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UNIVERSITY BAREILLY

BUILDING VIBRANT PERSONALITIES



**SAMPLE OF ACTION PLANS FOR
ENHANCING LEARNING EXPERIENCES**

NAAC CRITERIA 2.3.1



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INVERTIS UNIVERSITY, BAREILLY

Department of Applied Sciences

“The only thing worse than being blind is having sight but no VISION”
Helen Keller

Vision

To groom professionals in the field of Basic and Applied Sciences who will bring about a qualitative change to the society through their contributions.

Mission

- To stimulate academic diligence, critical thinking and innovation.
- To enhance resource management skills for excellence in education.
- To develop the leadership capability of the students.
- To promote holistic individuals to be catalysts for social change.

Goal:

To put our knowledge, expertise, and skills for the benefit of the students & build brand of the department.

Following are points of action to achieve the above stated goal:

1. Faculty members without Ph.D. will register for Ph.D in this session.
2. Online guest lectures in Physics, Chemistry, Mathematics and Life sciences.
3. In coordination with CRC opportunities for internships and placements.
4. Celebration of **National Mathematics day** on 22nd December in seminar hall.
5. **ICRAS-2021** International conference from National science day 28th feb 2021.
6. **Virtual visit** may be arranged for students considering the current Corona situation.
7. **MATLAB workshop** for skill development of students and faculty members.

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8. Under TEL (Technology Enabled Learning) all faculty will continue to use and encourage students to use tools like "Classroom" by Google, "Team" by Microsoft and Virtual Labs by MHRD in conjugation with normal offline Teaching-Learning.

Action Plan (2020-21) (Odd & Even Semester)

S.No.	Activity	Targeted students	Date	Status
1	FDP on Mathematics	Faculties	July, 2020	completed
2	Online Guest Lecture in Chemistry	B.Sc. PCM, ZBC IInd and IIIrd year	Nov 2020	completed
3	Online Guest Lecture in Life Science	B.Sc. ZBC 2 nd & 3 rd Year	Nov 2020	completed
4	Online Guest Lecture in Physics	B.Sc. PCM & B.Sc.(H) IInd & 3 rd Year	Dec 2020	completed
5	Celebration of National Mathematics Day and Guest Lecture.	All BSc(H), BSc(PCM) & MSc (Math) Students	22 nd Dec 2020	completed
6	Virtual Visit for 1 st year students of BSc(PCM) & BSc(ZBC)	B.Sc. Ist year of all streams	Jan 2021	completed
7	Virtual visit for 1 st year students of BSc(H) Chem & BSc(PCM)	M.Sc. Maths IInd year	Jan 2021	completed
8	MATLAB Workshop	B.Sc.(H) M.Sc. Maths All	Feb 2021	completed
9	Industrial Visit to NESTLE Rudrapur.	M.Sc.(Chem.)All & B.Sc. Chem. IIIrd year	Feb 2021	completed
10	National Science Day Celebration	All IU members	28 Feb 2021	completed
11	ICRAS Conference	All students of ASH	March-April 2021	completed
12	Industrial Visit to COCA COLA Bareilly	BSc & M.Sc. (Chem.) 2 nd & 3 rd Year	March 2021	completed
13	Industrial Visit to IFFCO Aonla	M.Sc.(Chem.) & B.Sc.Chem IIIrd year	March 2021	completed
14	Academic Visit to Central Avian Research Institute, Bareilly	BSc(ZBC) 1 st year students	April May 2021	completed

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15	Academic visit to Aryabhata Research Institute for Observational Sciences, Nanital	BSc(H) and MSc(Phy) 1 st year students	April May 2021	completed
16	Academic Visit to National Institute of Solar Energy	BSc(PCM) & MSc (Phy) Final Year students	Apr-May 2021	completed
17	Skill development program	For all students	Apr-May 2021	completed
18	Computer Skill development program	For all students	Apr-May 2021	completed


Line of action for 2020-2021 (Odd & Even Semester)

The Department of Applied Sciences has adopted a comprehensive line of action to be implemented effectively in the coming semester:

S. No.	Line of Action	Persons Responsible	Time line
1	FDP on Mathematics	Dr K K Dubey	July - August 2020
2	Online Guest Lecture in Chemistry	Dr. Sandeepan Maity	Done on 17 th Nov 2020
3	Online Guest Lecture in Life Science	Dr. Satendra Singh	Done on 12 th Nov 2019
4	Online Guest Lecture in Physics	Dr. S P Gautam	Dec 2020
5	Celebration of National Mathematics Day and Guest Lecture.	Dr. K. K Dubey	Dec 2020
6	Target : Virtual Visit for 1 st year students of BSc(PCM) & BSc(ZBC)	Dr Sandeep Dixit	Jan 2021
7	Virtual visit for 1 st year students of BSc(H) Chem & BSc(PCM)	Dr Ruchi Mishra	Jan 2021
8	MATLAB Workshop	Dr Ashutosh Pradhan	Feb 2020
9	Industrial Visit to NESTLE Rudrapur.	Dr Kuldeep Chauhan	Feb 2021
10	ICRAS Conference	Dr Gopesh Chandra Sharma	March- April 2021
11	Industrial Visit to COCA COLA Bareilly	Dr Kirti Baranwal	March 2021
12	Industrial Visit to IFFCO Aonla	Dr Nishta Srivastava	March 2021
13	Academic Visit to Central Avian Research Institute, Bareilly	Dr Rangoli Krishna	April 2021

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14	Academic visit to Aryabhata Research Institute for Observational Sciences, Uttarakhand	Dr Sanjeev Kumar Jain	April 2021
15	Academic Visit to National Institute of Solar Energy, Gurugram	Mr Arun Kaushik	Apr-May 2021


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 DEPARTMENT OF PHARMACY
Action Plan (2020-21)
(Odd and Even Semester)

Vision:


To develop manpower, to meet the global requirement of skilled professionals in the rapidly growing pharmaceutical industry.

Mission:

Promote excellence in pharmaceutical education and to prepare the students to meet the challenges in the areas of pharmaceutical industry, research, education and development marketing

Goal:

1. To develop commitment for the quest of science
2. To provide comprehensive knowledge and experience
3. To provide exposure to the latest techniques and technologies.
4. To teach pharmacy ethics to the students.
5. To constantly explore newer frontiers of knowledge with the intention of producing quality pharmacists.


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 DEPARTMENT OF PHARMACY
Action Plan (2020-21)
(Odd and Even Semester)

The Department of Pharmacy has adopted a comprehensive line of action to be implemented effectively in the coming semester


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S. No	Activity	Targeted Students	Date	Students
1.	Fresher's Party	360	January 15, 2021	300
2.	White Coat Ceremony	120	March 20,2021	110
3.	Virtual Guest Lecture	360	May 28,2021	300
4.	International Webinar Series on COVID-19 Challenges for Pharmaceutical Sector and Future Planning	500	June 11-12, 2021	425
5.	Grooming Session on GPAT and NIPER	65	June 25, 2021	57
6.	Online Guest Lecture on Competitive Intelligence: A vital tool in Pharmaceutical Innovation	360	June 26, 2021	300
7.	Online Workshop on Corporate Interview Tips and Etiquettes	120	July 9,2021	110



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Department of Computer Science and Engineering Academic and Administrative Audit (AAA)-2019-20

“Successful and unsuccessful people do not vary greatly in their abilities. They vary in their desires to reach their potentials.” - John Maxwell

Vision

To groom professionals in the field of Computer Science who will bring about a qualitative change to the society through their contributions.

Mission

- To impart high quality professional technical training at the postgraduate and undergraduate level with an emphasis on basic principles of computer science and engineering.

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- To stimulate academic diligence, critical thinking and innovation.
- To empower the students with the required skills to solve the complex technological problems of modern society and also provide them with a framework for promoting collaborative and multidisciplinary activities.
- To develop the leadership capability of the students.

Goal:

To put our knowledge, expertise, and skills for the benefit of the students & build brand of the department.

Following are points of action to achieve the above stated goal:

S. No.	Line of Action	Person Responsible	Time Line	Status
1	Online Guest lecture on Change Management by Mr. Prashant Sharma, Lead Environment Health and safety, Canada	CRC Department	04, July, 2020	Successfully Completed
2	Webinar on Career opportunities by Srishti Agarwal Scientific officer, R& D Nuclear Power Cooperation of India Ltd	Dr. Gaurav Agarwal	31, October 2020	Successfully Completed
3	Virtual guest lecture on convergence on technology with industry 4.0 by Dr. Ashutosh Bhatt, Professor, Birla Institute of Applied Sciences, Bhimtal	Dr. Akash Sanghi	22 December 2020	Successfully Completed
4	Online awareness session on current scenario of Cyber Crime and its Safeguards	Mr. Suhail Javed	06 June, 2021	Successfully Completed
5	Webinar on Devops by Sonali Srivastava	Mr. Suhail Javed	10, June 2021	Successfully Completed
6	On line Hands on Workshop on Application of IoT using ARDUINO By Dr. Danish Athar, Associate Professor. Sharda University, Ujbekistan	Mr. Suhail Javed	12, June 2021	Successfully Completed
7	On line International Conference on Computational Techniques	Dr. Suhail Javed, Dr. Chandan Kumar	22-23 January, 2021	Successfully Completed

