

ANNUAL REPORT PROFORMA
(01.07.2021 TO 30.06.2022)

(I) Name of the Department: Environmental Science & Engineering

(II) Year of Establishment: 1994

(III) (a) State the vision of the Department: Pursuance for excellence to achieve Sustainable Development

(b) State the mission of the Department: To impart training for capacity building, to tackle various Environmental Challenges in an Eco-friendly manner.

(c) State the objective of the Department (As resolved by Staff Council):

i) To offer professional and joboriented Course curricula

ii) To strengthen R & D activities.

iii) To offer consultancy and extension activities to stakeholders

(IV) Programme (s) offered in the department

Programme	Sanctioned intake	Present students' strength
Ph.D.	As per university norms	5
P.G.		
M.Sc. (EVS)	55	45
M.Tech. (ESE)	20	05
M.Tech (GIS)	20	08
U.G	----	--
Any other	----	--

(V) Faculty details

(Attach a list of the Faculty along with their qualifications, teaching and research experiences, and any specific achievements (if any))

	<i>Sanctioned</i>	<i>Filled</i>	Under CAS
Professor	2	----	
Associate Professor	2	-----	
Assistant Professor	8	5 +6	6 are promoted as Professor

List of the Regular Faculty along with their qualification and experience

Name of Teacher	Designation	Qualification	Experience (Years)
Dr. Parveen Sharma	Professor	M.Sc., Ph.D.	25.5
Dr. R. Baskar(EOL)	Professor	M.Sc., Ph.D.	24
Dr. (Ms.) Asha Gupta	Professor	M.Sc., Ph.D.	23
Dr. Mukul Bishnoi	Professor	M.Sc., Ph.D.	23
Dr. Rajesh Kumar	Professor	M.Tech.,Ph.D	17.5
Dr. Jitender Pal	Professor	M.Tech.,Ph.D	17.5
Dr. Anu Gupta	Assistant Professor	M.Tech.,Ph.D	9
Dr. Mona Sharma(EOL)	Assistant Professor	M.Sc., Ph.D.	8
Dr. Santosh Bhukal	Assistant Professor	M.Sc., Ph.D.	3.5
Dr. Anita Singh Kirrolia	Assistant Professor	M.Sc., Ph.D.	8
Dr. Lakhvinder Singh	Assistant Professor	M.Sc., Ph.D.	9

(VI) Office staff details

Designation	Sanctioned	Filled
Assistant-cum-DEO	1	-
Lab.Tech. Instrumentation	1	-
Store Keeper	1	1
Technical Asstt. Gr.II	1	-
Lab.Attndt	3	3
Clerk	1	1
Steno-Typist	1	1
Peon	2	2
Technical Asstt.Gr.I	1	2
Lab. Technician	2	2

(VII) a. Students detail in respect of M.Sc., M.Tech. M.Pharm., M.Ph.Th., M.Com. MBA and MCA Programmes

Programme	Sanctioned Intake	Students admitted 1 st Year	Students Present in Final Year
Ph.D.	As per university norms	5	56
M.Sc. (EVS)	55	45	51
M.Tech. (ESE)	20	05	17
M.Tech (GIS)	20	08	16

b. Students' detail in respect of B.Tech , B.Pharm. andB.P.Th. Programmes: NA

1 st Year		2 nd Year		3 rd Year	4 th Year
Sanctioned Intake	Students admitted	Sanctioned intake through LEET	Students Present Second year	Students Present third year	Students Present fourth year

c. Detail of Foreign Students if any, admitted in the Department: NA

Sr. No.	Name of Course	No. of students Admitted	Name of Country

(VIII) Research Scholars

Intake capacity	Total no of Ph.D. students	Registered during the year	Thesis completed during the year	Specify number of different fellowships
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As per University norms	56	06	03	UGC-BSR, NFOBC, JRF, NFSC, AICTE
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(IX) Sponsored Research/ Consultancy Projects:

(a)

Total No. Of projects in progress during the academic current year	Total no. Of Projects awarded during academic current year	Total No. Of projects completed during academic current year
02	02	02

(b)

Title of the Project	Name of the Investigator(S)	Status: Completed/In progress	Nature: Research/ Consultancy	Month& Year of Award
Production and Application of Biochar for Environmental Remediation	Dr. Mona Sharma	In Progress	Research	2019
Room Temperature Ionic Liquid (RTIL)/RTIL Modified Nanostructures Based Extraction of Water Contaminants: A Green Approach	Dr. Santosh Bhukal	In Progress	Research	2019
Synthesis of silica nanoparticles from rice -straw	Dr. Anu Gupta	Completed	Research	Feb,2022
Synthesis and characterization of magnetic nanoparticles (MNPs) for harvesting microalgae	Dr. Anita Singh	Completed	Research	Feb,2022

(X) Number of Publications of the Faculty (in Total)

Books and Book Chapters/Monographs etc		Research papers		Research papers		Other Articles	
International	National	SCI/Scopus	UGC Care	Refereed	Non refereed		
02	05	13	13	13	0		

(XI) Faculty wise detail of publication during the period

a) Books/Book Chapters/ Monograph etc.

