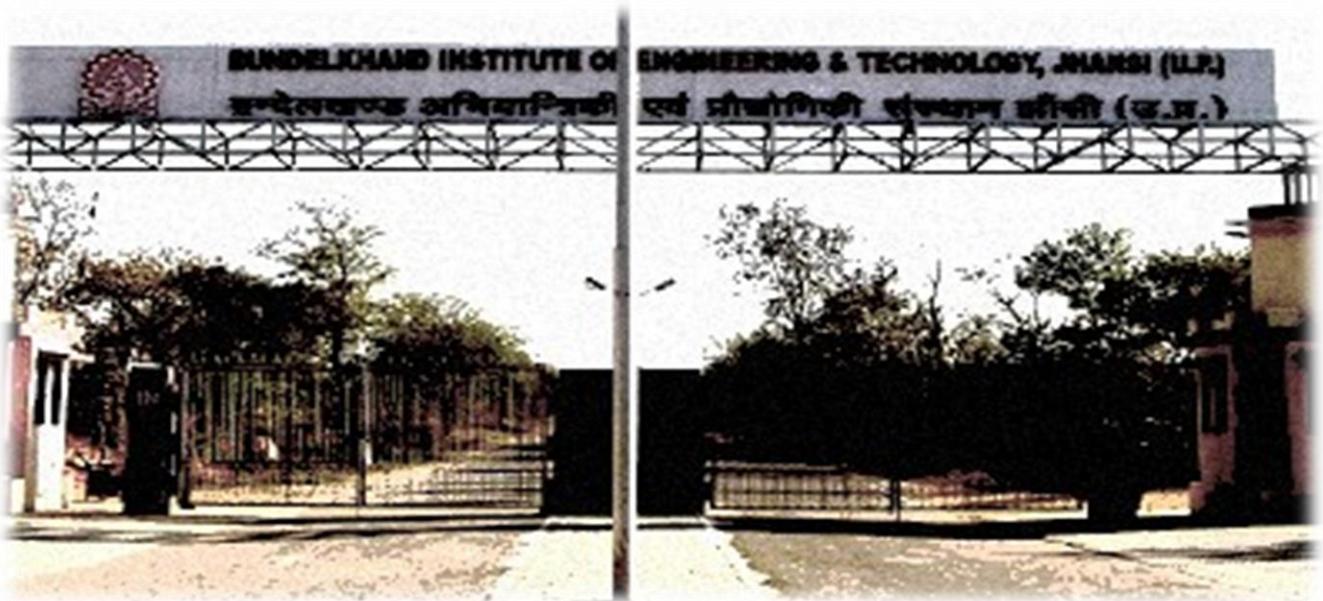




SANKALP

A Quarterly e-Newsletter | Volume 1

BUNDELKHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY, JHANSI



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OTHER STORIES INSIDE THIS :

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- Projecthon 1.0
- AICTE VISVESAVARAYA Best teacher award
- AICTE Innovation Ambassadors
- ATAL FDP
- CMI Level 5 Award from UK
- Outcome based education Classes
- Research article published on Outcome Based Education
- Our Star Alumni



Prof. Pulak Mohan Pandey

*Director, Bundelkhand Institute of Engineering
and Technology,
Jhansi-284128, UP*

Prof. Pulak Mohan Pandey is Director at Bundelkhand Institute of Engineering and Technology (BIET) Jhansi since 28th August 2021. He is a well known Mechanical Engineer in India. Prof. Pandey earned his M.tech and Ph.D from IIT Kanpur, B.Tech from HBTI now HBTU Kanpur. He has produced so far 40 Ph.Ds, supervised 37 M.Tech dissertations. Apart from this, he has published 22 patents and 3 patents are granted. He has a strong quality research publications in journals of repute. Prof. Pandey has rich experience in the field of academics, research and now leading BIET with strong administrative abilities.



Dr. Shahanaz Ayub

*Dean Research and Development,
Bundelkhand Institute of Engineering
and Technology,
Jhansi-284128, UP*

Dr. Shahanaz Ayub is an Associate Professor in Electronics and Communication Engineering Department. She is also the Dean Research and Development. Dr. Ayub is President of Institute Innovation Council and Coordinator of Innovation and Incubation Cell. She has keen interest in Outcome Based Education and actively involved in NBA Accreditation of UG programs. She is also the member of women's grievance redressal cell. Recently conferred with AICTE VISVESVARAYA BEST TEACHER AWARD 2021 by Hon'ble Education Minister Shri Dharmendra Pradhan ji.

