कि अभी तक केवल सौर ऊर्जा से बिजली तैयार करने की तकनीक को बढ़ावा दिया जा रहा है। लेकिन धर्मोत्पल पर आधारित इस डिवाइस को कमतम सोलर सेल से 25 प्रतिशत कम होगा। इसे स्टोर भी किया जा सकेगा।

साबुन, पेंट के भी मानक तय होंगे

एबीटीयू

कानपुर। कार्बोनाट होस्टल। हरकोर्ट बटलर प्राविधिक विश्वविद्यालय (एचबीटीयू) अब भारतीय मानक ब्यूरो के लिए सोलर सेल, एबीटीयू और भारतीय मानक ब्यूरो के बीच 13 नई को संपन्न ने एबीटीयू। इनके लिए एबीटीयू के अधिकारी भी एबीटीयू चुन चुके हैं। कान और एबीटीयू को साबुन, डिस्टेंट और पेंट को राष्ट्रीय मानक बनाने की जिम्मेदारी दी गई है। एबीटीयू के रजिस्ट्रार प्रो. मनोज शुक्ला ने साबुन को बनाने के लिए एबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है। एबीटीयू के रजिस्ट्रार प्रो. मनोज शुक्ला ने साबुन को बनाने के लिए एबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है। एबीटीयू के रजिस्ट्रार प्रो. मनोज शुक्ला ने साबुन को बनाने के लिए एबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है।

मिस्त्री जिम्मेदारी

भारतीय मानक ब्यूरो के लिए एबीटीयू कार्य करेगा। 13 नई एबीटीयू रजिस्ट्रार के बीच होंगे एबीटीयू। इस, साबुन के लिए एबीटीयू का काम किया होगा एबीटीयू। भारतीय मानक ब्यूरो भारत में राष्ट्रीय मानक निर्धारित करने वाली संस्था है। वह अंतराष्ट्रीय मानक, जहां पर राष्ट्रीय मानक बनाने के लिए अंतराष्ट्रीय मानक के आगे कार्य करती है। इनके द्वारा तय 'भारतीय मानक संख्या' (इसका संकेत IS: 15000, आईएस: 15000) का।



सोलाइन प्रोफेसर मनोज शुक्ला को बैचलर ऑफ इंजीनियरिंग और एचबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है। एबीटीयू के रजिस्ट्रार प्रो. मनोज शुक्ला ने साबुन को बनाने के लिए एबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है। एबीटीयू के रजिस्ट्रार प्रो. मनोज शुक्ला ने साबुन को बनाने के लिए एबीटीयू के बीच सोलर सेल और एबीटीयू के बीच सोलर सेल अन्य तकनीक पर एबीटीयू की जिम्मेदारी दी गई है।

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10. January 2020: **HBTU gets a project for reducing Ganga pollution.** This helped the students foster skills in this domain.

एचबीटीयू बनाएगा गंगा में प्रदूषण की कुंडली एसटीपी, शोधन, फैक्ट्रियों की क्षमता का बनाएगा रिकार्ड

जागरण संवाददाता, कानपुर : 'पतितपानो' की निर्मलता, शुचिता और अविखरता लौटाने के लिए केंद्रीय प्रदूषण नियंत्रण बोर्ड ने तैयारी शुरू कर दी है। अब 'जीरो डिस्चार्ज' फार्मूले को सफल बनाने के लिए गंगा को दूषित करने वाली इकाइयों की कुंडली तैयार होगी। शोध कर गंगाजल की गुणवत्ता जांची जाएगी। खामियां मिलने पर इन्हें दूर करने की प्लानिंग तैयार होगी। इसके लिए प्रदेश के नानी शिक्षण संस्थानों को जिम्मेदारी सौंपी गई है।

कानपुर में यह जिम्मा हरकोर्ट बटलर टेक्निकल यूनिवर्सिटी (एचबीटीयू) को दी गई है। विश्वविद्यालय का बायोकेमिकल इंजीनियरिंग विभाग जल्द ही जांच शुरू कर देगा। इसके विशेष औद्योगिक इकाइयों से निकलने वाले कचरे, सीवेज ट्रीटमेंट प्लांट की कार्यक्षमता का आकलन करेंगे। कमी मिलने पर न सिर्फ रिपोर्ट देंगे बल्कि इन्हें दूर करने का रास्ता भी सुझाएंगे। सहयोग के लिए केंद्रीय



● केंद्रीय प्रदूषण नियंत्रण बोर्ड ने कई शिक्षण संस्थानों को सौंपी है गंगा के लिए जिम्मेदारी
● गंगा में जाने वाले कचरे, दूषित पानी की रिपोर्ट होगी तैयार, दिल्ली की लैब में चेक होंगे नमूने