S. No.	Authors	Title	Year of publication	Type of books (Text/Reference /Report)	Publishers
1.	Jaipal, Hardeep Rai Sharma and Asha Gupta	Greenhouse Gases Emissions from Agriculture: Management and Mitigation Strategies	2022	Text	NEW INDIA PUBLISHING AGENCY (nipa)
2.	Bhateria, R., Mona, S., Sharma, Y.	Green Synthesized Iron Nanoparticles for Environmental Management: Minimizing Material and Energy Inputs	2021	Reference	Springer
3.	A. Bhardwaj, A. Gupta	Formal and Informal Learning during	2022	Reference	KAHV Publications

		COVID-19: Role of Online Platforms In book: Digital Disruption and Transformation - A Multi-Disciplinary Perspective			
4.	P.Kumar, A. Gupta	Global Impact of COVID- 19 on the Manufacturing Industry and Supply Chain Management: An Indian Perspective In book: Strategic Management During a Pandemic	2021	Reference	Routledge
5.	Lata, M., & Gupta, A.	Education During the Pandemic: Technology-Based Solutions in book Stakeholder Strategies Reducing Impact Global Health Crises	2021	Reference	IGI-Global
6.	Bhardwaj, A., Gupta, A.; Kumar, S	CSR as a Stakeholder to the COVID-19 in book Stakeholder Strategies Reducing Impact Global Health Crises	2021	Reference	IGI-Global
7.	Shafila Bansal, Priya Saharan, Santosh Bhukal*	Covid-19 Pandemic: A Boon or Bane To The Environment	2021	Reference	IGI-Global

S No.	Authors	Year	Title of paper	Name of journal	Publishers	Vol . & No.	Pages	SCI/ Scopus (Yes/No)	Impact factor
1.	Mandeep Kaur, Santosh Kumari, Praveen Sharma	2022	<u>Response surface methodology adhering central composite design for the optimization of Zn (II) adsorption using rice husk nanoadsorbent</u>	Chemical Physics Letters	North-Holland	801	139684	Yes	2.3
2.	Jyoti Jaglan, Andrew C Singer, Praveen Sharma, Savita Jaglan	2022	<u>Tinospora cordifolia-leaves aqueous extract biocidal activity on gram-negative bacteria</u>	GSC Biological and Pharmaceutical Sciences	GSC Online Press	19	5-8	Yes	
3.	Mandeep Kaur, Praveen Sharma, Santosh Kumari	2021	<u>State of art manufacturing and producing nanocellulose from agricultural waste: a review</u>	Journal of Nanoscience and Nanotechnology	American Scientific Publishers	21	3394-3403	Yes	1.13
4.	Mandeep Kaur, Praveen Sharma, Santosh Kumari	2021	<u>Utilization of Agricultural Waste from Paddy (Rice) Fields for the Synthesis of Nanocellulose</u>	Journal of Nanoscience and Nanotechnology	American Scientific Publishers	21	3622-3629	Yes	1.13
5.	Anil Nain, Rajesh Kumar Lohchab, Kulbir Singh, Mikhlesh Kumari, Jitender Kumar Saini, Paramjeet Dhull	September 2021	Characterization and categorization of Municipal solid waste of a disposal site: An investigation for scientific management	Pollution Research	EM International	40(3)	877-883	Yes	0.516
	Kulbir Singh, Rajesh Kumar Lohchab, Mikhlesh Kumari, Vikas Beniwal	October 2021	Potential of TiO ₂ loaded almond shell derived activated carbon for leachate treatment: Isotherms, Kinetics and Response surface methodology	International Journal of Environmental Analytical chemistry	Taylor and Francis	41(2)	1-22	Yes	2.826
	Kulbir Singh, Rajesh Kumar Lohchab, Paramjeet Dhull, Priti Kumari, Vishu Choudhary, Jyoti Bala	June 2022	Solid wastes generation at various zones of Universities campus: Characterization and its management approaches	Pollution Research	EM International		557-568	Yes	0.516
	Kulbir Singh, Rajesh Kumar Lohchab, Mikhlesh Kumari	July 2022	Impregnation of zinc oxide nanoparticles on activated carbon synthesised from corncob for	International Journal of Environmental Analytical Chemistry	Taylor and Francis		1-24	Yes	2.826