Webinars

5 July 2021

Bundelkhand Institute of Engineering and Technology, Jhansi

Live Webinar NATIONAL WEBINAR ON CAREER OPPORTUNITIES AFTER ENGINEERING

Date: **05/07/2021** | Time: **11:00 AM to 01:00 PM**

Organized by Computer Science and Engineering Department, BIET Jhansi

Webinar Co-ordinators:
 Prof. V. K. Tyagi, Director, BIET Jhansi
 Dr. Shahanz Ayub, Dean R&D, BIET Jhansi
 Dr. Yashpal Singh, HOD, CSE, BIET Jhansi

Speaker:
 Mr. Anand Kumar, Motivational Speaker, Sr. Faculty Member at ACE Engineering Academy

In Association with **ACE Engineering Academy** (Leading Institute for ESE / GATE / PSU)

for **REGISTRATION**

Scan QR Code or go to <https://forms.gle/mLmQrvT34PZz7fx6>

Department of Computer Science and Engineering, BIET Jhansi in association with ACE Engineering Academy, jointly organised National Webinar on **Career Opportunities after Engineering.**

Expert : Mr. Anand Kumar, ACE Engineering Academy

7 July 2021

Department of Computer Science and Engineering, BIET Jhansi in association with CETPA Infotech, jointly organised a Webinar on Cyber Security.

Expert : Mr. Iftekhar Ahmad holding a rich experience in Cyber Security domain.

CETPA (Computer Education Training & Placement Agency)

National Webinar on CYBER SECURITY

Organised by Computer Science and Engineering Department, Bundelkhand Institute of Engineering and Technology, Jhansi in association with CETPA

on 7th July, 2021, 11:00 AM to 1:00 PM

Co-ordinators:
 Prof. V. K. Tyagi, Director, BIET, Jhansi
 Dr. Yashpal Singh, HOD, Computer Science & Engg. Deptt., & Webinar Co-ordinator
 Dr. Shahanz Ayub, Dean R&D, BIET, Jhansi & Webinar Co-ordinator

Speaker:
 Mr. Iftekhar Ahmad, Motivational Career Expert

Registration Link:- <https://forms.gle/xalTrkHDxwuw7RCA>

Partners: AUTODESK, Microsoft, PHIVY, CompTIA, Panasonic, etc.

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9 July 2021



Bundelkhand Institute of Engineering and Technology, Jhansi

Department of Computer Science and Engineering

Organises a Master Class (Webinar) on

"Blockchain Technology : Applications, Opportunities and Jobs"

9 July 2021 at 11 am (to 12:30 pm)

Through ZOOM Platform



Resource Person

Mr. Aravind Voruganti

Vice-President Blockchain Practice and Products IDS Inc, &
IBM Certified Advisor and Trainer

About Master Class (Webinar) : The topic "Blockchain Technology : Applications, Opportunities and Jobs" is of importance to students, faculty members of Computer, IT, Electronics and others towards learning and knowing one of the most emerging technologies that is used for banking, financial services to supply chain, telecommunications and IT services.

Chairman : Prof. V. K. Tyagi, Director, BIET Jhansi

Coordinators :

Dr. Yashpal Singh
Head, CSE, BIET Jhansi
Joining Link :

Dr. Shahanaz Ayub
Dean R & D, BIET Jhansi

<https://us02web.zoom.us/j/84543027023?pwd=NHh6Y0pScXpNhlU4SVVpLzEENjZlYT09>

Block Chain Technology webinar on 9 July 2021 was organised by Department of Computer Science and Engineering, BIET In association with IDS Inc. USF for all students and faculty members of BIET, Jhansi.

- **Chairman :** Prof. V. K. Tyagi,
Director, BIET Jhansi
- **Expert :** Mr. Voruganti
Aravind, Vice President,
Blockchain Practice and
Products, IDS Inc., US

14 August 2021

BIET Jhansi in association with Indian Institute of Patent and Trademark Attorney (IIPATA) and SPIU UP has organized National webinar for Students and faculty members on the
Topic: ' Patent first publish later 'on 14th August 2021

Expert : Ms. Cheshta Sharma, is Harvard trained IP expert.
The objective of the webinar is to motivate the B.Tech Students to file the patent of there ideas, B.Tech projects.
Chairman : Prof. V. K. Tyagi , Hon'ble Director, BIET JHANSI
Coordinator: Dr. Shahanaz Ayub, Dean R and D.



शोध प्रकाशन से पहले अस्थायी पेटेंट फाइल करें

अमर उजाला ब्यूरो

झांसी। किसी नए विचार या शोध को प्रकाशित करने से पहले उसका अस्थायी पेटेंट जरूर फाइल करें। यह बात आईआईपीटीए की निदेशक चेष्टा शर्मा ने पेटेंट फर्स्ट पब्लिश लेटर विषय पर हुए राष्ट्रीय वेबिनार में कही। शनिवार को बीआईआईटी में स्टेट प्रोजेक्ट इन्फ्लेमेटेशन यूनिट (एसपीआईयू) उत्तर प्रदेश एवं इंडियन इंस्टीट्यूट ऑफ पेटेंट एंड ट्रेडमार्क अटॉर्नी (आईआईपीटीए) के संयुक्त तत्वावधान में वेबिनार का आयोजन किया गया। इसमें चेष्टा शर्मा ने बीटेक प्रोजेक्ट के पेटेंट फाइल करने पर जोर दिया और कहा इसके बाद इसे प्रकाशित करें। उन्होंने पेटेंट फाइलिंग और पब्लिशिंग के

