

Track ID: UPUNGN11440

Volume-3

EVALUATIVE REPORT

Department of Computer Science and Engineering and
Information Technology

for

ASSESSMENT AND ACCREDITATION

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE



JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY
NOIDA

17 September, 2015

Evaluative Report of the Department

1. Name of the Department

Department of Computer Science Engineering & Information Technology
(CSE&IT)

2. Year of establishment

2001

3. Is the Department part of a School/Faculty of the university?

JIIT is a unitary University. It has departments that include Department of Computer Science Engineering & Information Technology, and also a Business School.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)

- i. Ph.D.
- ii. M.Tech(Computer Science and Engineering)
- iii. M.Tech (Computer Science and Engineering with Specialization in Information Security)
- iv. M.Tech(Computer Science and Engineering with Specialization in Mobile Technology)
- v. M.Tech(Information Technology and Entrepreneurship)
- vi. M.Tech(Data Analytics)
- vii. Dual Degree B.Tech-M.Tech(Computer Science and Engineering)
- viii. [After UGC circular, July 2014, regarding standardisation of nomenclature of degrees, this program will run as Integrated M.Tech (Computer Science and Engineering)]
- ix. B.Tech(Computer Science and Engineering)
- x. B.Tech(Information Technology)

5. Interdisciplinary programmes and departments involved

- i. M.Tech(Information Technology and Entrepreneurship) in collaboration with Business School and Department of Humanities and Social Sciences.
- ii. M.Tech(Data Analytics) in collaboration with Department of Humanities and Social Sciences, Mathematics, and Business School.
- iii. In addition, all students of B.Tech programs have to take several

courses from other departments – Electronics and Communication Engineering(ECE), Humanities and Social Sciences(HSS), Mathematics, Physics and Material Science and Engineering(PMSE) and Biotechnology

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

None

7. Details of programmes discontinued, if any, with reasons:

No program has been discontinued in the last 4 years

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

Semester along with Choice Based Credit System

9. Participation of the department in the courses offered by other departments

The department offers following courses in the B.Tech./M.Tech. programs of other departments:

Course Name	Beneficiary Department
Introduction of Computers and Programming	ECE, BIOTECH
Computer Programming Lab	ECE, BIOTECH
Data Structures	ECE, BIOTECH
Data Structures Lab	ECE, BIOTECH
Unix Lab	ECE
Multimedia Lab	ECE
Microprocessor and Microcontollers	ECE
Microprocessor and Microcontollers Lab	ECE
Object Oriented systems and Programming	ECE
Object Oriented systems and Programming Lab	ECE
Cryptography and Network Security	ECE
Machine Learning and Big Data Analytics	ECE
Information Retrieval and Data Mining	ECE, BIOTECH
Human Computer Interaction	ECE
Computer Graphics	ECE
Image processing	ECE
Advanced Computer programming and Data Structures	ECE
Theory of Automata and Compiler Design	ECE

Multimedia Content and Animation Design	ECE, BIOTECH
Network programming	ECE
Artificial Intelligence	ECE
Software Engineering Management	ECE
Embedded Systems Design	ECE
Network Optimisation	ECE
Petri nets and Applications	ECE
Wireless Sensor and Actuator Networks	ECE
Theory of Cryptography	ECE

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned [#]	Filled	Actual (including CAS & MPS)
Professor	17	03	03
Associate Professors	40	04	04
Asst. Professors	82	84	84
Teaching Assistants*			23*

[#]JIIT follows flexible cadre structure like IITs

* Full time Ph.D/ M.Tech students

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	Exp (Yrs)	No. of students guided
Padam Kumar	Ph.D.	Professor & Dean (RID)	Parallel and Distributed Computing	41	Ph.D. Completed: 02 Ongoing: 01 M.Tech. Completed: 18
Krishna Kant	Ph.D.	Professor & Dean (sector 128)	Embedded Systems, Micro Processor	38	Ph.D. Ongoing: 04
Sanjay Goel	Ph.D.	Professor & HoD	Multimedia Computing, HCI, Computing Education	29	Ph.D. Ongoing: 02 M.Tech. Completed: 09
Krishna Asawa	Ph.D.	Associate Professor	Soft Computing, Data & knowledge Engg.	17	Ph.D. Completed: 01 Ongoing: 03
Vikas Saxena	Ph.D.	Associate	Image Processing,	13	Ph.D.

