

ANNUAL REPORT(2023-24)
(01.07.2023 TO 30.06.2024)
DEPARTMENT OF COMPUTER SCIENCE & ENGG.

(i) Name : COMPUTER SCIENCE & ENGG.

(ii) Year of Establishment: 1995

(iii)(a) Vision : The vision of the Department is to become a center of excellence for education in Computer Science, Engineering and Applications. We visualize ourselves as an agency to nurture young minds into leaders of tomorrow in the field of higher education, research and development, and corporate world. We aim to produce creators and innovators who will work towards the overall well-being of the society.

(b) Mission :

- To impart state-of-the-art knowledge in Computer Science and Engineering, Information Technology and Computer Applications.
- To ensure our students graduate with a sound theoretical basis and wide-ranging practical experience.
- To foster linkages between the Department and public and private sectors, traversing research establishments as well as Information Technology industry.
- To promote ethical research of high quality.
- To adopt the best pedagogical methods in order to maximize knowledge transfer.
- To inculcate a culture of free and open discussions in the Department.
- To engage students in learning, understanding and applying novel ideas.
- To infuse scientific temper, professionalism, enthusiasm and team spirit.
- To inspire a zest into students for lifelong learning.
- To promote democratic values, an environment of equal opportunity for everyone irrespective of gender, religion and cast.
- To attract and retain the talented and dedicated teaching and supporting staff, and students.

(c) Objectives: To facilitate and promote studies and research in emerging areas of Information Technology and

Computer Engineering to achieve excellence in these fields.

IV) Programme (s) Offered in the Deptt:

Course	Sanctioned intake	Present Strength (Total)
Ph. D	As per availability	105
P.G (MCA &M.Tech.)	MCA-60,M.Tech.CSE)-30	119+30 = 149
U.G. (B.Tech. CSE)	B.Tech. CSE-120+24*	145+147+149+156 = 597
U.G. (B Tech IT)	B Tech IT-60+12*	78+78+79+79 = 314
U.G. (B Tech AI & ML)	B Tech AI & ML -60+12*	70+77+69 = 216

*LEET

(V) Faculty detail

(Attach a list of the Faculty alongwith their qualifications and Experiences)

	Sanctioned	Direct filled	Under CAS	Remarks if any
Professor	06	00	10	04 Associate Professor promoted to Professor Under CAS and 06 Assistant Professor promoted to Associate Professor and Professor Under CAS
Associate Professor	12	04	02	04 Associate Professor already promoted to Professor Under CAS and 02 Assistant Professor promoted to Associate Professor under CAS
Assistant Professor	24	18 +1 ^	---	----

^On Deputation From CDLSIET

Regular Faculty Details

Sr. No.	Name (s) of the Teaching Faculty	Designation	Qualification	Experience (in years)	Aadhar No.	PAN No.	H. Index (Scopus Based)
1.	Prof. Dharminder Kumar (Retired on 30.09.2023)	Professor	Ph.D.	32	239089902125	ABFPK5190H	12
2.	Prof. Saroj (Retired on 31.12.2023)	Professor	Ph.D.	25.5	931206527207	ADCPS6744C	9
3.	Prof. Yogesh Chaba	Professor	Ph.D	27	236069072598	ABXPC4719N	8
4.	Prof. Pradeep Bhatia (Retired on 31.05.2024)	Professor	Ph.D	30	679569339054	ABSPK0744J	9

5.	Prof. Rishi Pal Singh	Professor	Ph.D	24	739273315871	AMOPS6526M	5
6.	Prof. Om Prakash Sangwan	Professor/ Chairman	Ph.D	19	532941773117	BAFPS9422J	10
7.	Prof. Sanjeev Kumar	Professor	Ph.D	19	464367608598	AMEDK8131G	1
8.	Prof. Jyoti	Professor	Ph.D	18	643446335138	AASPV3228R	5
9.	Dr. Sunila	Professor	Ph.D	17	627133340377	AKIPG3723G	3
10.	Prof. Jaswinder Singh	Professor	Ph.D	19	626467081218	BDJPS4624P	1
11.	Dr. Ritu	Associate Professor	Ph.D	17	894084915697	ALMPM1076F	1
12.	Dr. Sunil Nandal	Associate Professor	Ph.D	17	247902660918	AEJPN7499F	2
13.	Dr. Jai Bhagwan	Assistant Professor	Ph.D	11	358940769992	BIRPB5097A	1
14.	Dr. Narender	Assistant Professor	Ph.D	15	698546657265	BYLPK8244A	2
15.	Dr. Manoj	Assistant Professor	Ph.D	11	419867828438	CADPK3098R	1
16.	Dr. Abhishek Kajal	Assistant Professor	Ph.D	14	471250008111	AYYPK8183G	5
17.	Dr. Sakshi Dhingra	Assistant Professor	Ph.D	10	453298837928	CAYPD8849J	2
18.	Dr. Anju	Assistant Professor	Ph.D	10	273437329627	APUPA9671A	5
19.	Dr. Sunita	Assistant Professor	Ph.D	18	676448974943	ADVPG4092R	3
20.	Dr. Deepak Nandal	Assistant Professor	Ph.D	11	405004378020	ANNPN6648K	3
21.	Dr. Sunil Kumar	Assistant Professor	Ph.D	10	496138060190	CELPK2181R	
22.	Dr. Krishan Kumar Ranga	Assistant Professor	Ph.D	24	506587087516	AGRPR7759J	

23.	Dr. Seema (On Deputation)	Assistant Professor	Ph.D	19	921408831590	ABTPY1835B	
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(VI) Office/Tech. staff detail:

Title of Position	Sanctioned Strength	In Position Strength
System Manager	1	NIL
Programmer	1	NIL
Supdt.	1	1
Dy.Supdt.	2	NIL
Tech Asst – I	2	2
Sr. Hardware Technician	-	NIL
Asst	5	2
Sr. Scale Stenographer	1	NIL
JLA	2	NIL
Lab Tech	3	1+1*
Steno Typist	3	NIL
Clerk cum JDEO	5	2+1*
Lab-Attendant	8	6
Peon	4	2*