बीआईआईटी में हुई वेबिनार में बोली आईआईपीटीए की निदेशक चेष्टा शर्मा

स्टेप भी बताए।

निदेशक प्रो. वीके त्यागी ने कहा कि नवप्रवर्तन आज की जरूरत है। हमें छात्रों को नवप्रवर्तन के लिए प्रेरित करना और उनकी रचनात्मकता को संरक्षित करने के लिए पेटेंट फाइल करना चाहिए। जहां तक संभव है। इस महामारी के दौरान ऑनलाइन प्लेटफॉर्म से हम देश के नामी विशेषज्ञों को आसानी से जोड़ पा रहे हैं। उनके मार्गदर्शन और ज्ञान का लाभ शिक्षकों, छात्र-छात्राओं को दे पा रहे हैं। राष्ट्रीय वेबिनार की संयोजिका डॉ. शहनाज अयूब ने कहा कि इस वेबिनार के आयोजन की बेहद जरूरत है।

15 August 2021

Independence Day Celebration



21 August 2021



Bundelkhand Institute of Engineering and Technology, Jhansi
 Technical Education Quality Improvement Programme -III
 (A World Bank Assisted Project under Ministry of Education, Govt. of India)
State Project Implementation Unit, UP
 (Jointly Organised International Webinar Series on)
Mission Shakti-2021 : First Webinar
Transforming Nation through Women Empowerment: 21st August 2021, 3 PM
 (Under Equity Action Plan) Registration Link : <https://forms.gle/nCfSuBxRyNSxkAJ9>

				
Shri Alok Kumar, IAS Hon'ble Secretary, Technical Education, Government of Uttar Pradesh Chief Guest	Prof V K Tyagi Director, BIET Jhansi	Dr Anil Kumar SPA, SPIU UP	Ms Sacha Kaluri Director, Australian Teenage Expo Australia, : Expert	Prof Vinay Kr Pathak Hon'ble Vice Chancellor, CSJM University, Kanpur, UP Former VC, AKTU, Lucknow, UP, India Guest of Honor
				
	Dr Shahanaz Ayub Dean R & D, BIET Jhansi & Webinar Series Coordinator	Prof Aparna Raj ITHM, BU, Jhansi, UP, India Expert	Dr Sukanya Ray School of Ecology, TISS, Mumbai India, Expert	
				
			Dr Muthmainnah Al Asyariah Mandar University, Indonesia: Expert	

International Webinar on 'Transforming Nation through Women Empowerment' jointly organised by BIET Jhansi and SPIU Uttar Pradesh
 # First Webinar under International Webinar Series on Mission Shakti 2021, Phase 3 of Mission Shakti

Technical Education Quality Improvement Programme-III (TEQIP-III) is focusing all the issues of Quality, Access and Equity in the technical education. One of the mandate of TEQIP-III is: "Make campuses physically and socially gender-friendly; especially provide adequate and suitable facilities to women students."

Hon'ble Chief Minister, Uttar Pradesh CM Yogi Adityanath launched the 'Mission Shakti' programme on October 17, 2020 to ensure safety, respectability and empowerment (Suraksha, Atmasamman, Swalamban) of women in the state. The Mission was launched on the first day of Navratri and will be implemented for six months till the 'Basant Navratri', April 2021. Also Phase Three of Mission Shakti, Mission Shakti 3.0 will be launched by Hon'ble CM, UP, India on 21st August 2021.

It will continue till 31st December 2021. The flagship programme, 'Mission Shakti' has set a new landmark in women's empowerment. Ensuring safety, security and dignity, the state government stands by the motive to safeguard women's rights. This is meeting the mandate of TEQIP-III under Equity. Highlights of Mission Shakti

- The Mission Shakti has been launched with an aim to reduce crime.
- In the first phase of 'Mission Shakti', the focus was on spreading awareness on women safety and dignity.
- In the second phase, the mission was targeted the eve-teasers and perpetrators and punished them with stringent punishment.

- Hon'ble CM Yogi will honour around 75 women from every district of the state for their achievements.
- Focused on the all-round development of the women of the state, the third and entirely new phase of 'Mission Shakti' now aims at making women self-reliant and self-independent. It aims at providing police service at the doorstep of every woman, including those living in the rural areas.

To keep update the faculty members, administrators, researchers, students , staffs with Gender related issues including women empowerment, entrepreneurship and innovation and Mission Shakti 2020, State Project Implementation Unit (SPIU), UP with Bundelkhand Institute of Engineering and Technology, (BIET) Jhansi, under mandate of TEQIP-III and policy of the Government of Uttar Pradesh, are organising a International Webinar Series from 21st August 2021 onwards. This Saturday, on 21st August 2021 at 3 PM , the First in this series, a webinar is being organised on the topic, "Transforming Nation through Women Empowerment".

Dr. Sukanya Ray, Tata Institute of Social Sciences , Mumbai, MH, India, Pro. Aparna Raj, Bundelkhand University Jhansi, UP, India, Dr. Muthmainnah, International Speaker, Al Asyariah Mandar University of Teachers Training and Education Faculty, Indonesia will deliver expert talks.

WELCOMING DIRECTOR, BIET JHANSI

28 August 2021



- Prof. Pulak Mohan Pandey of IIT Delhi took charge of Director, BIET Jhansi on 28th August 2021.
- Prof. V. K. Tyagi, Director, Welcoming Prof. Pulak Mohan Pandey.