प्रदूषण नियंत्रण बोर्ड की टीम भी रहेगी। पानी में जहरीले तत्वों का पता लगाने के लिए दिल्ली की लैब से जांच कराई जाएगी। केंद्रीय प्रदूषण नियंत्रण बोर्ड के वाटर क्वालिटी मैनेजमेंट के नोडल अधिकारी एके विद्यार्थी की बायोकेमिकल इंजीनियरिंग विभाग के इंचार्ज प्रो. बृजेश सिंह से बातचीत हो चुकी है। पहले चरण में 40 टेनरियों को

गंगा में गिरने वाले औद्योगिक कचरे और गंदगी पर विस्तार से शोध होगा। केंद्रीय प्रदूषण नियंत्रण बोर्ड की ओर से पत्र मिलते ही कार्य शुरू हो जाएगा। रिपोर्ट के साथ ही कार्ययोजना भी बनेगी।

प्रो. बृजेश सिंह, विभागप्रमुख, बायोकेमिकल इंजीनियरिंग, एचबीटीयू

पसखा जाएगा। बाद में टेक्सटाइल और अन्य उद्योगों के उत्प्रवाह का आकलन होगा। फर्रुखाबाद, कन्नौज से लेकर फतेहपुर सीमा तक जांच की जाएगी। सहायक नदियों नमगंगा, काली और सरा नदी पर भी नजर रहेगी। चोर नालों की मॉनीटरिंग की जिम्मेदारी केंद्रीय प्रदूषण नियंत्रण बोर्ड और उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड की टीम को दी गई है। बोर्ड मुख्यालय ने पहले चरण में एमएनआइटी इलाहाबाद, आइआईटी ब्रीचन्यू, अलीगढ़ मुस्लिम यूनिवर्सिटी को जांच के लिए कहा है। यह कानपुर में भी सैपलिंग कर सकते हैं।

11. February 2020: **Smart Fan Designed by our student gets nod for production.**



Smart Fan designed by Harcourtians

Shiv Shankar Upadhyay(CS) and Deepanshu Ahlawat (ECE) have designed a fan which is responsive to the temperature in the room. For obvious reasons the fan would be using less than half the energy of normal fans. They now plan to patent the technology and then move towards manufacturing it.

12. February 2021: **AKS IT Services winner of National Technology Award 2020**

AKS IT Services founded by Shri. A. K. Saxena (Class of 1976) provides services in the domain of Information Security, comprising auditing, consultancy, Compliance, Network Security, Application Security, Cyber Forensic, IT Security Training and also develop Cyber Security Products. They have designed, developed and commercialized indigenous Artificial Intelligence-based on premise.



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Their product development is financially supported by Govt. of India, They have been declared winner of National Technology Award2020 (MSME Category) by Govt. of India for commercializing Innovating Cyber Technology.



13. Harcourtian powers KNHPI's effort to develop paint from cow dung

Kumarappa National Handmade Paper Institute (KNHPI) has developed low-cost distemper and emulsion from cow dung. Shri Vivek Saxena (Paint Technology, 1988) was associated with this initiative as Technical Consultant to KNHPI. Mr. Nitin Gadkari Minister of Road Transport & Highways and MSME has issued a Letter of Commendation congratulating and complimenting him for his exemplary work and technical support





LAUNCH OF
Khadi Prakritik Paint
(India's First Cow Dung Paint)

by
Shri Nitin Gadkari
Hon'ble Minister of Micro, Small and Medium Enterprises

Guests of Honour

Shri Giriraj Singh
Hon'ble Minister of Fisheries, Animal Husbandry and Dairying

Shri Pratap Chandra Sarangi
Hon'ble Minister of State for Micro, Small and Medium Enterprises

in the august presence of

Shri Vinal Kumar Saxena
Hon'ble Chairman, KVIC

Date: 12th January, 2021

अष्ट लाभ

ANTI-BACTERIAL | ANTI-FUNGAL | ECO-FRIENDLY | NATURAL THERMAL INSULATOR
COST-EFFECTIVE | FREE FROM HEAVY METALS | NON-TOXIC | ODOUR LESS

Khadi Prakritik Distemper & Emulsion Paint



AN INNOVATIVE WAY OF INCREASING INCOME OF FARMERS



14. SMART INDIA HACKATHON(SIH) 2020

Smart India Hackathon (SIH) is a national initiative launched by AICTE and MHRD aimed at providing students with a platform to solve some of the pressing problems we face in our daily lives, and to inculcate a culture of product innovation and problem-solving mentality.

Students of HBTU Kanpur came up with numerous ideas for the problems statements given by various governments' institutions and private companies. Entrepreneurship Cell, HBTU organized an internal screening in the university under the guidance of Prof. Narendra Kohli sir.