*on contract through contractor/HKRNL

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

<i>Programme</i>	<i>Sanctioned Intake</i>	<i>Students admitted 1st Year</i>	<i>Students Present in Final Year</i>
M.Tech (CSE)	30	13	14
MCA	60	59	60

(b) Students detail in respect of B.Tech,B.Pharm. and B.P.Th. Programmes**B.Tech (CSE)**

1st year		2nd year		3rd year	4th year
<i>Sanctioned Intake</i>	<i>Students admitted</i>	<i>Sanctioned intake through LEET</i>	<i>Students Present</i>	<i>Students Present</i>	<i>Students Present</i>
120	145	120 +12	127+20 = 147	149	156

B.Tech (I.T.)

1 st year		2 nd year		3 rd year	4 th year
<i>Sanctioned Intake</i>	<i>Students admitted</i>	<i>Sanctioned intake through LEET</i>	<i>Students Present</i>	<i>Students Present</i>	<i>Students Present</i>
60	71	60 + 6 =	71 + 8 =79	78	78

B.Tech (AI & ML)

1 st year		2 nd year		3 rd year	4 th year
<i>Sanctioned Intake</i>	<i>Students admitted</i>	<i>Sanctioned intake through LEET</i>	<i>Students Present</i>	<i>Students Present</i>	<i>Students Present</i>
60	70	60 + 6 = 66	66 + 11 = 77	69	----

(c) Detail of Foreign Students, if any, admitted in the Department:

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

(VIII) Research Scholars: Attach a separate list (Reg. No, Name, Name of Supervisor/Co-Supervisor)

Total no. of Ph.D. students	Registered during the year	Thesis submitted during the year	Thesis Awarded During the year
105	27	02	15

List of Pre. Ph.D 2023-24 Students

Sr. No.	University Roll No.	Name of Candidate	Father's Name	Guide/Supervisor Name
1	230010082001	Chain Singh	Lakhmi Chand	Prof. Jaswinder Singh
2	230010082002	Ruchi Yadav	Shish Ram Yadav	Dr. Manoj
3	230010082003	Sunita Mittal	Suraj Bhan	Prof. Sanjeev Kumar
4	230010082004	Monika Singla	Mahender Singh	Dr. Krishan Ranga
5	230010092001	Vimaxi Gera	Gobind Lal	Prof. O.P.Sangwan/ Prof. P.K.Bhatia
6	230010092002	Rajinder Kumar	Makhan Ram	Prof. Sanjeev Kumar
7	230010092003	Annu	Rajbir Singh	Prof. O.P.Sangwan
8	230010092004	Seema Rani Gadai	Anand Prakash	Dr. Manoj
9	230010092005	Rajat	Azad Singh	Dr. Narender Kumar
10	230010092006	Prem Kumar	Balwant	Dr. Narender Kumar
11	230010092007	Jyoti	Bharat Singh	Dr. Sunil Nandal
12	230010092008	Nisha Choudhary	Kashi Ram	Prof. O.P.Sangwan
13	230010092009	Shaina	Mandeep	Dr. Krishan Ranga
14	230010092010	Ravika Rani	Naresh Kumar	Dr. Manoj
15	230010092011	Aakash	Narinder Goyal	Dr. Narender Kumar
16	230010092012	Rinku	Ombir	Prof. Yogesh Chaba
17	230010092013	Mohit Kumar	Rajbir Singh	Dr. Krishan Ranga
18	230010092014	Priyanka	Ramesh Kumar	Dr. Manoj
19	230010092015	Annu Bala	Shamsher Singh	Dr. Sunil Nandal
20	230010092016	Urmila	Subh Ram	Prof. Jaswinder Singh
21	230010092017	Kajal	Surender	Dr. Krishan Ranga
22	230010091001	Priyanka Poonia	Dhanpat SinghPoonia	Prof. Rishi Pal Singh
23	230010091002	Pooja Rani	Kawal Krishan	Dr. Sakshi Dhingra
24	230010091003	Nisha Rani	Mahender Kumar	Dr. Sunil Verma
25	230010091004	Krity Duhan	Rajender Singh	Dr. Abhishek Kajal
26	230010091005	Samiksha Mathur	Randhir Singh	Prof. Dharmender Kumar
27	230010091006	Sharmila Devi	Umrvav Singh	Dr. Sunil Verma

(IX) Sponsored Research/ Consultancy Projects:**(a.)**

Total no. of Projects in Progress during the academic current year	Total No. of Projects awarded during the academic current year	Total No. of Projects Completed during the academic current year
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(b.)

Title of the Project	Name of the Investigator(s)	Status: Completed/In Progress	Nature: Research/ Consultancy	Month & Year of award
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X) Number of Publications of Faculty (in Total)

Books/ Book Chapter	Research papers		Research paper		Other Articles
	SCI/Scopus	UGC Care	Refereed	Non refereed	
Book- 02 Chapter-09	31		31	--	--

(XI) Faculty wise detail of publication during the academic year:**a) Books/Book Chapters/ Monograph etc.**