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Faculty of Engineering & Technology
Department of Computer Science and Engineering
Annual Report for Session 2020-21

1. Departmental Goals

- i. Motivate students for new projects and placement.
- ii. At least one workshop for enhancing the skills of students in the field of information technology.
- iii. At Least one research from each faculty member in the department in the reputed journal
- iv. Motivate faculty members to get enrolled in Ph.D. Program and who has enrolled in it motivate them to submit the thesis.
- v. Seminars and guest lectures from industry personnel for the motivation of students.

2. Conference/workshop/seminar organized

S.No	Title	Date	Name of the Conventer	No. of Participants
1	Online awareness session on current scenario of Cyber Crime and its Safeguards	06 June, 2021	Dr. Suhail Javed	Online, More then 300
2	On line International Conference on Computational Techniques	22-23 Janua ry, 20 21	Dr. Suhail Javed, Dr. Chandan Kumar	Online

3. Guest Lectures Organized

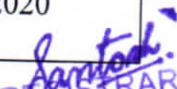
S.No.	Name and affiliation of expert	Title of the lecture	Date
1	Online Guest lecture on Change Management by Mr.	Change management	04, July, 2020

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	Prashant Sharma , Lead ,Environment health and safety, Canada		
2	Webinar on Career opportunities by Srishti Agarwal Scientific officer, R& D Nuclear Power Cooperation of India Ltd	Career opportunities	31, October 2020
3	Webinar by Dr. Ashutosh Bhatt, Professor, Birla Institute of Applied Sciences, Bhimtal	convergence on technology with industry 4.0	22 December 2020
4	Webinar on Devops by Sonali Srivastava	Devops	10, June 2021
5	On line Hands on Workshop on Application of IoT using ARDUINO By Dr. Danish Athar, Associate Professor. Sharda University, Ujbekistan	Application of IoT using ARDUINO	12, June 2021

4. Publication details (faculty members/students)

S.No.	Author	Title of paper	Name of Journal	Publication status	Month & Year of Publication
1	Rahul rastogi, Gaurav agarwal	Interactive Security of ransomware using heuristic random bit generator	Lecture notes of in electrical engineering (Book Chapter)	Published	2020
2	Meeta Chaudhry	Recursive density based hierarchical clustering in Gaussian distributed sensor network	International Journal of Assur.Eng. Mang.	Published	26 June, 2020
3	Ravi Shukla	Deep learning bidirectional LSTM based detection of prolongation and repetition in stuttered speech using weighted NFCC	International journal of Advanced Computer Science and Applications	Published	2020
4	Ravi Shukla	Weighted melfrequency	Indian journal of	Published	2020


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		cepstral coefficient based feature extraction for automatic assesment of stutterd speech by using bidirectional LSTM	Science and Technology		
5	Ravi Shukla	An optimized handover mechanism for VANET	International Journal of advance science and technology	Published	2020
6	Gaurav Agarwal	A fuzzy based decision support system for irrigation process in Precision agriculture	SMART-IEEE	Published	4-5 December 2020
7	Anil Pandey	Solving component identification problem by using evalutionary method	International journal of Engineering and advanced Technology	Published	Feburary,2020
8	Gaurav Agarwal	ABE approach in cloud storage	IJRAR	Published	2020
9	Gaurav Agarwal	Real time health monitoring system	International journal of control and automation	Published	2020
10	Meeta Chaudhry	Particle swarm optimization	International journal of Swarm intelligence research	Published	2021
11	Meeta Chaudhry	Enhanced encryption mechanism with S-box splitting for wireless sensor networks	Int. J. of. Inf. Tecnon.	Published	2021
12	Gaurav Agarwal	Secure text extraction from complex degraded images by applying steganography and deep learning (Book Chapter)	IGI Global	Published	2021

5. Membership/association of the faculty members in professional bodies

S.No.	Name of the faculty	Name the body/society	Membership/Association type
1	Dr. Chandan Kumar	Institute For Engineering Research and Publication (IFERP)	Professional Member
2	Dr. Akash Sanghi	Institute For Engineering Research and Publication (IFERP)	Professional Member
3	Dr. Gaurav Agarwal	International Association for cryptographic research	Life time member
4	Dr. Gaurav Agarwal	International association for engineer	Life time member
5	Dr. Gaurav Agarwal	Indian society for technical education	Life time member
6	Suhail Javed Quraishi	International association for engineer (IAENG)	Life time member (Membership No: 226389)
7	Suhail Javed Quraishi	Institute For Engineering Research and Publication (IFERP)	Professional Member (PM76458230)
8	Suhail Javed Quraishi	Institute of Electrical and Electronics Engineers (IEEE)	Student Member
9	Suhail Javed Quraishi	Computer Society of India (CSI)	Institutional Member