31 August 2021

- Webinar on "Resume Writing"



Bundelkhand Institute of Engineering and Technology, Jhansi

Technical Education Quality Improvement Programme -III

(A World Bank Assisted Project under Ministry of Education, Govt. of India)

Ureify

State Project Implementation Unit, Uttar Pradesh

(Jointly Organised Webinar on)

"Resume Writing"

31st August 2021, 05:00 PM to 6:30 PM



Capt Richik Sinha Roy
Co Founder, Ureify
Indian Territorial Army Officer
Expert



Prof P M Pandey
Director, BIET Jhansi



Dr Shahanaz Ayub
Dean R and D, BIET Jhansi and Webinar Coordinator



Dr Anil Kumar
State Project Administrator, SPIU UP



Dr Mahaveer Singh
Nodal Officer, Academic, SPIU UP

Chairman: Prof. P. M. Pandey, Hon'ble Director, BIET Jhansi

Coordinator: Dr. Shahanaz Ayub, Dean R and D, BIET Jhansi

Expert: Capt Richik Sinha Roy

- Cofounder Ureify
- Indian Territorial Army Officer
- Alumnus National University of Singapore
- Double degree in Engineering and Technopreneurship

• **Smart India Projecthon 1.0**

31 August – 16 September 2021

Innovation and Incubation Cell of BIET Jhansi in association with AIC EMPI New Delhi jointly organized National Level Event **Smart India Projecthon 1.0**

Atal Incubation Centre - EMPI
Supported by NITI Aayog, Atal Innovation Mission, GOI

Innovation & Incubation Cell
Bundelkhand Institute of Engg. & Tech., Jhansi

Jointly Organising

SMART INDIA PROJECTHON 1.0

Attractions:

- Cash Prizes
- Incubation possibilities at AIC-EMPI supported by BIET Jhansi & HDFC Bank
- Participation certificate to shortlisted teams

Important Dates:

- Last date for submission : 31st Aug 2021
- Presentation (Shortlisted Teams) : 06th-10th Sep 2021
- Announcement of Winners : 14th Sep 2021

Registration link
<http://tiny.cc/projecthon>

For any queries contact:

- Dr. Shahanaz Ayub - 9415587596
- Dr. Atul Kr. Dwivedi - 9713424754
- Mr. Ravindra Yadav - 8930935939

Event Supported By

HDFC BANK SmartUp NUMEREGION's TaraNG TEQIP NPIU SPIU IEEE IEEE IETE

Jury Memebers

 Mr. Vinod Midha Fmr. Exe. Director, BHEL CEO, AIC - EMPI, New Delhi	 Prof. P. M. Pandey Director, BIET Jhansi	 Prof. V K Tyagi Fmr Director, BIET Jhansi Professor Oil Technology, HBTU Kanpur	 Abhinav Mayaram Assistant Vice President Startup Evangelist, HDFC Bank	 Dr. Anil Kumar State Project Administrator, SPIU UP	 Prof. P.K. Singhal Chairman, IETE Bhopal
 Mr. Ravindra Yadav Tech. & Outreach Officer AIC-EMPI, New Delhi	 Dr Shahanaz Ayub Dean R & D and IIC President BIET, Jhansi	 Dr Atul Kr Dwivedi Innovation Ambassador BIET, Jhansi	 Dr. Mahaveer Singh Nodal Officer, SPIU UP	 Mr. Swapnil Gaul Director Numeregion	

It has provided the opportunity to develop further and incubate the prototype at AIC EMPI New Delhi) (supported by NITI Aayog, Atal Innovation Mission, GOI) free of cost, Patent filing guidance.

Collaborators:

SPIU UP, IEEE Vizg, IEEE MP Section, IETE Bhopal, NUMEREGION, Bhopal.

Smart India Projection 1.0

REPORT ON Webinar

Topic	Smart India Projection 1.0	
Date : 31st August 2021 to 16 Sept 2021	Inauguration : 9th September 2021 Time : 10 am for Stage 2 Final Presentations : 16 September 2021 , 3 pm	Venue : Online Host : BIET JHANSI
Experts and Jury members	Prof. Pulak M. Pandey, Director, BIET Jhansi, Dr. Shahanaz Ayub, Dean R and D, BIET Jhansi, Mr. Vinod Midha, CEO, AIC EMPI, New Delhi, MR. Ravindra Yadav, Technical Outreach Officer, AIC EMPI, Prof. P. K. Singhal, Chairman, IETE Bhopal, HDFC Officer	
Participants Present	Faculty mentors each for 12 teams , Students as team members and team leaders	
Outcomes	<ol style="list-style-type: none"> 1. To promote start ups in India 2. To develop entrepreneurship abilities among students 3. To incubate good ideas. 4. To promote make in India theme 	
Photographs	Screenshots attached	
Conveners and Co-	1. Dr. Shahanaz Ayub, Dean R and D, BIET, Jhansi, Convener	