The project ideas of 5 software and 2 hardware teams were sent for review. Out of these, 2 teams got selected from the Harcourt Butler Technical University, Kanpur.

I. EAST WIND

Krishnam Dhawan, 2nd CSE, Milind Kaushal, 2nd IT, Ansh Shanker, 2nd CSE, Divyansh Tripathi, 2nd IT, Utkarsh Tiwari, 2nd CSE, Deeksha Lala, 2nd CSE

II.FLASH_UNVEILED

Rohit Pratap Singh, 2nd CSE, Shivangi Dubey, 2nd CSE, Shashwat Agarwal, 2nd CSE, Aakriti Sehrawat, 2nd CSE, Akshay Rathi, 2nd CSE, Utkarsh Verma, 2nd ET

The banner for the Smart India Hackathon 2020 features a green and orange background with a globe. It includes logos for organizers (MHRD, MIC, etc.), platinum partner (AWS), and partners (DEVNET, Intel, KPIT). The team name 'East Wind' is prominently displayed in large blue letters, with 'PS ID: DRI13 (Stray Cattle Challenge)' and 'Govt. of Goa' below it. The Vel Tech logo is also present. Several small photos of team members are included.

Both the teams came up with incredible ideas.

The **EAST WIND** focused on the problem of stray cattle in India and the **FLASH_UNVEILED** built a tool to recover Flash memory data.



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SMART INDIA HACKATHON 2020 WINNERS

The Team '**FLASH_UNVEILED**' of Harcourt Butler Technical University has won the Smart India Hackathon-2020 conducted by the Government of India under Ministry of Human Resources and Development.

They won a trophy and a cash prize of ₹100,000/-.

The Team was lead by **Mr. Rohit Pratap Singh** of 2nd Year, CSE including;
Utkarsh Verma (2nd ET)
Akshay Rathi (2nd CSE)
Shashwat Agarwal (2nd CSE)
Aakriti Sahrawat (2nd CSE)
Shivangi Dubey (2nd CSE).

The students were working to develop a tool to recover more than 96% data from formatted NAND flash drive which is a completely an innovative software which uses Python to retrieve data even after drive is formatted. It is performed using data carving technique by detecting file signatures. It is able to retrieve data from about 518 file types, independent of file system, irrespective of any corrupt memory block. A GUI has also been developed for the software which makes it even more user-friendly.

15. TCE-HBTU HACKATHON 2020

Thiagrajar College of Engineering (TCE) and HBTU had collaborated towards organizing a Hackathon. The Problem Statement for the Hackathon was Waste Management for Urban Environment. The students had to choose their scenario, based on the problem statement and give a proper solution to it. Around 30 teams brought their ideas and 15 had to be selected for going to compete at TCE, Madurai.

It was a plan to challenge the students from both the colleges to work together, think out-of-the-box and offer innovative idea to build smart applications which will help address major real-time problems regarding the waste management in urban areas.

Winners of Hackathon

1st Prize:

Team Name: FLASH

Team members:

Manan Tyagi, Shubham Kumar Yadav, Jeysiva A P, Karthikeyan S

Problem Statement: Monitoring of Sanitation



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2nd Prize:

Team Name: GREPHON

Team members:

Shivangi Dubey, Bharat Pratap Singh, Aravind Manikandan R, Prasitha S

Problem Statement: Reduce, Reuse & Recycle the Water used in Urban Homes & Apartments



16. Smart India Hackathon 2022:

The following students won prizes:

- Prakhar Tandon
Team Lead
3rd B.Tech. Computer Science and Engineering



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- Utkarsh Dixit
3rd B.Tech. Computer Science and Engineering
- Harsh Prajapati
3rd B.Tech. Computer Science and Engineering
- Tushar Bhaita
3rd B.Tech. Computer Science and Engineering
- Raunak Agarwal
3rd B.Tech. Mechanical Engineering
- Unnati Kumari
3rd B.Tech. Computer Science and Engineering

Notable Alumni of HBTU who have contributed in taking sessions:

- **Indiamart** (<http://www.indiamart.com>) - Founded by **Mr. Dinesh Agarwal** B. Tech, Computer Science & Engineering(1986 – 1990)
- **uFony Services Pvt Ltd**- <http://www.zoment.com/> - Founded by **Ashish Chaturvedi**, B.Tech (1997 – 2001)
- **Wordsmith** - <http://Wordsmith.org> - **Anu Garg**
- **Homeoptima** - <http://Homeoptima.com> - **Ashish Saxena** B.Tech., Chemical Technology(1991 – 1995)
- **Venture Catalyst**, CEO: **Dr Apoorva Ranjan Sharma** graduated from HBTU, Kanpur
- **Prof. Samsher**- Vice Chancellor, HBTU, Kanpur (ME, 1987)
- **Ramkumar Verma**, Painter and Writer
- **Dinesh Kumar Batra**, Director (Finance) at **Bharat Electronics Limited**
- **Dr. Ashutosh Karnatak**- Chairman & Managing Director “**GAIL India Limited**”
- **Rajiv Sikka** , CEO- **Indian Oil Adani Gas Pvt Limited**.
- **Sanjay Kumar**, Inventor and Creator of **ChroPath**
- **Sarika Shukla**, Faculty of **Computer Science & Engg.** at **IIT Hyderabad**
- **Anurag Agrawal**, Associate Vice President , Engineering at **GlobalLogic**
- **Brijesh Goswami**, Vice President at **J P Morgan Chase & Co.**
- **Amit Saxena** , Associate Director at **Cognizant**
- **Anurag Mishra**, **Allen Career Institute** , Physics Teacher
- **Amit Pandey**, Chief Operating Officer at **Exicom Tele-Systems Limited**
- **Prof. Ashutosh Upadhyay**, Dean (Academic) **National Institute of Food Technology Entrepreneurship and Management**
- **Prof. Vinay Kumar Pathak**, Vice Chancellor, **CSJM University**, Kanpur (CSE, 1991)
- **Anil Khandelwal**, Ex. **Chairman** and Managing Director, **Bank of Baroda**
- **Yashvir Singh, MP (2009–2014)** from Nagina **Lok Sabha Constituency** (UP)
- **Prof. Onkar Singh**, Founder Vice Chancellor of **Madan Mohan Malaviya University of Technology**, Gorakhpur (U.P.), India and current **Vice Chancellor of Veer Madho Singh Bhandari Uttarakhand Technical University**
- **Keshav Dev Malviya**, **Father of Indian Petroleum Industry.**



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- **Alakh Pandey**, Most famous **Edutuber of India**, who gives 11th and 12th IIT-JEE/NEET Coaching
- **Rav Praveen Singh, IFS Officer** Batch of 2017, Working in Indian Embassy in Madrid Spain. AIR-152
- **Aojaswi Raj, IAS Officer** AIR-223 Batch of 2019
- **Sujoy Kumar Mitra, Founder of 7Billion Islands**, Tourism Company.
- **Ashish Saxena**, Vice-president **Wipro** Limited
- **Physicswallah- Alakh Pandey** is an alumni of HBTU

Outcomes:

1. Better placements (upto 80% are placed in different companies, about 5% opt for higher studies from reputed institutions in India and abroad, about 5% prepare for civil services and the remaining students opt for innovations and startups) of students with maximum salary of 46 lakhs. ([List](#))
2. Paid Internships: About 200 students get paid Internships every year, with stipend ranging from 10,000/- to 1,00,000/- ([List](#))
3. Many students got selected in UPSC ([List](#))
4. Many students have become entrepreneurs and have become job providers. To name a few, the following companies are established by HBTU alumni:
 - Kamdhenu Steels has 20000 employees.
 - India mart has over 4100 employees.
 - Arvind Footwear has 4000 employees.
 - Kloudrac has 200 employees.
 - K.Tech. India Pvt. Ltd. has 200 employees.
 - A R Thermosets Pvt. Ltd. has 300 employees.

Many such companies are established by HBTU alumnus.

Problem Encountered and Resources Required: No problems have been encountered in the implementation.



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BEST PRACTICE- 02

Title of the Practice: Social Activities for Women Empowerment in Rural Areas [SAWERA]

Objectives of the Practice:

- 1. To encourage our students' sense of social responsibility catering to women empowerment in rural areas.**
- 2. To raise students' awareness of the social divides that currently exist in terms of gender, income, health, education, and nutrition in rural women.**
- 3. To cultivate in young people a sense of empathy and compassion for the needs of the socially and economically disadvantaged, especially women.**
- 4. To instill a sense of environmental responsibility in the students so that they can promote the same in rural areas by educating rural women.**

Context:

Our motherland is a land of enormous diversity wherein majority of the population is belonging to the rural background (approximately 64.61 % - according to World Bank/ tradingeconomics.com). Moreover, the state of Uttar Pradesh is ahead of the national average with 77.73% of its population in villages. The majority of students of Harcourt Butler Technical University, Kanpur (HBTU, Kanpur) are from rural background with a strong affinity and motivation towards the social causes and problems at their native places. Many students taking admission at HBTU, Kanpur from rural backgrounds are well aware of the issues being faced by women folks in rural India especially in terms of gender inequalities, poor health and hygiene, malnutrition, education, lack of awareness about the rights given by Government to rural women etc. Over the recent past such students discuss their ordeal to the faculty members/ University officials and as a result the University through National Service Schemes (NSS) and establishment of **Women's Study Center (WSC) is committed to actively participate through various activities in raising the overall standard of girls/ women in rural areas.**

The lives of women in rural areas are marked by social inequalities and lack of opportunities, whether it be a lack of opportunity for a sustainable livelihood or for education, or a lack of access to health care and good hygiene. Education is the only medium that can eliminate these inequalities.