Authors	Title	Year of publication	Type of books(Text/Reference/Report)	Publishers	DOI/URL
Rishi Pal Singh	Energy Optimization of Electronic Vehicle Using Blockchain Method	Mar, 2024	Book Chapter	Springer	DOI:10.1007/978-981-99-9037-5_7
Rishi Pal Singh	Analysis of Various Mac Protocols in 802.11 AX	Feb, 2024	Book Chapter	Springer	DOI:10.1007/978-981-99-7862-5_12
Jyoti Vashishtha	A Comprehensive Review: Sentiment Analysis for Indian Local Languages , 2024, 893, pp. 1-13	2024	Book Chapter	Springer	https://doi.org/10.1007/978-981-99-9518-9_1
Abhishek Kajal	Accuracy Enhancement for Intrusion Detection Systems Using LSTM Approach	2023	Book Chapter	Springer Nature, Singapore	doi.org/10.1007/978-981-99-9811-1_40
Abhishek Kajal	Twitter Sentiment Analysis Using LSTM-Dense-Dropout Hybrid Deep Learning Approach	2024	Book Chapter	Springer Nature, Singapore	doi.org/10.1007/978-981-99-6547-2_48
Abhishek Kajal	Exploring the Role of Deep Learning and Explainable AI in Android Malware Detection: A Systematic Review	2024	Book Chapter	Springer Nature, Singapore	https://link.springer.com/book/9789819795062

Abhishek kajal	A Review of Deep Learning based Intrusion Detection Systems	2023	Book Chapter	IEEE Xplore	doi: 10.1109/ICCCIS60361.2023.10425595
Sunil Kumar	Deep Dive into Deep Learning	2023	Book	Iterative International Publishers	
Sunil Kumar	Computer Operator and Programming Assistant	2023	Book	Published by Satya Prakashan, New Delhi	
Sunil Kumar	Biometric Systems Security and Privacy Issues	2024	Book Chapter	CRC PRESS, Taylor & Francis Group	https://doi.org/10.1201/9781032614663 .
Dharminder Kumar, Sakshi Dhingra	Hybrid Soft Computing for CBIR System by Integration of Edge Detection and Compression Mechanism	2024	Book Chapter	Springer, Singapore	https://doi.org/10.1007/978-981-97-1682-1_29

b) Research Papers/ Articles in Journals

Sr. No.	Authors	Year	Title of paper	Name of journal	Publishers	Vol.& No.	Pages	SCI/Scopus	DOI
1.	Dharminder Kumar	2024	An Efficient Load Balancing HBLBACO Approach Using Hybrid BAT and LBACO Algorithm in Cloud Environment	International Journal of Computer Networks and Applications (IJCNA)	EverScience Publications	Volume 11 No. 5 (2024)	pp. 594-606	Scopus	10.22247/ijcna/2024/38.
2.	Saroj Ratnoo	2023	Efficient Deep Pre-trained Sentence Embedding Model for Similarity Search	International Journal of Computer Information Systems and Industrial Management Applications	MIR Labs	Volume 15 (2023)	pp. 605-615	Scopus	https://www.mirlabs.org/ijcisim/regular_papers_2023/Paper54.pdf
3.	Prof. Yogesh Chaba	2024	Analysis and Enhancement of Prediction of Cardiovascular Disease Diagnosis using Machine Learning Models SVM, SGD, and XGBoost	International Journal of Advanced Computer Science and Applications		15(4)	469-479	Scopus	
4.	Prof. Yogesh Chaba	2024	Sentimental Analysis using a Multinomial LR-LSTN Model	International Journal of Intelligent Systems and Applications in Engineering		12(21)	697-705	Scopus	
5.	Prof. Yogesh Chaba	2024	An Enhance CNN Model for Brain Tumor Detection from MRI Images	Journal of Electrical Systems		29(3)	pp. 1072-1081	Scopus	

6.	Rishi Pal Singh,	Jan, 2024	Path loss assessment of electromagnetic signal on air-sea and air-soil boundary in Sensor Networks	International Journal of Systems Assurance Engineering and Management	Springer	15	2238-2247	Scopus and ESCI	DOI:10.1007/s13198-023-02239-x
7.	Rishi Pal Singh	Sep, 2023	A review on evolving domains of Internet of Things: Architecture, applications, and technical challenges	International Journal of Communication Systems	Wiley	36 & 18	1-25	Scopus, SCIE and Web of Science	DOI:10.1002/dac.5613
8.	Prof. O.P. Sangwan	2024	Hybrid optimization algorithm with the combination of PSO and Genetic Algorithm for Task scheduling in Cloud Computing	International Journal of Science, Mathematics and Technology Learning		Volum e-32 No. 2			
9.	Prof. O.P.Sangwan	2023	Classifying Weather Images using Deep Neural Networks for Large Scale Datasets	International Journal of Advanced Computer Science and Applications	Inderscience Publishers	(IEL)14(1), pp:1-14		Web of Science, Scopus indexed	DOI: https://doi.org/10.14569/IJACSA.2023.0140136
10.	Prof. O.P.Sangwan	2023	Quality of Service Prediction Model in Cloud Computing using Adaptive Dynamic Programming Parameter Tuner	International Journal of Grid and Utility Computing 14(1)		1741-847X		Scopus and ESCI Indexed	DOI: https://doi.org/10.1504/IJGUC.2023.129699
11.	Jyoti Vashishtha	2023	Efficient Deep Pre-trained Sentence Embedding Model for Similarity Search	International Journal of Computer Information Systems and Industrial Management Applications	MIR Labs	Volum e 15 (2023)	pp. 605-615	Scopus	https://www.mirlabs.org/ijcisim/regular_papers_2023/Paper54.pdf