**Signature of the HOD
(Dr. Gaurav Agarwal)**

**Signature of the Dean
(Prof. R. K. Shukla)**

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Online Guest Lecture


For B.Tech. CSE 2nd & 3rd Year Students

Presented By –
Sonali Srivastava
Training Partner at DataDewins

Topic –
DevOps

10th | JUNE 2021
11:00 AM Onwards

Organized By: Department of Computer Science and Engineering



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Online Hands-on workshop

Organized By: Department of Computer Science and Engineering
For B.Tech. CSE 2nd, 3rd Year & 4th year Students

Resource person –
Dr. Danish Ather
Associate Professor
Faculty of Engineering & Technology,
Sharda University Audijan, Uzbekistan

Topic –
APPLICATION OF IOT USING ARDUINO

12th JUNE 2021
02:00 PM Onwards











PATRON



Dr. Umesh Gautam
Chairman, Invertis University

ADVISORY COMMITTEE

 Prof. Y.S. Arora	 Prof. B.C. Vyas	 Smt. L.P. Mishra
 Prof. B.C. Shukla	 Prof. Manish Gupta	 Prof. P.P. Singh
 Mr. Suresh Kumar	 Prof. J.N. Srivastava	 Dr. Narendra Gupta
 Prof. S.S. Badi	 Prof. Mahesh Dubey	 Prof. Rajat Shrivastava

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International Conference on Computational Techniques

ICCT-2021

Recent Trends and Issues

22nd & 23rd January, 2021

Organized by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
IN ASSOCIATION WITH
COMPUTER SOCIETY OF INDIA (CSI), ALLAHABAD CHAPTER

PUBLICATION PARTNER

CHIEF GUEST



Prof. Omprakash G. Kulkarni
Head of Department, PCCOER, Pune

KEYNOTE SPEAKERS

 Prof. A.K. Nayak	 Prof. Manish Kumar	 Prof. Vinay Shrivastava
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INVITED SPEAKERS

 Dr. Purnima Prasad	 Dr. Chaitanya Singh	 Mr. Anshu Srivastava
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ORGANIZING COMMITTEE

 Dr. Subash J. Kumar	 Dr. Chaitanya Kumar	 Dr. Manish Kumar
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Department of Civil Engineering

Vision

The vision of the Department of Civil Engineering is to impart quality knowledge theoretically and practically to enable the learners of undergraduate course to generate and develop skills to serve nation in the field of civil engineering and enable to be recognized internationally. The learners would be able to develop themselves as researchers and can be an asset for advanced inventions in the respective field through integration of education and leadership.

Mission

The mission of the Department of Civil Engineering is to prepare students for professional practice, graduate study, life-long learning, and societal leadership and to improve the scientific and technological basis for civil and environmental engineering practice. To fulfill this mission, the Department seeks to provide a high quality undergraduate program with instruction in all the fundamental areas of civil engineering, to conduct a distinguished program of research and graduate study in selected areas of civil engineering, and to disseminate advanced technical knowledge to engineers, other professionals, and the public. This is accomplished as per following-

- One of the methods used to determine strategic goals for the department is a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis.
- To provide the facilities and environment conducive to high quality education to get diverse career as well as research in the field of Civil Engineering.
- To engage the students in academic as well as scholarly activities, that strengthens the department reputation in the global market.
- To ensure faculty and student's participation in design projects, research, or other similar activities, essential to their professional development and societal development.

Goal:

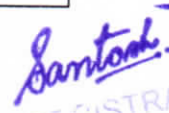
Based on the results of the SWOT analyses, as well as discussions that followed, the following strategic goals were developed to address critical areas identified through this process:

1. Organise industrial visit to provide practical exposure to the students.
2. Provide platform for students to interact with faculties of IITs/NITs and other industrial professionals by organising webinars, seminars and guest lectures.
3. Emphasize on final year project of Diploma and B.Tech. Ensuring the project is research oriented.