Top premium University like HBTU, Kanpur which has a wonderful history and legacy of over 100 years is fully aware that India's educational system can minimize the above mentioned gaps and is also deeply committed to raise awareness among the nation's youth (our students) to cultivate a sense of empathy and compassion for the needs of the socially disadvantaged women. In order to inspire girls and women to pursue education, good health, self-respect, and economic independence, HBTU established the **WSC**. Women should be encouraged to use modern technological resources, and their trust should be earned by developing close relationships with isolated rural women and educating them about the social inequalities that still exist today against women.



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The Practice:

To achieve the above objective a large number of programs under the aegis of WSC and NSS are organized by the University approximately every month. The subject matter of the program is as follows:

- The students, teachers, officers and staff of the University organize various programs, lectures, sports competitions etc. to promote the overall personality development of the villagers.
- In this series, the Women's Study Center provides education to rural women for their empowerment, general health issues, nutrition, food, hygiene etc.
- Awareness is created among rural women about Central/State Government schemes, skill development practices that provide employment, scientific approach information is provided.
- Along with this, to establish the spirit of patriotism, various programs are organized on national days, such as run for freedom, run for unity, run for peace, street plays (on various social topics like: gender equality, women safety, women education, evil practices against women like dowry, women feticide, child marriage, right to vote etc.), debates, lectures etc.
- To develop the overall personality of HBTU stakeholders – students, teachers, officers, employees, alumni and parents in order to create awareness problems faced in rural India along with emphasis among the villagers on self-defense, health related issues and for employment opportunities.
- The University has been associated with the National Service Schemes, NSS for a long time, with the aim of engaging our students in the service of the poor, downtrodden and rural people so that the students can be aware of their problems. Students are likely to do social service work in their future life. The said work also helps in developing important qualities like compassion, spirit of co-operation, managerial skills etc. in the students. In this direction, students visit villages for cleanliness, poor students are helped by coaching in their studies. In this series, the university has adopted three villages, whose names are as follows:
 - Barhat Bangar, Block Kalyanpur, Kanpur.
 - Tatyaganj, Block Chaubepur, Kanpur.
 - Maharajpur, Block Chaubepur, Kanpur.
- Over the years many programs have been organized on various topics like Tree Plantation Campaign, Clean and Green Village, School Chalo Abhiyan, Food Conservation Bank, Adult Education, Health Camp, Bank for Villages and Legal Counseling Camp, National Swachh Bharat Mission Program, Professional programs for Skill enhancements have been organized, which are very useful for the villagers.



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Thus, NSS and Women's Study Center, HBTU, Kanpur is constantly trying to fight problems and empower rural women and adult girls by organizing various programs.

Evidence of Success:

Brief list of programs organized by Women's Study Centre, Harcourt Butler Technical University, Kanpur and their outcomes are as follows:

SNo	Program	Date	Place	Beneficiaries
1.	World Environment Day	June 05, 2021	Tatyaganj and Maharajpur	Plantation of 50 saplings was done in which 40-50 women and 20-30 primary school students participated.
				एचबीटीयू ने ग्राम महाराजपुर व तातियागंज प्राथमिक विद्यालय में किया कार्यक्रम : एचबीटीयू ने कुलपति प्रो. शमशेर की प्रेरणा से ग्राम महाराजपुर एवं तातियागंज के प्राथमिक विद्यालय में स्वच्छता, पौधरोपण एवं पर्यावरण संरक्षण हेतु विविध कार्यक्रम का आयोजन किया। समिति सचिव डॉ. विकास यादव व विवि कुलसचिव डॉ. नीरज कुमार सिंह ने सभी को पर्यावरण संरक्षण के प्रति जागरूक किया। ग्राम प्रधानों से अनुरोध किया गया कि वह ग्रामीणों को विभिन्न सरकारी योजनाओं का लाभ दिलाते हुए पर्यावरण संरक्षण की दिशा में भी कार्य करें। कार्यक्रम में विवि की डॉ. अर्चना सिंह, प्रधान तातियागंज गुड्डी यादव, श्रीमती दीनू निरंजन, अभिषेक शर्मा आदि ने भागीदारी की।
2.	World Day Against Child Labour	June 12, 2021	Barhat Bangar	130 child laborers (15-18 yrs) participated in a lecture discussing the cons of child labour and to promote the importance of education.