conveners	2. Er. Ravindra Yadav, AIC EMPI, New Delhi
Brief Description	<p>Innovation and Incubation Cell of BIET Jhansi in association with AIC EMPI New Delhi organised National Level Event Smart India Projection 1.0</p> <ol style="list-style-type: none"> 1. Attractive Prizes and Certificates to winners 2. Certificates to all selected teams for Presentations 3. Opportunity to develop further and incubate the prototype at AIC EMPI New Delhi) (supported by NITI Aayog , Atal Innovation Mission, GOI) free of cost, Patent filing guidance 4. Team members can be multidisciplinary and can be from same institution or different institutions, can be from any semester. 5. Students who just have appeared /completed B.Tech final year, can submit there B.Tech Project 6. Maximum team members 4 and minimum 1 7. Registration form contains Basic information form in word format related to project technical details 8. Last date of application submission : 31st August 2021 9. 12 teams all over India were selected for stage 2 round from 9th September to 11th September 2021 10. Final presentation done on 16th September for First top five teams 11. Domains covered were Healthcare, agriculture, electrical, chemical technologies, Mechanical Engineering, Electronics Engineering 12. 3 top teams were finalised for Incubation support

AICTE VISVESVARAYA BEST TEACHER AWARD 2021



Dr. Shahanaz Ayub, Dean R and D, Bundelkhand Institute of Engineering and Technology (BIET), JHANSI has conferred with **AICTE VISVESVARAYA BEST TEACHER AWARD 2021**, which is honored to her on 5th September at AICTE Head Quarter in person by Hon'ble education minister Shri Dharmendra Pradhan ji . She received cash prize of ₹ 25000/-, shawl and Certificate.

One of the prestigious National Award.

डॉ. शहनाज अयूब को मिलेगा राष्ट्रीय पुरस्कार

झॉंसी : अखिल भारतीय तकनीक शिक्षा परिषद (एआइसीटीई) द्वारा तकनीक शिक्षा में उत्कृष्टता, नवप्रवर्तन क्षमता आदि को लेकर बेस्ट टीचर अवॉर्ड-2021 में इस बार बुन्देलखण्ड अभियान्त्रिकी व प्रौद्योगिकी संस्थान (बीआइइटी) की डीएन (आरएण्डडी) डॉ. शहनाज अयूब का चयन किया गया है। उन्हें 5 सितम्बर को केन्द्रीय मानव संसाधन मन्त्री धर्मेन्द्र प्रधान मेडल, 25 हजार रुपए व प्रमाण-पत्र देकर सम्मानित करेंगे। उन्हें नवप्रवर्तन, शिक्षण पद्धति, छात्र-छात्राओं के मूलांकन में नवप्रवर्तन, शिक्षक का कक्षा में प्रदर्शन, अकैडमिक शोध, पीएचडी, एमटेक मार्गदर्शन, प्रकाशित शोध पत्र, शोध प्रोजेक्ट आदि को लेकर सम्मानित किया गया। डॉ. शहनाज अयूब का कहना है कि वह राष्ट्रीय पुरस्कार पाकर गौरवान्वित हैं। राष्ट्रीय शिक्षा नीति के तहत हर एक छात्र-छात्रा को नव प्रवर्तन में मार्गदर्शन करना, प्रेरित करना व आत्मनिर्भर भारत के स्वप्न को साकार करना है। इधर, बीआइइटी के निदेशक प्रो. पीएम पाण्डेय ने इस उपलब्धि पर बधाई दी है।



AICTE INNOVATION AMBASSADORS

Following Five Faculty members have completed one Month AICTE Innovation Ambassador training program on **31st July 2021**.

- Dr. Shahanaz Ayub , IIC President
- Dr. Tarun Soota, ME dept.
- Dr. N.S Beniwal, ECE dept.
- Dr. Narendra Kumar,ME dept.
- Dr. Atul Kumar Dwivadi, ECE dept.

Conduction of Online Examinations for Even Semesters

Even Semester Examinations for the session 2020-21 for all B Tech , M Tech and MBA Students were conducted online during August – September 2021.

Commencement of Offline Classes started from 15th September 2021.

15 September 2021



After a long pandemic, at last offline classes for BTech, MTech and MBA Students have been started since 15th September 2021 at BIET Jhansi.



One week ATAL FDP during 21st Sept – 25th Sept

IMPORTANT DATES:
For External Participants:
Last date of Registration: September 19, 2021
Notification about Selection: September 20, 2021
Participants' Confirmation: September 20, 2021

ELIGIBILITY AND REGISTRATION
The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)

GUIDELINES

- No participation/ registration fees.
- Each participants has to register online on AICTE-ATAL portal for joining the course.
- Session time will be from 09:30 AM to 4:30 PM.
- Total number of participants is upto 200.
- Eligible participants will be selected based on first come first serve basis and will be intimated by email only.
- Coordinators decision will be final regarding the selection of participants.
- The certificates shall be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with **minimum 80% attendance and score minimum 60% marks in the test.**
- It is compulsory for each participant to fill the **Online Feed-back form** for getting certificate.



Bundelkhand Institute of Engineering and Technology, Jhansi- U.P.