12.	Jaswinder Singh	March, 2024	Extracting features of tomato viral leaf diseases using image processing techniques	IAES International Journal of Artificial Intelligence(IJ-AI)	IAES in collaboration with Intelektual Pustaka Media Utama (IPMU)	Vol. 13, No.1	925-934	Scopus	https://ijai.iaescore.com/index.php/IJAI/article/view/24035/13895
13.	Jaswinder Singh	June 2024	A genetic algorithm - based feature selection approach for diabetes prediction	IAES International Journal of Artificial Intelligence(IJ-AI)	IAES in collaboration with Intelektual Pustaka Media Utama (IPMU)	Vol. 13, No.2	1489-1498	Scopus	https://ijai.iaescore.com/index.php/IJAI/article/view/23969/13951
14.	Jaswinder Singh	June 2024	Improving Opinion Mining Accuracy with Dragonfly Algorithm - Based Hybrid Classification	International Journal of Intelligent Systems and Applications in Engineering	Auricle Global Society of Education and Research	Vol. 12, No.4	779-789	Scopus	https://ijisae.org/index.php/IJISAE/article/view/6293
15.	Ritu Makani	Mar. 2024	Implementation of Parallel Proof of Work Algorithm for Blockchain Using SimBlock Simulator	International Journal of Intelligent Systems and Applications in Engineering	n/d	vol. 12, no. 3	3917-3927	Scopus	https://ijisae.org/index.php/IJISAE/article/view/6079 .
16.	Ritu Makani	Oct. 2023	Enhancing Transaction Speed of Blockchain System via Parallel Proof of Work	International journal on recent and innovation trends in computing and communication	Auricle Global Society of Education and Research	vol. 11, no. 10	2595-2601	Scopus	https://doi.org/10.17762/ijritcc.v11i10.10004

17.	Ritu Makani	2023	Secure and Compatible Integration of Cloud-Based ERP Solution: A Review.	International Journal of Intelligent Systems and Applications in Engineering	n/d	11(9s)	695–707	Scopus	https://ijise.org/index.php/IJISAE/article/view/3218/1805
18.	Ritu Makani	2024	Fuzzy inference based feature selection and optimized deep learning for Advanced Persistent Threat attack detection	International Journal of Adaptive Control Signal Processing	John Wiley and Sons Ltd	38 (2)	604–620	SCIE-Indexed	https://doi.org/10.1002/acs.3717
19.	Ritu Makani	Nov. 2023	Secure and Compatible Integration of Cloud-Based ERP Solution	Journal of Army Engineering University of PLA	--	23(1)	183-189	Scopus	https://www.jaeu-pla.org/vol23-issue1
20.	Ritu Makani	2024	Advanced Persistent Threat Performance Analysis Based on Machine Learning Models	International Journal of Intelligent Systems and Applications in Engineering	n/d	12(2)	741-757	Scopus	https://ijise.org/index.php/IJISAE/article/view/4317
21.	Ritu Makani	Nov. 2023	Security in Enterprise Resource Planning solution.	International Journal of Intelligent Systems and Applications in Engineering	n/d	12(4)	702-709	Scopus	https://ijise.org/index.php/IJISAE/article/view/3855
22.	Abhishek Kajal	2024	Enhancing AI Model Reliability and Responsiveness in Image Processing: A Comprehensive Evaluation of Performance Methodologies	International Journal of Intelligent Systems and Applications in Engineering	Auricle Global Society of Education and Research	Vol. 12 and Issue 15	489 - 497	SCOPUS Indexed	https://ijise.org/index.php/IJISAE/article/view/4773

23.	Deepak Nandal	2024	Inception-v3 vs. DenseNet for Automated Detection of Diabetic Retinopathy	International Journal Of Intelligent Systems And Applications In Engineering	Auricle Global Society of Education and Research	12(21s)	1779-1794	SCOPUS (Elsevier)	https://ijise.org/index.php/IJISAE/article/view/5749
24.	DeepakNandal	2024	Synthesis strategies of smart 3D nanoarchitectures and their applications in energy storage and conversion	Energy Storage	Wiley	Vol 6 (1)	1-29	SCI	DOI: 10.1002/est.2559
25.	Sunil Kumar	2024	An optimized neural network with AdaHessian for crypto-jacking attack prediction for Securing Crypto Exchange Operations of MEC applications	Journal of Cloud Computing	SpringerOpen	Volume 13, Article no. 63	19	SCIE	https://doi.org/10.1186/s13677-024-00630-y .
26.	Anju Sangwan	Jan, 2024	A two-staged SEM: artificial neural network approach for understanding and predicting the factors of students' satisfaction with emergency remote teaching	Educational Technology Research and Development	Springer	72 & 3	1249-1286	Scopus and SSCI	DOI:10.1007/s11423-023-10335-9
27.	Anju Sangwan	Sep, 2023	A review on evolving domains of Internet of Things: Architecture, applications, and technical challenges	International Journal of Communication Systems	Wiley	36 & 18	1-25	Scopus, SCIE and Web of Science	DOI:10.1002/dac.5613

28.	Sakshi Dhingra	2024	An Efficient Load Balancing HLBACO Approach Using Hybrid BAT and LBACO Algorithm in Cloud Environment	International Journal of Computer Networks and Applications (IJCNA)	EverScience Publications	Volume 11 No. 5 (2024)	pp. 594-606	Scopus	10.22247/ijcna/2024/38.
29.	Dr. Manoj	Sept 2023	PV-based DC-DC buck-boost converter for LED driver	e-Prime-Advances in Electrical Engineering, Electronics and Energy				SCI Indexed	
30.	Dr. Manoj	April 2024	Comprehensive evaluation and performance analysis of machine learning in heart disease prediction	Scientific Reports		14, no. 1	pp 7819	SCI Indexed	
31.	Dr. Seema Rani	2024	Sentiment Analysis using a Multinomial LR-LSTM Model"	International Journal of Intelligent System and Applications in Engineering		12(21s)2024	697-705	SCOPUS	
32.	Dr. Seema Rani	2024	An Enhance Model CNN Model for Brain Tumor Detection from MRI Images	Journal of Electrical System		20-3s(2024)	1072-1081	SCOPUS	
33.	Anupma Sangwan	Jan, 2024	A two-staged SEM: artificial neural network approach for understanding and predicting the factors of students' satisfaction with emergency remote teaching	Educational Technology Research and Development	Springer	72 & 3	1249-1286	Scopus and SSCI	DOI:10.1007/s11423-023-10335-9

(XII) Participation of faculty in Seminars/Conferences/Workshops 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
Professor	8	--	--	8	--	--
Associate Professor	--	--	--	--	--	--
Assistant Professor	13	--	--	13	--	--

(b)International Conferences/ Seminars/ Workshops:

Sr. No.	Name of the Teacher/ Faculty	Title of paper presented	Theme of conference/ Seminar	Name of Host organization	Place	Dates	DOI	ISBN
1.	Saroj Ratnoo	Transformer Based Unsupervised Learning Approach for Imbalanced Text Sentiment Analysis of E-Commerce Reviews	International Conference on Machine Learning and Data Engineering (ICMLDE 2023)	UPES, Dehradun, India	Dehradun	23 - 24 November 2023	https://doi.org/10.1016/j.procs.2024.04.220	Online ISSN: 1877-0509 (Procedia Computer Science, Elsevier)
2.	Prof. O.P. Sangwan	Analysis and Design of Software Effort Estimation Model Using Machine Learning Techniques: A Systematic Literature Review	4th International Conference on Information Technology (InCITe) 2024: Adaptive Intelligence: Evolve Your World	Amity School of Engineering & Technology, Amity University Uttar Pradesh	U.P.	6-7 March 2024		
3.	Prof. O.P. Sangwan	Metaheuristics Techniques Optimized LSTM Network for Improved Weather Prediction	IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovations (ATMSI)	ATMSI		2024		
4.	Prof. O.P. Sangwan	A Critical Review on Energy Efficient Scheduling Techniques in Cloud Computing	4th international Scientific Conference of alkafeel University, AIP Conference Proceeding		Alkafeel University	2023/12/22		

5.	Jyoti Vashishtha	Transformer Based Unsupervised Learning Approach for Imbalanced Text Sentiment Analysis of E-Commerce Reviews	International Conference on Machine Learning and Data Engineering (ICMLDE 2023)	UPES, Dehradun, India	Dehradun	23 - 24 November 2023	https://doi.org/10.1016/j.procs.2024.04.220	Online ISSN: 1877-0509 (Procedia Computer Science, Elsevier)
6.	Jaswinder Singh	Mango Maturity Classification Based on LAB Color Features using Machine Learning	International Conference on Artificial Intelligence, Computing, IoT and Data Analytics (AICTA-2023)	Punjab Engineering College	Chandigarh	December, 18-20, 2023	--	--
7.	Jaswinder Singh	Extensive Study of Disease Prediction Model using Machine Learning	Ist International Conference on Artificial Intelligence, Advanced Materials and Mechatronics Systems (AIAMMS-2023)	JECRC University	Jaipur	November, 3-4, 2023	--	--
8.	Jaswinder Singh	A Primer on Sarcasm Detection	Ist International Conference on Artificial Intelligence, Advanced Materials and Mechatronics Systems (AIAMMS-2023)	JECRC University	Jaipur	November, 3-4, 2023	--	--
9.	Abhishek Kajal	A Review of Deep Learning based Intrusion Detection Systems	4th International Conference on Computing, Communication and Intelligent Systems (Sponsored by IEEE)	Department of CSE, Sharda University, Greater Noida, UP	Online	03 - 04 Nov, 2023	doi: 10.1109/ICCCIS60361.2023.10425595.	979-8-3503-0611-8

10	Dr. Manoj	Exploring 5G Architecture, Technologies, and Mobility Challenges: A Path to SDN-Based Future	International Conference on Advanced Computing & Communication Technologies	IEEE	Banur, India	Dec. 23 2023 to Dec. 24 2023	10.1109/ICACCTec h61146.2 023.0009 5	979-8-3503-8088-0
11	Dr Manoj	Investigating Impact of 5G Mobility Management Over Handover	International Conference on Advanced Computing & Communication Technologies	IEEE	Banur, India	Dec. 23 2023 to Dec. 24 2023	10.1109/ICACCTec h61146.2 023.0009 6	979-8-3503-8088-0
12	Dr. ANJU	Comparison of Recent Energy Efficient Protocols Used in Smart Agriculture	International Conference on Integrated Circuits, Communication, and Computing Systems (ICIC3S)	School of Electronics, IIT UNA, Himachal Pradesh	IIT UNA, Himachal Pradesh	8-9 June, 2024	DOI:10.1109/ICIC3S61846.2024.10603013	ISBN: 9798350364088
13	Dr. ANJU	Study of different approaches used to detect and heal coverage holes: a review	International Conference on Research and Innovation for Sustainable Development (ICRISD-2024)	UIET in collaboration with Centre for Research and Innovation India & Akhil Bhartiya RashtriyaMahasangh, MDU Rohtak(Unit)	MDU, Rohtak	04-05 May, 2024		
14	Dr Deepak Nandal	Exploring 5G Architecture, Technologies, and Mobility Challenges: A Path to SDN-Based Future	International Conference on Advanced Computing & Communication Technologies	IEEE	Banur, India	Dec. 23 2023 to Dec. 24 2023	10.1109/ICACCTec h61146.2 023.0009 5	979-8-3503-8088-0

15	Dr Deepak Nandal	Investigating Impact of 5G Mobility Management Over Handover	International Conference on Advanced Computing & Communication Technologies	IEEE	Banur, India	Dec. 23 2023 to Dec. 24 2023	10.1109/ICACCTec h61146.2 023.0009 6	979-8-3503-8088-0
16	Dr. Deepak Nandal	Exploration And Analysis Of Next Generation Firewalls In Information Technology For Enhanced Network Security	2nd International Conference of the Indian Science Congress Association, Rohtak Chapter on "Science and Technology for Sustainable Future (ICSTSF-2024)	University Institute Of Engineering And Technology Maharshi Dayanand University Rohtak	Rohtak	7-8 February, 2024	--	--
17	Dr. Deepak Nandal	Evolutionary Trends In Firewall Technologies: A Comprehensive Review	2nd International Conference of the Indian Science Congress Association, Rohtak Chapter on "Science and Technology for Sustainable Future (ICSTSF-2024)	University Institute Of Engineering And Technology Maharshi Dayanand University Rohtak	Rohtak	7-8 February, 2024	--	--
18	Seema Rani	Development of Powered Chatbots for Natural Language in Metaverse using Deep Learning with Optimization Techniques	IEEE International Conference on Augmented in Intelligence and Sustainable System (ICAISS-2023)	Care College ofEngineering, Trichy.	Trichy	August 23-25, 2023		