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SHOT ON OPPO

3.	International Yoga Day	June 17-21, 2021	Gymnasium located in the western courtyard	Around 150 faculty and students participated.
				
4.	National Doctor's Day	July 01, 2021	Barhat Bangar, Block Kalyanpur	Around 50 women and adolescent girls in the age group of 6 months to 5 years participated.



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5.	<p>World Population Day</p>	<p>July 11, 2021</p> <p>Keshavpuram, Housing Development No.-01, Kalyanpur</p> <p>Around 60 women displayed their best talent in embroidery competition.</p>
	<p>जनसंख्या दिवस को दिया एक नया नजरिया</p> <p>नव चेतन महिला समिति द्वारा कोशल विकास के अंतर्गत सिलाई व कढ़ाई की प्रतियोगिता का आयोजन किया गया। यह कहना था की अक्सर हम बेटे की चाह में बेटियों की कतार ना लगाए और ना ही उनको गर्म में उन्हे खुशी खुशी अपनाए और उनको अच्छी परवरिश व संस्कार दे। गरीब मानसिकता का यह सोचना की अधिक बच्चे विशेष तौर पर लड़के यानी उनके बुढ़ापा का सहारा होते है। वह मूल जाते है की प्रेम, ककणा और रिश्तो का महत्व तो परवरिश से आता है ना की बेटा बेटी के भेद भाव से। परिवार नियोजन का महत्व समझे बगैर युवा अवस्था मे शादी भी एक मुख्य चरेश्य रहा है की समाज बेटा व बेटी के भेद भाव से निकल कर सभी को मानवता की नजर से देखे तभी देश का विकास सम्भव है। पूजा दुग्गल ने प्रतियोगिता की सफलता सुनिश्चित की। सिलाई प्रतियोगिता के विजेता अरुणिता और कढ़ाई की विजेता सात्वत बानो और आरती वर्मा रहे। कार्यक्रम का संचालन अनुष्का गुप्ता द्वारा किया गया। समिति की अध्यक्ष सरिता चौरसिया, सचिव नीतू गुप्ता, उपाध्यक्ष ज्योति वर्मा, पुष्पा पांडेय, अंजु निगम, आरती वर्मा, सोनम वर्मा, संगीता रात्रे आदी उपस्थित रहे।</p>	<p>संक्षिप्त खबरें</p> <p>एचबीटीयू में हुयी सिलाई-कढ़ाई प्रतियोगिता</p> <p>कानपुर। एचबीटीयू में विश्व जनसंख्या दिवस के परिप्रेक्ष्य में नवचेतन महिला समिति के सहयोग से रविवार को सिलाई-कढ़ाई प्रतियोगिता का आयोजन किया, जिसमें 60 महिलाओं-बालिकाओं ने भाग लिया। कार्यक्रम में विवि के डॉ. विकास यादव, डॉ. अर्चना सिंह, प्रो. रीना सिंघल, अर्चना गौतम व नवचेतन महिला समिति की सचिव नीतू गुप्ता व अध्यक्ष सरिता चौरसिया ने भागीदारी की। समापन पर विजेताओं को पुरस्कृत किया गया। विवि कुलपति प्रो. समशेर ने सभी प्रतिभागियों को बधाई दी व रजिस्ट्रार प्रो. नीरज कुमार सिंह ने धन्यवाद ज्ञापित किया।</p>
6.	<p>International Justice Day</p>	<p>Online</p> <p>20 women of Village Maharajpur participated and were informed about various government schemes like women in registry, Kanyadhan Yojana, Widow Pension,</p>



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				Janani Suraksha Scheme, laws related to domestic violence, rights of women on property etc.
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7.	National Friendship Day	August 01, 2021	Gram Panchayat Gadatha	Mrs. Neetu Gupta, Secretary, Nav Chetan Mahila Samiti told about the schemes run by the committee for poor women like sewing,
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				embroidery, weaving and making paper envelopes etc. Around 100 women participated.
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8.	International Youth Day	August 12, 2021	Village Tatiaganj	The University WSC Committee went to around 50 houses of Village Tatiaganj for admission of village children in Anganwadi schools, girl students in primary & secondary schools and children of weaker sections.