			appraisal of leachate chemical oxygen demand removal potential						
6.	Poorna Khaneja, Ratna Singh, Niti Sakhuja, Arashdeep Singh, Kalpa Mandal & Anu Gupta	2021	Impact of Corona Virus Epidemic on Solid Waste Management: Challenges, Opportunities, and Progress	Env. Pharmacol. Life Science	Academy for Environment and Life Sciences	Vol 10 [8]	38-47	NO	--
7.	Gupta, A.	2022	Influence of Filler Content on Tribological Behavior of Cenosphere Flyash Filled Bamboo Fiber Reinforced Composites	Journal of Natural Fibers	Taylor & Francis	Vol 19 (15)	12051-12067	Yes	5.323
8.	Panghal, V., Shatma, P., Mona, S., Bhateria, R.	2021	Determining groundwater quality using indices and Multivariate Statistical Techniques: a study of Tosham block, Haryana, India.	Environmental Geochemistry and Health	Springer	44	3581-3595	Yes	4.898
9.	Mona, S. Malyan S.K., Saini, N., Deepak, B., Pugazhendhi A. Kumar S.S.	2021	Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar.	Chemosphere	Elsevier	275	129856	Yes	8.943
10.	S Mor, Santosh Bhukal, Narsi Ram Bishnoi,	2022	Crop Residue Burning: Impacts, Management Techniques and Policies	Annals Of Biology	Agri Bio Publishers		Accepted		-
11.	<u>Sahil Mor, Santosh Bhukal, Narsi Ram Bishnoi & Khaiwal Ravindra</u>	2022	Diurnal Variations in the Air Pollutants Concentration over Haryana, India, and Understanding their Emission Sources	<u>Water, Air, & Soil Pollution</u>	Springer		233-277	Yes	2.98
12.	S Mor, T Singh, NR Bishnoi, S Bhukal, K Ravindra	2022	<u>Understanding seasonal variation in ambient air quality and its relationship with crop residue burning activities in an agrarian state of India</u>	Environmental Science and Pollution Research,	Springer	29	1 4145–4158	Yes	4.306

(XII) Participation of faculty in Seminars/Conferences/Workshops/Webinars and Refresher Courses etc. during the period

(a) Total Number of Seminars/Conferences attended by faculty and papers presented

Positions	Attended			Papers presented		
	International	National	Total	International	National	Total
Professors, Associate Professors & Assistant Professors		2	2	7	2	9

(b) International Conferences/ Seminars/ Workshops/Webinars

Name of the Teacher/Faculty	Title of paper presented	Theme of conference/Seminar/Workshop	Name of Host organization	Place	Dates/Duration	Funded by UGC/DST/CSIR/AICTE/University
Anu Gupta	Review of development in the area of agriculture waste management: A Bibliometric Approach	International Conference on Integrated Approaches in Science & Technology for Sustainable Future	<i>J.C. Bose University of Science and Technology, YMCA,</i>	<i>Faridabad</i>	28 th February - 1 st March 2022	University
	Policy perspective of agricultural waste management: a bibliometric analysis	International Conference on Joint Modernistic & Innovative Technology (IC-JMIT 2022)	Seth Jai Parkash Mukand Lal Institute of Engineering & Technology	Radaur	25-26 March 2022	University
	Agricultural waste management: a Policy perspective	International Conference on Business Management and Social Innovations: A Leap towards Aatmnirbhar Bharat	Chaudhary Bansi Lal University, Bhiwani	Bhiwani	August 26-27, 2021	University
Dr.Santosh Bhukal	“Sustainable and Green trends for Heavy Metals Removal from Wastewater using Algal Mediated Nanoparticles”	International Conference on Recent Advances in Green & Sustainable Chemistry	Maharaja Agrasen University,	Solan (H.P.)	22 December 2022	University
	Emerging trends of nano technology for the synthesis of nanoparticles using algal extract and their Environmental applications	Joint Modernistic & Innovative Technology (IC-JMIT 2022)	<i>Seth Jai Parkash Mukand Lal Institute of Engineering & Technology (JMIT)</i>	<i>Radaur, Yamunanagar</i>	25-26 March 2022	University

	Closing the gap: An Eco critical approach towards wastewater management	Two-Day International Conference on Integrated Approaches in Science & Technology for Sustainable Future (IASTSF-2022)	YMCA,	Faridabad	28 th February - 1 st March 2022	DST
	Disturbed Aesthetics of Human Lifestyle: A Study of Negative Impacts of WFH during Covid Crisis	Advancing Management: Innovation, Engagement and Impact in the post COVID era	KIET Group of Institutions	Ghaziabad	6 August 2021	