Organized
One week Faculty Development Program(Online-mode)
Under
AICTE Training and Learning (ATAL) Academy Scheme
On
"Advances in Micro Manufacturing (AMM-2021)"
From
September 21-25, 2021

Coordinator
Dr. Arun Kumar Pandey
Associate Professor
Department of Mechanical Engineering
Bundelkhand Institute of Engineering and Technology, Jhansi (U.P.)

ORGANIZING COMMITTEE
PATRON
Prof. P. M. Pandey
Director, BIET, Jhansi

CHAIRMAN:
Prof. Sanjay Agarwal
Professor & Head
Mechanical Engineering, BIET Jhansi

Coordinator
Dr. Arun Kumar Pandey
Associate Professor,
Mechanical Engineering, BIET Jhansi

Co-Coordinator
Dr. Vijay Verma
Assistant Professor
Mechanical Engineering, BIET Jhansi

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Er. H. K. Singh, ISRO, Trivendrum
Dr. Ankur Gupta, Sc. E. ISRO, Bangalore

ABOUT THE INSTITUTION
Bundelkhand Institute of Engineering & Technology (B.I.E.T), Jhansi is located in the historical city of Maharani Lakshmi Bai. B.I.E.T., Jhansi was established in 1989. The institute consistently attracts the finest faculty and the best of students for its Bachelor's and Master's programs. At present, the institute offers seven B.Tech, seven M.Tech, and MBA programmes.

ABOUT THE DEPARTMENT
The Department of Mechanical Engineering is one of the pioneer and leading department in terms of well-educated faculty members, research activities as well as facilities. The department is NBA accredited for the period 2019-2022. The department offers B.Tech. and M.Tech. (Manufacturing Science & Tech. and Thermal Engg.). The department has well equipped labs with modern facilities such as equipment, measuring tools, advanced machines and latest software. The lab View for virtual instrumentation along with Temperature and Pressure sensors with DAQ card, Wire EDM, ZNC EDM, ECM, Computerized Hardness tester, Pin-on-disc Wear test apparatus, Microscope etc purchased under TQOP II grant are available in department. The department has well modern Virtual Class Room equipped with lecture recording and video conferencing systems.

INTRODUCTION
Rapid technological advancement after Second World War has led to the development of ultrahard, high-strength, high-temperature-resistant, difficult-to-machine materials for their increasing demand in technological advanced industries like aerospace, automotive, marine,

power plants, missile, and turbine industries. Microfabrications are the basis of manufacturing for nearly all modern miniaturized systems that are ubiquitously used in our daily life. Examples include; computer chips and integrated sensors for monitoring our environment, cars, mobile phones, medical devices and more. Producing complicated geometries, least metallurgical transformations, and maintaining high dimensional accuracy in products made of such materials become extremely difficult with the conventional Techniques.

COURSE OBJECTIVE
The objective of this short term course is to enrich the knowledge of participants in the emerging areas of advances in micro machining and their recent industrial applications, and to make participant aware of advancements occurring in this field. Furthermore, participants will be able to apply these theories and concepts in their research work and they can add it into their course curriculum. This course also covers different advances and challenges in the field of micro manufacturing.

COURSE CONTENTS

- Advanced Machining of micro systems
- Micro Electrical Discharge machining
- Electro Chemical machining macro and micro
- Micro Laser beam machining
- Micro-Hybrid Machining, Micro joining
- Micro and nano finishing Processes
- Modeling of Machining Processes
- Measuring techniques of micro machining
- Thermal aspects of micro machining
- Advances and challenges in Micro-manufacturing

List of Resource Persons

- Prof. Kapil Gupta, University of Johannesburg
- Prof. V. K. Jain, Retd. IIT Kanpur
- Prof. Sunil Pandey, IIT Delhi
- Prof. J. Ram Kumar, IIT Kanpur
- Prof. P. M. Pandey, Director, BIET Jhansi
- Prof. Santosh Kumar, IIT BHU
- Prof. A. K. Dubey, MNNIT Allahabad
- Dr. Meghanshu Vashishth, IIT BHU
- Dr. Manas Das, IIT Guwahati
- Dr. M. Ravi Shankar, IIT Tirupati
- Dr. Varun Sharma, IIT Roorkee
- Dr. Joy P. Mishra, IIT BHU
- Dr. B. N. Upadhyay, RRCAT Indore
- Mrs Sugandhi Parekh, Art of living, Benglore

CONTACT PERSONS



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आइआईटी में आयोजित किया जा रहा फेकल्टि डिवेलपमेण्ट प्रोग्राम