19	Seema Rani	An intensive review of Brain Tumor Detection from MR Images Using machine learning and Deep Learning Networks	International Conference on Recent Trends in Machine Learning and Image Processing (MLIP - 2023)	Hinweis Research		December 22-23, 2023.		
20	Seema Rani,	Early software Bug Prediction: A Literature Review and Current Trends	Second International Conference of Advances in information, Telecommunication and Computing, AITC-2024.	HinweisResearch				
21	Seema Rani,	Covid 19 X-Ray Image Classification based on Convolutional Neural Network	Second International Conference of Advances in information, Telecommunication and Computing, AITC-2024.	HinweisResearch		April 27-28, 2024.		

(c) National Conferences/ Seminars/ Workshops:

Name of Teacher/ Faculty	Title of paper presented	Theme of conference/ Seminar	Name of Host organization	Place	Dates	Funded by UGC/DST CSIR/AICTE /Univ./etc.
Dr. Sunil Kumar	Generative Adversarial Neural Network and Adversarial Auto Encoders for Effective IP	One-week Collaborative Capacity Building Program	Thakur College of Engineering & Technology and ThandomalShaani Engineering College, Sponsored by IEEE Bombay Section	Bombay	During 24th June to 29th June 2024	
Dr. Sunil Kumar	Essential Documents Formatting Skills	3-hour Workshop	Department of CSE, GJUS&T, Hisar	Hisar	26th November 2023	
Dr. Sunil Kumar	Cyber Security and Cyber Crime	Half-Day workshop	Department of CSE, GJUS&T, Hisar	Hisar	21st November 2023	
Dr. Sunil Kumar	How to Write A Research Project Proposal	Online	Android Connectz Pvt Ltd	--	24th September 2023	
Dr. Sunil Kumar	Smart GJUST Hackathon 2023	Offline	CSE, GJUST		22nd September 2023	
Dr. Sunil Kumar	Python Programming & Data Analytics	Online	CSE, GJUST	Hisar	26th -10th September 2023	
Dr. K.K.Ranga	Python Programming & Data Analytics	Online	CSE, GJUST	Hisar	26th -10th September 2023	

Dr. Manoj	Cyber Security and Cyber Crime	Half-Day workshop	Department of CSE, GJUS&T, Hisar	Hisar	21st November 2023	
Dr. Manoj	Applications of Machine Learning Techniques in Sustainable Technologies (AMLST-2024)	One Week Online Mode Short Term Course and Faculty Development Programme	Department of Computer Science and Engineering, and Electrical Engineering, NIT Rourkela	Rourkela	24th January 2024 to 28th January 2024	

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

Name of Faculty	Title of paper presented	Theme of Conference/ Seminar	Name of Host organization	Place	Dates/ Duration	Funded by UGC/DST CSIR/AICTE /Univ./etc.

(e)Refresher Courses/ Orientation Courses:

Sr. No	Name of Teacher/ Faculty	Title of Refresher Course	Host organization	Dept.	University	Place	Date
1.	Dr. Narender Kumar	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
2.	Dr Deepak Nandal	Artificial Intelligence And Data Analytics	Dept of AIDS, GJUS&T, Hisar	Department Of Artificial Intelligence And Data Science	Guru Jambheshwar University, Hisar	Hisar	18th March-23rd March 2024
3.	Dr. Sunita	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
4.	Dr. Jai Bhagwan	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
5.	Dr. Sakshi	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
6.	Dr. K.K. Ranga	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
7.	Dr. K.K. Ranga	NEP Orientation and Sensitization Program	Two-Weeks Online Mode	Malaviya Mission Teacher Training Centre	Malaviya Mission Teacher Training Centre at Indian Institute of Design and Manufacturing.	Chennai	01.12.2023 to 12.12.2023

8.	Dr. K.K. Ranga	FDP on "Data Science using R"	One Week NITTTR, Sec-26, Chandigarh	Computer Science & Engineering Department,	AICTE Recognized Faculty Development Program	NITTTR, Sec-26, Chandigarh	17.07.2023 to 21.07.2023
9.	Dr. Anju	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
10.	Dr. Manoj	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
11.	Dr. Seema	Emerging Trends in Computational Intelligence	GJUST, Hisar	Dept. of CSE	GJUST, Hisar	Hisar	15-20 Jan, 2024
12.	Dr. Seema	Artificial Intelligence And Data Analytics	Dept of AIDS, GJUST, Hisar	Department Of Artificial Intelligence And Data Science	Guru Jambheshwar University, Hisar	Hisar	18th March-23rd March 2024

(f) National/International Webinars Attended

Sr. No.	Name of Teacher/Faculty	Title of webinar	Name of Host organization	Dates
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(g) Total number of Refresher/ Orientation Course/Webinar attended:

- i) Refresher Course :12
 ii) Orientation Course: --
 iii) Webinar :--
 iv) Total :12

(XIII) Association with National and State Level Bodies

(Give Faculty-wise details):

i) Membership of Professional Bodies:

Prof. Dharminder Kumar	<ul style="list-style-type: none"> Life member of Computer Society of India Member, IAENG (ID. No. 111174) Member, SPSTI (ID. No. LM1034)
Prof. Pradeep Kr. Bhatia	<ul style="list-style-type: none"> IMRF Institution of Higher Education & Research, India, Govt of A.P.