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9..	Visit of Women Pradhans of Kalyanpur and Chaubepur Blocks	August 25, 2021	administrative offices of Kanpur city like District Court / Family Court, District Officer's Office / Tehsil Sadar, District Jail, Women's Police Station, Office of the Chief Medical Officer, Ursala Hospital/Dufferin Hospital (Maternity Center) were visited	16 Village Pradhans visited administrative offices of Kanpur city like District Court / Family Court, District Officer's Office / Tehsil Sadar, District Jail, Women's Police Station, Office of the Chief Medical Officer, Ursala Hospital/Dufferin Hospital (Maternity Center)



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100 YEARS
1921 - 2021



महिला प्रधानों को कैम्पस व सरकारी विभाग दिखाए

कानपुर। कुलाधिपति आनंदी बेन पटेल के निर्देश पर एचबीटीयू ने महिला प्रधानों को कैम्पस में आमंत्रित किया। विजिट कराया गया। थाना व अन्य सरकारी विभागों में ले जाकर जागरूक किया गया। कल्याणपुर एवं चौबेपुर ब्लॉक की प्रधान और अन्य 30 महिलाओं को न्यायालय, पारिवारिक न्यायालय, जिला अधिकारी कार्यालय, तहसील सदर, महिला पुलिस थाना, मुख्य चिकित्साधिकारी कार्यालय आदि का बस से भ्रमण कराया गया। ए डीसीपी दक्षिण रवीना त्यागी, अपर उप जिलाधिकारी रिजवाना शाहिद, अपर मुख्य चिकित्साधिकारी डॉ. शुभा मिश्रा, अपर जिला पंचायत अधिकारी शिव बिहारी शुक्ला ने महिला ग्राम प्रधानों को अनेक जानकारियां दीं।

10. Literacy Day

September 08, 2021

Nagar Nigam Inter College, Nawabganj Kanpur

87 students of Class VI and VII of Nagar Nigam Inter College, Nawabganj Kanpur participated in the lecture scheduled to promote the importance of education.





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11.	International Old Age Day	October 01, 2021	Barhat Bangar of Kalyanpur block	Around 35 old women were told about Ayushman, and the old age center being built by the government for the elderly, which will be in every village, and other schemes being run by the government.
				
12.	Gandhi Jayanti	October 02, 2021	Radhakrishnan Auditorium, HBTU	Around 150-200 faculty, staff and students participated in a forum discussing the ideologies of Mahatama Gandhi Ji and Lal Bhadur Shashti Ji.



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

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13.	International Girl Child Day	October 11, 2021	Radhakrishnan Auditorium, HBTU	Around 58 girls participated in an awareness program on training girls/women for self-defense.
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100 YEARS
1921 - 2021

14.	Children's Day	November 14, 2021	Bal Bhavan Phulbagh, Kanpur Nagar	A training camp was organized in which about 60-70 children participated.
				
15..	National Pollution Prevention Day	December 02, 2021	Kalyanpur block of Kanpur city	Women's Study Center highlighted the importance of cleanliness, clean drinking water, climate change and change in lifestyle, etc. to prevent pollution and around 28 women participated.



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

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16.	Energy Conservation Day	December 14, 2021	Colonelganj GIC Sub Station	Around 45 participants made aware of the way of using electricity, due to which the consumption of electricity and its bills can also be controlled.
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17.	Farmer's Day	December 14, 2021	village Garhwa Ramaipur block Bidhanu Around 50 women were made aware about commercial agriculture, minor irrigation fund, Kisan Credit Card, Pradhan Mantri Fasal scheme.
			
18..	International Family Day	January 01, 2022	Kalyanpur block of Kanpur city Around 35 women were informed about the schemes run by the government for various types of cottage industries, women's studies etc.



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100 YEARS
1921 - 2021

	<p>सह नरपाट पश का। पौड़त न थान म तहरार दा।</p> <p>एचबीटीयू: गांव में ग्लोबल फैमिली-डे मनाया गया कानपुर। हरकोर्ट बटलर प्राविधिक विश्वविद्यालय के महिला अध्ययन केंद्र ने रविवार को कल्याणपुर ब्लॉक में ग्लोबल फैमिली-डे मनाया। इसका आयोजन स्वयं सहायता समूह और ग्रामसभा की महिलाओं के साथ किया गया। डिप्टी रजिस्ट्रार एचबीटीयू एवं महिला अध्ययन केंद्र के सचिव डॉ. विकास यादव ने गरीबी उन्मूलन, महिला सशक्तिकरण एवं आर्थिक रूप से सक्षम होने के तरीके बताएं। केंद्र की संयोजक प्रो. रीना सिंघल ने सिंगल यूज प्लास्टिक, एडीओ पंचायत एके पांडे ने सरकारी योजनाओं की और सेंट्रल बैंक ऑफ इंडिया की शाखा प्रबंधक चारु श्रीवास्तव ने महिलाओं के लिए चलाई जा रही ऋण योजना के बारे में बताया। सुनीता यादव, नीतू गुप्ता, ज्योति मिश्रा, सविता, मिथिलेश रानी कमल, राजपूत हिमांशी रहे।</p>	<p>www.jagran.com</p> <p>महिलाओं के साथ मनाया ग्लोबल फैमिली डे जार्स, कानपुर : हरकोर्ट बटलर प्राविधिक विवि के महिला अध्ययन केंद्र की ओर से कल्याणपुर ब्लॉक में स्वयं सहायता समूह व ग्राम सभा की महिलाओं के साथ ग्लोबल फैमिली डे मनाया गया। इसका संचालन डिप्टी रजिस्ट्रार व केंद्र के सचिव डा. विकास यादव ने किया। उन्होंने महिलाओं को कुटीर उद्योगों के विकास के लिए सरकार की ओर से चलाई जा रही योजनाओं की जानकारी दी। केंद्र की संयोजक प्रो. रीना सिंघल, एडीओ पंचायत एके पांडेय, सेंट्रल बैंक आफ इंडिया की शाखा प्रबंधक चारु श्रीवास्तव रहीं।</p>		
19.	Birth Anniversary of Smt. Sarojini Naidu	February 13, 2022	Online	Discussion with around 100 women about the women's contribution in education, medicine and sports at the national and international level, presenting an example of a source of inspiration as a guide for the students and rural women.