आइआईटी (बुन्देलखण्ड इंस्टिट्यूट ऑफ एन्जिनियरिंग) के मिकेनिकल एन्जिनियरिंग डिपार्टमेण्ट में 5 दिवसीय फेकल्टि डिवेलपमेण्ट प्रोग्राम आयोजित किया जा रहा है। समन्वयक अरुण कुमार पाण्डेय ने बताया कि संस्थान में यह पहला प्रोग्राम है, जिसको अखिल भारतीय तकनीकी शिक्षा परिषद द्वारा अटल अकैडमि की वित्तीय सहायता दी है। कार्यक्रम के मुख्य अतिथि आइआईटी कानपुर प्रो. जे राजकुमार ने माइक्रो मैनुफैक्चरिंग के ऐप्लिकेशन के बारे में चर्चा की। विश्व के माइक्रो व नैनो मैनुफैक्चरिंग की ओर बढ़ने पर भी जानकारी साझा की। आइआईटी वाराणसी के प्रो. विशिष्ट ने मैक्रो से माइक्रो करेक्टराइजेशन के बारे में विस्तार से बताया। कार्यक्रम के अन्त में आर्ट ऑफ लिविंग बंगलूरु के प्रो. पारेख स्ट्रेस मैनिजमेण्ट विषय पर अपने अनुभव साझा सेशन कराया गया।

Benefits of WAAM

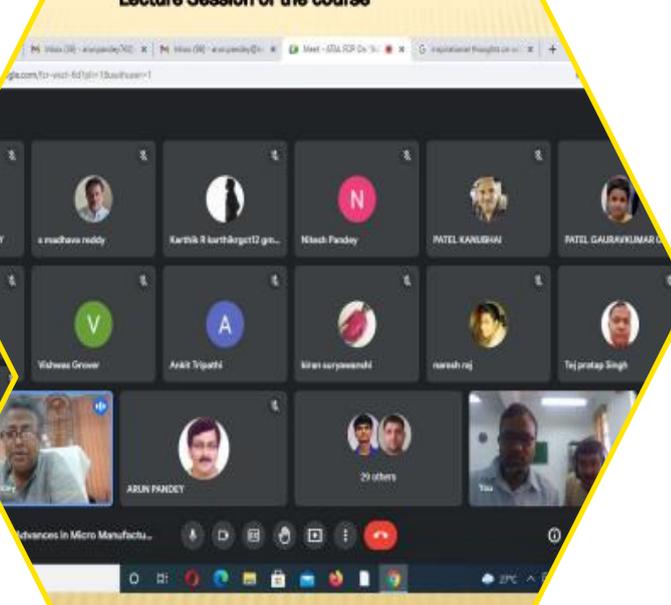
- Wide range of deposition rates (low to high)
- Near-Net shape and therefore reduced material loss
- Conventional machining time reduced to minimum
- Reduced lead times
- Good structural integrity
- Low to medium complexity components

Limitations of WAAM

- Residual stresses and distortions
- Materials require shielding (e.g. titanium)
- Surface finish (i.e., surface of produced part needs to be finished)



Lecture Session of the course



Valedictory Session of the course



• CMI Level 5 Award from UK

21 September 2021



Dr. Shahanaz Ayub had completed AICTE UKIERI leadership development PROGRAM . She has been conferred with CMI Level 5 Award from UK on 21st September 2021.

• Outcome Based Education class for CS Students

➤ By Dr. Shahanaz Ayub

25 September 2021





A webinar on "Industrial Design, Innovation and Entrepreneurship"

30 September 2021

बीआईआईटी में इंडस्ट्री डिजाइन, नवप्रवर्तन एवं उद्यमिता विषय पर ऑनलाइन हुई वेबिनार



विषयविदों ने रखे विचार

कैसे बनीं, और इस तरह के और उदाहरणों से छात्र छात्राओं को अवगत कराया। उन्होंने उद्यमिता के बारे में जानकारी दी। वेबिनार के विशेषज्ञ डिजाइन विभाग के आईआईटी दिल्ली के प्रो. सुमेर सिंह ने स्टार्ट-अप के बारे में जानकारी दी। उन्होंने उनके द्वारा बनाये गये उत्पादों के बारे में बताया। तथा अपने आनेवाली समस्याओं के बारे में अपने उत्पादकों को मार्केट में लॉन्च करने तक सभी प्रक्रिया विस्तार से बताई। वेबिनार की संयोजिका बीआईआईटी की डीन आर एण्ड डी डॉ. शहनाज अयूब ने संचालन किया तथा कहा कि इस तरह के वेबिनार के आयोजन से छात्र छात्राएं लाभान्वित होंगे। अंत में डॉ. प्रभु दत्त द्विवेदी ने संधिगत में आभार व्यक्त किया।

इंजीनी अयूब। बुन्देलखण्ड अभियांत्रिकी एवं प्रौद्योगिकी संस्थान (बीआईआईटी) इंजीनी में राजकीय इंजिनियरिंग कॉलेज अम्बेडकर नगर के संयुक्त तत्वावधान में इंडस्ट्री डिजाइन, नवप्रवर्तन एवं उद्यमिता विषय पर ऑनलाइन वेबिनार का आयोजन किया गया। बीआईआईटी के निदेशक प्रो. पुलक मोहन पांडे ने कहा कि नौकरी पाने के जगह नौकरी देने वाले बनें। उन्होंने कहा संस्थान की कई समस्याएं तकनीकी विकास से संबन्ध हैं, उनपर काम

करने की आवश्यकता है। राजकीय इंजिनियरिंग कॉलेज अम्बेडकर नगर के निदेशक प्रो. सन्दीप तिवारी ने कहा की शासन स्तर से प्रदेश के सभी तकनीकी संस्थानों में नवप्रवर्तन एवम् इनक्यूबेशन सेंटर स्थापित करने की योजना बन गई है, जिससे सभी क्षेत्रों के छात्र छात्राओं को लाभ मिलेगा। वेबिनार के मुख्य अतिथि आर डी सी अम्बेडकर नगर के प्रशासकीय बोर्ड के अध्यक्ष प्रो. एसएन उपाध्याय ने एक सार्वी व्यापार से पेर बिलप

नौकरी पाने वाला नहीं, देने वाला बनो...