Dr. O.P. Sangwan	<ul style="list-style-type: none"> • Life Member, Computer Society of India, India. (Membership No. 01083699) • Member, IACSIT (International Association of Computer Science and Information Technology, USA (Membership No. 80331424) • Member, Computer Science Teacher Association, New York, USA (Membership No. 4711935) • Member, International Association of Engineers (IAENG), Hong Kong (Membership No. 123697) • Member, IACSIT (International Association of Computer Science and Information Technology, USA (Membership No. 80331424) • Reviewer, Internal Journal of Expert Systems with Applications or its Open Access Mirror, Elsevier. • Reviewer, Advances in Science, Technology and Engineering Systems Journal (ASTES), UK and United States. • Reviewer, Journal of King Saud University - Computer and Information Sciences, Elsevier. • Reviewer, Computer Methods and Programs in Biomedicine, Elsevier. • Reviewer, SN Applied Science (SNAS), Springer Nature.
Jaswinder Singh	International Association of Engineers
Amandeep	International Association of Engineers
Mr. Manoj Yadav	<ul style="list-style-type: none"> • (AMIE) Associate members of the Institution of Engineers(India) (Membership No AM1753781)
Narender Kumar	<ul style="list-style-type: none"> • ISTE Member
Abhishek Kajal	<ul style="list-style-type: none"> • CSI
Sunil Kumar	<ul style="list-style-type: none"> • Working as SPOC for Smart India Hackathon event since 2017 to 2022,Guru Jambheshwar University of Science& Technology.
Krishan Kumar	<ul style="list-style-type: none"> • The Institute of Engineering (India), [IEI] • Indian Society for Telecommunication Engineers [ISTE]
SEEMA RANI	<ol style="list-style-type: none"> 1. Life Member of Indian Red Cross Society 2. Membership of International Association of Engineers (IAENG) 3. Life Membership of Indian Society for Technical Education (ISTE) 4. Member of Internet Society 5. Membership of international Computer Science & Engineering Society (ICSES) 6. Membership of Science and Engineering Institute (SCIEI) 7. Membership of IFERP
AnupmaSangwan	IAENG

ii) Member of Expert Committees:

Prof. Dharminder Kumar	NIELIT, NBA, NBA-NIRF, DCRUST, YMCA UST, UOU, BOG-HSTES.
Prof. Saroj	<ul style="list-style-type: none"> • Member of DRC, BOS and Faculty of Engineering • Member of state executive committee

Prof Pradeep Kumar Bhatia	<ul style="list-style-type: none"> • J C Bose University Science and Technology, Faridabad
Prof. Om Parkash Sangwan	<ul style="list-style-type: none"> • Appointed as Expert (5259) for the Accreditation of A/B/C/O Level Courses by National Institute of Electronic and Information Technology, Delhi. (An Autonomous body of Department of Electronics and Information Technology, Ministry of Communications & Information Technology), Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi-110003. • Appointed as Proctor for the conduct of Student Learning Assessment (SLA) TEQIP-III (No. TEQIP/GJUST/2019/2089-90 dated 05.03.2019). • Expert Member in Inspection committee for inspection of study Centre of Distance Education, GJUST, Hisar, (No.DE-3/2018/82 dt. 29.10.2018). • Member, Board of Studies & Research in Computer Science & Engineering, Member Departmental Research Committee (DRC). • Member, Screening Committee, for Verification of API Score and Screening of the Application for the grant of Higher Grade under CAS, Department of CSE, GJUST, Hisar.
Dr. Jaswinder Singh	Member of Board of Studies and Research of CSE Department, GJUST, Hisar
Dr. Amandeep	Member of Board of Studies and Research of CSE Department, GJUST, Hisar
Dr. Krishan Kumar Ranga	Training Placement Coordinator of CSE Department, GJUST, Hisar
Dr. SEEMA RANI	<ul style="list-style-type: none"> • Member of Committee for Framing Course objectives for BCA Programme.
Dr. Sunil Kumar	<ul style="list-style-type: none"> • IQAC Coordinator In CSE

iii) Member of Academic Bodies of other institutions:

Prof. Dharminder Kumar	<ul style="list-style-type: none"> • AICTE for Faculty of Engineering, MRU, Faridabad • AICTE for Govt. Polytechnic, Ambala City • Member, RDC, DAVV, Indore • Member, AAA Committee, Department of ICT, CBLU, Bhiwani. • Member, UGBOS, CBLU, Bhiwani. • Member, IQAC, CBLU, Bhiwani. • Member, IQAC, Sharda University, G. Noida. • Member, DRC, Chitkara University, Pb.
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	<ul style="list-style-type: none"> • Member, Governing Body, Bharati Vidyapeeth's College of Engineering, New Delhi. • Editor-in-Chief, International Journal of Artificial Intelligence and Knowledge Discovery.
Prof. Pradeep Kr. Bhatia	<ul style="list-style-type: none"> • UGBOS, J C Bose University Science and Technology, Faridabad
Prof. Rishi Pal Singh	<ul style="list-style-type: none"> • Member of Academic Bodies of various other Institutions: <ul style="list-style-type: none"> ▪ MDU, Rohtak ▪ Indira Gandhi University, Meerpur, Rewari
Prof. Dharmender Kumar	<ul style="list-style-type: none"> • Member, Academic Council, Uttarakhand Open University, Haldwani. • Member, Faculty of Engineering and Technology, MDU Rohtak. • Member, Faculty of Engineering and Technology, MMU, Mullana. • Member, BOS in Engineering & Technology, MDU Rohtak. • Member, UGBOS, CS, CDLU, Sirsa. • Member, BOS, SRM University, Sonapat. • Member, DRC, BPSM Vishwavidyalaya, Khanpur Kalan, Sonapat.
Prof. Om Parkash Sangwan	<ul style="list-style-type: none"> • Member, IACSIT (International Association of Computer Science and Information Technology, USA (Membership No. 80331424) • Life Member, Computer Society of India, India. (Membership No. 01083699) • Member, Computer Science Teacher Association, New York, USA (Membership No. 4711935) • Member, International Association of Engineers (IAENG), Hong Kong (Membership No. 123697) • Reviewer, Internal Journal of Expert Systems with Applications or its Open Access Mirror, Elsevier. • Reviewer, Advances in Science, Technology and Engineering Systems Journal (ASTES), UK and United States. • Reviewer, Journal of King Saud University - Computer and Information Sciences, Elsevier. • Reviewer, Computer Methods and Programs in Biomedicine, Elsevier. • Reviewer, SN Applied Science (SNAS), Springer Nature.
Dr. Ritu Makani	<ul style="list-style-type: none"> • Member BOSR
Dr. Amandeep	<ul style="list-style-type: none"> • Department Research Committee •
Dr. Deepak Nandal	<ul style="list-style-type: none"> • Department Research Committee •
Dr. SEEMA RANI	<ol style="list-style-type: none"> 1. Nodal Officer: E-Office 2. Office In charge: Scholarship 3. Office In charge: Attendance 4. Chairperson of SCST 5. Office In charge: Time Table 6. Member: Internal Complaint Committee 7. Advisory Member: NSS 8. Member: Training Placement Cell 9. Member: Discipline Committee 10. Member: Entrepreneurship Development Programming Cell