(c) National Conferences/ Seminars/ Workshops

Name of Teacher/ Faculty	Title of paper presented	Theme of conference/ Seminar	Name of Host organization	Place	Dates/ Duration	Funded by UGC/DST/ CSIR/ AICTE/ University
Anu Gupta	COVID-19 PANDEMIC & BIO-MEDICAL WASTE	National Conference on Social Work Practices and Sustainable Consumption	Chaudhary Bansi Lal University	Bhiwani	October 4-5, 2021	university
Santosh Bhukal	Role of different metal based nanoparticles in plant protection and fertilization (<i>Oryza sativa</i>).	National Conference on Emerging Trends to Heal the Earth and Environment	School of Interdisciplinary and Trans-disciplinary Studies (SOITS)IGNOU	New Delhi	18 Sept. 2021	University

(d) Regional/ State Level Conferences/ Seminars/ Workshops:

Name of Teacher/F aculty	Title of paper presented	Theme of Conference/ Seminar	Name of Host organization	Place	Dates/ Duration	Funded by UGC/DST/ CSIR/ AICTE/ University
Anu Gupta	Participated	Workshop on Aatamnirbhar Haryana aur Rojgar Srijan	GJUS&T	Hisar	6 Sept, 2021	University

Anu Gupta	Participated	FDP on "Instructional Design for Effective Teaching	BML Munjal University	Kapriwa, Haryana	2021-7-5 to 2021-7-9	AICTE
	TOTAL					

(e) Orientation Courses/Refresher courses

(f) National/International Webinars Attended

Name of Teacher/Faculty	Title of Webinar	Host organization	Date

(g) Total number of Oriented Courses attended:

- i) Oriented Courses/Refresher Courses : 0
- ii) Webinars : 2
- iii) Total : 02

(XIII) Association with National and State Level Bodies (Give teacher-wise details)

(h) Total number of Oriented Courses attended:

- iv) Oriented Courses/Refresher Courses : 03
- v) Webinars : 16
- vi) Total : 19

(XIII) Association with National and State Level Bodies (Give teacher-wise details)

I. Any other

(XIV) Detail of Consultancy Project/Work in Department: - NA

Name of Teacher	Title of the project/work	Name of Agency	Total Amount

(XV) Lectures (other than class) delivered (Give teacher wise detail)

Type	Faculty	Topic/ Subject	Institution	Dates
Invited talk delivered in refresher courses				
Extension lectures	Dr.Anu Gupta	Literature Review: Structural and Conceptual Framework and Steps to Conduct Literature Review	Chaudhary Bansi Lal University, Bhiwani	06- 18 September, 2021
	Dr.Mona Sharma	Environmental Social Governance	Chaudhary Bansi Lal University, Bhiwani, Haryana, India	July 30, 2021
Any other				

(XVI) Additional Duties Performed/Positions held in the University (Teacher-wise)

Sr. No.	Name of Teacher	Additional Positions	Duration From To
1	Prof. PAaveen Sharma	Dean Faculty of FBEST	2019-2022
2.	Prof. Asha Gupta	Chairperson, Deptt. of Civil Engg.	2019-Till date
3.	Prof. Rajesh Kumar	Chairperson, Deptt. of ESE	2020-Till date
4.	Prof. Rajesh Kumar	Dean Alumni	2019-2022
5.	Dr. Anu Gupta	Coordinator, GH-II, Girls Hostel	Oct, 2018- Till date
6.	Dr. Mona Sharma	Coordinator, GH-I, Girls Hostel	Oct, 2018- 21.01.22

(XVII) Training/Internship& Placement activity Information of the Department: Nil

Activity (Training/Internship /Placement)	No. of Students placed	No. of Companies in which placed*

*Note:- Please attach a list of companies along with number of students placed and dates of placement.

(XVIII) Detail of Academic Activities/Professional Activities/ Programmes Organized in Department during the year:

i. Seminar /Conference/Refreshers course/Workshop/Training Programme/webinar

Name of the Event	National/ International	Number of Participants	Duration	Dates of the Event
Ozone day celebration	Webinar	70	1 day	16 Sept 2021

ii. Extension lecture: (with resource person & date): Nil

iii. Students tour Nil

Places Visited	Number of Participants	Duration	Dates of the Event
Ladwa Gaushala, Village Ladwa, Hisar	35	1 day	

iv. Industry interaction programs: (with name of company & date): NA

Name of the Event	Name of the Industry	Number of Participants	Duration	Dates of the Event

v. Any other

(XIX) Awards/ Honours received by Faculty (Give teacher-wise details about title of award, awarding agency and date of conferment): - Nil

(XX) Any other important Information/ Achievement of the Department

Signature of the Chairperson