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20.	National Science Day	February 28, 2022	Radhakrishnan Auditorium, HBTU Kanpur	A seminar and science exhibition was organized in which around 85 students participated.



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100 YEARS
1921 - 2021

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21.	International Women's Day	March 08, 2022	Radhakrishnan Auditorium, HBTU.	A check-up camp for girl students was organized in Radhakrishnan Auditorium which was attended by around 100 participants.
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100 YEARS
1921 - 2021



Outcomes: The SAWERA practice has been helping rural women by providing them with access to information, resources, and support that they may not otherwise have. These activities include education and training programs, health clinics and services, and community development initiatives. They have helped rural women to improve their economic status, gain new skills, and become more involved in their communities. Additionally, these activities have helped to break down social barriers and stereotypes, and provide a sense of empowerment for rural women. The following data gives a brief overview of the kind of impact we have made:

- A check-up camp for 100 girl students was organized in Radha krishnan Auditorium on International Women's Day (March 08, 2022), where girls were made aware of anemia and its repercussions.



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

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- 50 women were made aware about commercial agriculture, minor irrigation fund, Kisan Credit Card, Pradhan Mantri Fasal Scheme on the occasion of Farmer's Day held on December 14, 2021 in the village Garhwa.
- 130 child laborers (15-18 yrs) were made aware about the policy against child labour and were told the importance of education on June 12, 2021.
- 20 women of village Maharajpur were informed about various government schemes like women in registry, Kanyadhan Yojana, Widow Pension, Janani Suraksha Scheme, laws related to domestic violence, rights of women on property etc. on the International Justice Day celebrated on July 17, 2021
- Mrs. Neetu Gupta, Secretary, Nav Chetan Mahila Samiti told about the schemes run for poor women to promote sewing, embroidery, weaving and making paper envelopes etc. Around 100 women participated in the activity on August 01, 2021.
- The University WSC Committee went to around 50 houses of village Tatiaganj for admission of village children in Anganwadi schools, girl students in primary & secondary schools and children of weaker sections on the International Youth Day celebrated on August 12, 2021.
- Visit of Women Pradhans of Kalyanpur and Chaubepur Blocks was facilitated to the Administrative offices of Kanpur city like District Court / Family Court, District Officer's Office / Tehsil Sadar, District Jail, Women's Police Station, Office of the Chief Medical Officer, Ursala Hospital/Dufferin Hospital (Maternity Center) on August 25, 2021. This helped the Pradhans identify the offices for further perusal.
- 87 students of Class VI and VII of Nagar Nigam Inter College, Nawabganj Kanpur participated in the lecture scheduled to promote the importance of education held on the Literacy Day (September 08, 2021).
- Around 35 old women from Barhat Bangar, were told about Ayushman, and the old age center being built by the government for the elderly, which will be in every village, and other schemes being run by the government on the occasion of International Old Age Day (October 01, 2021).
- Around 58 girls participated in a self- defense training class organized on International Girl Child Day. (October 11, 2021).
- Around 45 participants from Colonelganj GIC Sub Station made aware of the way of using electricity, due to which the consumption of electricity and its bills can also be controlled on Energy Conservation Day (December 14, 2021).



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After understanding the problems and challenges faced by women/ girls, a book has been recently published to inspire rural women to excel in all aspects of life. The book is entitled “Aadarsh Naari” and has been authored by Dr. Vikas Yadav. This book comprises of activities conducted by WSC and its benefits. It was recently launched by Hon’ble Chancellor of the University.



Problem Encountered and Resources Required: There are no problems encountered in the task as all the involved stakeholders show keen interest in the same.



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