	11. Member: Cultural Core Committee 12. Member: Anti-ragging SQAD 13. Member: Establishment of Centre of Excellence for Artificial Intelligence 14. Member: Industry Interaction Cell 15. Member: Awareness Campaign regarding admission in engineering courses 16. Deputy Superintendent : CDLSIET, Panniwala Mota, Sirsa for conducting Theory Exams. 17. Paper Setter/Paper Checker: Different Universities & colleges
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(XIV) Detail of Consultancy Project/Work in Department: NIL

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

(XV) Lectures (other than class) (Invited talks/Extension Lectures) delivered(Give Faculty wise detail)

Type	Topic/ Subject	Institution	Dates	Faculty Name
Expert Talk	Importance of e-Contents In Higher Education	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	07.08.2023	Prof. O.P.Sangwan
Expert Talk	Data Analytics Using Soft Computing Techniques	Dept. of ICT & Dept. of Mathematics Chaudhary Bansi Lal University, Bhiwani	13.10.2023	Prof. O.P.Sangwan
Expert Talk	Big Data Analytics and Its Scope	Dept. of ICT & Dept. of Mathematics Chaudhary Bansi Lal University, Bhiwani	24.04.2024	Prof. O.P.Sangwan
Expert Talk	Use of AI to Make India a Developed Country	Faculty of Engineering, Baba Mast Nath University, Rohtak, Haryana	28.05.2024	Prof. O.P.Sangwan

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

Sr. No.	Name of Teacher	Additional Positions	Duration From	Duration To
1.	Prof. Yogesh Chaba	Dean Students' Welfare	July, 2023	Till Date
2.	Prof. O.P. Sangwan	Chairperson, Deptt. of CSE	July 10, 2023	Till Date
3.	Prof. O.P. Sangwan	Chief Warden, Boys Hostels	April 2023	Till Date
4.	Prof. Sanjeev Kumar	Networking Incharge	October 2023	Till Date
5.	Dr. Manoj	Warden, Boys Hostel- IV	April 2023	Till Date

(XVII) Training /Internship/ Placement Activities information of the Department:

Activity	No. of Students placed	No. of Companies in which placed*
Training	Referred to Training and Placement Cell.	
Placement		
Activity	No. of Students	No. of Companies *
Training	Referred to Training and Placement Cell.	
Placement		

- Note:- Please attach a list of companies alongwith number of students for training and placement with dates, etc..

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

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

Sr. No.	Name of Activity	Activity Topic	National/ International	Number of participants	Date of Activity
1.	Short Term Training Programme (STTP)	Python Programming & Data Analytics	National	75	26-08-2023 to 11-09-2023
2.	Workshop	Cyber security & cyber Crime	National	100	21-11-2023

3.	Workshop	Essential Documents formatting Skills	National	50	26-11-2023
4.	Hackathon (Internal)	#SIH2023	National	150	22-09-2023
5.	Hackathon (India Level)	Smart India Hackathon	National	240	19-12-2023 to 20-12-2023
6.	Faculty Development Programme	Emerging Trends in Computational Intelligence	National	200	15-01-2024 to 20-01-2024

ii. Extension lecture:

Topic	Resource Person	Number of Participants	Dates

iii. Students Tour

Places Visited	Number of Participants	Dates/ Duration	Faculty Incharge
Manali, H.P.	55	6 October to 10 October	Dr. Manoj/ Mr. Ayush Sharma

iv. Industry interaction Programmes :

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

(XIX) Awards/ Honours received by Faculty

Name of the Teacher	Title of the Award	Name of the Awarding Agency	National / International	Date Conferred

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

- Dept has applied for the new Integrated BCA-MCA 5 Year as per NEp-2020 with effect from the academic session 2024-2025.
- Dept has applied for the increase in Intake of B.Tech (CSE) AI & ML from 60 to 120 seats with effect from academic session 2024-25

Signature of the Chairperson

ANNEXURE**DEPARTMENT OF Computer Science & Engineering****Summary of Research Publications:**

Total Books Published	Books published with International publisher	Books published with National publisher	-
02 Books 09 Book Chapter	02 Books 09 Book Chapter	--	-
Total Research papers published in Journals	Total Published in UGC-CARE List Group 1 (Journals found qualified through UGC-CARE protocols)	Total Published in UGC-CARE List Category 2 (Journals Indexed in WOS/Scopus)	Highest Impact Factor
33	--	33	-
Total Number of Papers Published in Conferences	Total published in Scopus/WOS indexed Conferences	Total published in non-indexed Conferences	-
21	21	--	--
Total number of funded research projects	Completed	Ongoing	-
--	--	--	-
TOTAL NUMBER OF SCHOLARS REGISTERED in PH.D. PROGRAMME	PhD. Degree submitted	PhD. Degree awarded	-
27	02	15	-

Signature of the Chairperson