इंजीनी अयूब : गुरुवार को बीआईआईटी (बुन्देलखण्ड अभियांत्रिकी एवं प्रौद्योगिकी संस्थान) में राजकीय इंजिनियरिंग कॉलेज अम्बेडकर नगर के संयुक्त तत्वावधान में इंडस्ट्री डिजाइन, नवप्रवर्तन व उद्यमिता विषय पर ऑनलाइन वेबिनार का आयोजन किया गया। वर्युअल वेबिनार में बीआईआईटी के निदेशक प्रो. पुलक मोहन पाण्डेय ने छात्र-छात्राओं को नवप्रवर्तन के लिए प्रेरित करते हुए कहा नौकरी पाने वाला नहीं, देने वाला बनो। मुख्य अतिथि आरईसी अम्बेडकर नगर के प्रशासकीय बोर्ड के अध्यक्ष प्रो. एसएन उपाध्याय ने एक सार्वी व्यापार से पेर बिलप बनाने जैसे कई उदाहरण दिए। इसके

उद्यमिता विषय पर बीआईआईटी में वेबिनार सम्पन्न

साथ ही उद्यमिता के बारे में विस्तार से चर्चा की। इंजिनियरिंग कॉलेज अम्बेडकर नगर के निदेशक प्रो. सन्दीप तिवारी ने कहा कि शासन स्तर से प्रदेश के सभी तकनीकी संस्थानों में नवप्रवर्तन एवं इनक्यूबेशन सेंटर स्थापित करने की योजना बन गई है, जिससे विद्यार्थियों को लाभ मिलेगा। वेबिनार विशेषज्ञ आइआईटी दिल्ली के डिजाइन विभाग के प्रो. सुमेर सिंह ने स्टार्ट-अप के बारे में बताया। वेबिनार संयोजिका बीआईआईटी की डीन आर एण्ड डी डॉ. शहनाज अयूब ने संचालन करते हुए ऐसे वेबिनार की आवश्यकता पर प्रकाश डाला। डॉ. प्रभु दत्त द्विवेदी ने आभार जताया।

BIET JHANSI and REC Ambedkar Nagar jointly organising a webinar on "Industrial Design, Innovation and Entrepreneurship" on 30th September 2021 at 3pm, Expert is Dr. Sumer Singh from IIT Delhi.

Research article published on Outcome Based Education

- By Dr. Shahanaz Ayub



Impact of Quality of Rubrics for Laboratory Subjects in attainment of maximum POs in Engineering - A Case Study Approach

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Abstract

Outcome based education in Engineering is essential criteria for NBA accreditation of engineering programs which ensures quality in education, teaching learning process and hence adds the value worldwide proving the attainments of set outcomes. NBA (National Board of Accreditation) has prescribed twelve program outcomes also called graduate attributes which a graduating UG student must attain. To attain this program outcomes, the courses in the curriculum is so designed that the course outcomes are very well mapped with program outcomes. Most of the times, it happens that first five POs mapped with maximum theory subjects which are domain related but remaining Seven POs are rarely mapped with theory subjects and hence if the laboratory subjects are not designed properly, one proper example of course "KEC552 Microprocessor and Microcontroller Lab" in third year of B.Tech Electronics and Communication Engineering program at Bundelkhand Institute of Engineering and Technology Jhansi, UP, India

Key Words : Outcome based Education, NBA, Accreditation, CO-PO Mapping, Rubrics, Attainment

1. Introduction

National Board of Accreditation is an autonomous body for accreditation of Engineering programs. It has prescribed essential parameters/ outcomes [1] to be achieved and the system follows is outcome based education (OBE). Accreditation not only boosts the confidence in stakeholders but students also gain worldwide recognition through their degrees as they have gained the graduate attributes prescribed by NBA. NBA has prescribed 12 graduate attributes which are called as Program Outcomes (POs). Every program is structured with theory and laboratory subjects. Each course is designed with atleast 3 to 6 course outcomes. Formulation of these course outcomes is done by a course committee during the development of the course syllabus. These course outcomes are designed based on levels of Revised Blooms taxonomy [2,3,4]. There are six levels of Revised Blooms taxonomy as Understand, Remember, Apply, Evaluate and Create. In UG and PG programs, first two levels that is understand and remember are not considered while designing the Course Outcomes (COs) and POs. To attain the POs, attainment of COs is essential. The course outcomes of all the courses are mapped with 2 program outcomes. The levels of COs are 1 for LOW, 2 for MODERATE, 3 for HIGH. It is possible that some of the program

Understanding Outcome Based Education and Accreditation



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