4. Encouraging students to participate in conferences and workshops organised in IITs/NITs.
5. Arrange interactive session for students with Alumni working with MNCs and govtorganisation, in order to encourage students.
6. Organise workshop for students.
7. Organise special classes for students to prepare for GATE-2021 and other competitive exams.
8. Encouraging faculties to involve in research work.
9. Faculties will attend short term courses and conferences organised by various prestigious institutions.

Action Plan (2020-21)

S. No.	Activity	Date
1	Webinar on "COVID-19, Stress Management & Mental Wellbeing" by Dr. Sanjay K Singh, Asst. Dean, OPJU, Raigarh	30 August, 2020
2	Webinar on "Change of Season: Increasing Air Pollution – Way Forward" by Prof. Anil K Gupta, Head, ECDRM Division, NIDM	22 October, 2020
3	Webinar on "Civil Engineering & Disaster Risk Reduction (DRR)" by Prof. Chandan Ghosh, Professor, IIT Jammu	19 November, 2020
4	Webinar on "Types of Cement & Role of Blended Cement in Current scenario" by Mr. Vikas Bhandi, State Head UP-2, JK Cement Ltd.	01 December, 2020
5	Webinar on "Structural retrofitting for Earthquake Risk Mitigation" by Dr Amir Ali Khan, Assistant Professor NIDM	17 December, 2020
6	Webinar on "Role of Youth in Disaster Management" by Mr. Shekhar Chaturvedi, Central Secretariat Officer	12 January, 2021
7	Guest Lecture on "Land Acquisition for Expansion of Railway Network in India" by Mr. Shashank Shekhar, Executive LA	25 February, 2021
8	Industrial visit to "Ram Ganga Barrage, Bareilly"	17 March, 2021
9	Three days training workshop cum FDP on "Urban Disaster Management" by Major General Manoj Kumar Bindal, Executive Director NIDM	12-14 April, 2021
10	Seminar on "Special Concrete and its Application" UltraTech Ltd. by Er. Jayesh Parmar, Regional Head (Delhi/Haryana) UltraTech Ltd.	12 May, 2021
11	Webinar on "Flood Risk management and Pathways" Prof. Anil K Gupta, Head, ECDRM Division, NIDM	28 June, 2021


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Line of action for 2020-21

The Department of Civil Engineering has adopted a comprehensive line of action to be implemented effectively in the coming academic year:

S. No	Line of Action	Persons Responsible	Timeline
1	Webinar on "COVID-19, Stress Management & Mental Wellbeing" by Dr. Sanjay K Singh, Asst. Dean, OPJU, Raigarh	Mr. Awdhesh Kumar	30 August, 2020
2	Webinar on "Change of Season: Increasing Air Pollution – Way Forward" by Prof. Anil K Gupta, Head, ECDRM Division, NIDM	Mr. Awdhesh Kumar	22 October, 2020
3	Webinar on "Civil Engineering & Disaster Risk Reduction (DRR)" by Prof. Chandan Ghosh, Professor, IIT Jammu	Mr. Awdhesh Kumar	19 November, 2020
4	Webinar on "Types of Cement & Role of Blended Cement in Current scenario" by Mr. Vikas Bhandi, State Head UP-2, JK Cement Ltd.	Mr. Arvind Kumar	01 December, 2020
5	Webinar on "Structural retrofitting for Earthquake Risk Mitigation" by Dr Amir Ali Khan, Assistant Professor NIDM	Mr. Awdhesh Kumar	17 December, 2020
6	Webinar on "Role of Youth in Disaster Management" by Mr. Shekhar Chaturvedi, Central Secretariat Officer	Mr. Awdhesh Kumar	12 January, 2021
7	Guest Lecture on "Land Acquisition for Expansion of Railway Network in India" by Mr. Shashank Shekhar, Executive LA	Mr. Rohit Pathak	25 February, 2021
8	Industrial visit to "Ram Ganga Barrage, Bareilly"	Mr. Shravan Kishor Gupta	17 March, 2021
9	Three days training workshop cum FDP on "Urban Disaster Management" by Major General Manoj Kumar Bindal, Executive Director NIDM	Mr. Awdhesh Kumar	12-14 April, 2021
10	Seminar on "Special Concrete and its Application" UltraTech Ltd. by Er. Jayesh Parmar, Regional Head (Delhi/Haryana) UltraTech Ltd.	Mr. Ankit Kumar	12 May, 2021
11	Webinar on "Flood Risk management and Pathways" Prof. Anil K Gupta, Head, ECDRM Division, NIDM	Mr. Awdhesh Kumar	28 June, 2021

(Mr. Shravan Kishor Gupta)
HOD

(Prof. R.K. Shukla)
Dean Engineering & Technology

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