		Professor	Computer Vision		Completed: 03 Ongoing: 02 M.Tech. Completed: 14
Divakar Yadav	Ph.D.	Associate Professor	Information Retrieval, Soft Computing	14	Ph.D. Completed: 01 Ongoing: 06 M.Tech. Completed: 08
Nitin Kumar	Ph.D.	Associate professor	Distributed Computing		Ph.D. Completed: 06 Ongoing: 08 M.Tech. Completed: 18
Prakash Kumar	M.Tech	Assistant Professor	Distributed Computing, Cloud Computing	19	M.Tech. Completed: 12
Saurabh Kumar Raina	Ph.D.	Assistant Professor	Data Science, Big Data Analytics, computer Arithmetic	11	Ph.D. Ongoing: 04 M.Tech. Completed: 05
Satish Chandra	Ph.D.	Assistant Professor	Machine Learning, Intelligent Computing, Algorithms	14	Ph.D. Ongoing: 06 M.Tech. Completed: 09
Sandeep Kumar Singh	Ph.D.	Assistant Professor	SE, Web Application, IR & DM, DB	13	Ph.D. Completed: 01 Ongoing: 04 M.Tech. Completed: 10
Charu	Ph.D.	Assistant Professor	CN, WSN, Security	9	Ph.D. Ongoing: 03
Chetna Gupta	Ph.D.	Assistant Professor	SE, Data Mining	10	Ph.D. Ongoing: 02 M.Tech. Completed: 07
Chetna Dabas	Ph.D.	Assistant Professor	Parallel and Distributed Computing	12	Ph.D. Ongoing: 02 M.Tech. Completed: 05
Shelly Sachdeva	Ph.D.	Assistant Professor	Database Systems	13	Ph.D. Ongoing: 03
Devpriya Soni	Ph.D.	Assistant	SE	12	Ph.D.

		Professor			Ongoing: 02
Neetu Sardana	Ph.D.	Assistant Professor	Databases & Web, Web Mining, SNA.	12	Ph.D. Ongoing: 03 M.Tech. Completed: 06
Dharmveer Singh Rajpoot	Ph.D.	Assistant Professor	DM, Soft Computing, Machine Learning	5	Ph.D. Ongoing: 03 M.Tech completed:02
Shikha K. Mehta	Ph.D.	Assistant Professor	Soft Computing, Nature Inspired Algorithms, DM/Web Mining	15	Ph.D. Ongoing: 01 M.Tech. Completed: 02
Anuja Arora	Ph.D	Assistant Professor	Web Tech , SE, IS, IR & DM/ Web Mining, SNA	11	Ph.D. Ongoing: 02 M.Tech. Completed: 06
Manish Kumar Thakur	Ph. D	Assistant Professor	Video Forensics, Algorithms	14	M Tech Completed: 07
Mukesh Saraswat	Ph.D.	Assistant Professor	Image Processing	9	Ph.D. Ongoing: 02
Govind Prasad Gupta	Ph.D.	Assistant Professor	Network, WSN	9	Ph.D. Ongoing: 01 M.Tech. completed : 03
Adwitiya Sinha	Ph.D.	Assistant Professor	WSN	3	M.Tech. Completed: 04
Sanchika Gupta	Ph.D.	Assistant Professor	Cloud Computing & Security	NIL	NIL
Suma Dawn	Ph.D.	Assistant Professor	CG, Image Processing, Multimedia, Computer Vision	10	M.Tech. Completed: 06
Tribhuwan Kumar Tiwari	Ph.D.	Assistant Professor	Audio & Image Processing	11	M.Tech. Completed: 03
Sangeeta Mittal	Ph.D.	Assistant Professor	Context Aware Computing, Cryptography	12	M.Tech. Completed: 07
Bharat Gupta	M.Tech	Assistant Professor	DM, High Performance Computing, Distributed & Database Systems	14	NIL

Minakshi Gujral	MS	Assistant Professor	DM,OOSP, DBMS	16	NIL
Mukta Goyal	M.Tech.	Assistant Professor	Soft Computing, Cryptography	15	M.Tech. Completed: 05
K.Rajalakshmi	M.E.	Assistant Professor	WN, Mobile Computing, Computer Networks	11	M.Tech. Completed: 06
Kavita Pandey	M.Tech.	Assistant Professor	Mobile & Vehicular Ad-hoc Networks	10	M.Tech. Completed: 07
Hema N	M.Tech.	Assistant Professor	Automation, Robotics, Micro-controller systems	14	M.Tech. Completed: 05
Gagandeep Kaur	M.E.	Assistant Professor	CN, OS	10	M.Tech Completed: 04
Adarsh Kumar	M.E.	Assistant Professor	Network Security Mobile Ad-hoc Networks	9	M.Tech. Completed: 05
Indu Chawla	M.Tech.	Assistant Professor	Database, DM, SE	14	M.Tech. Completed: 05
Pawan Kumar Upadhyay	M.Tech.	Assistant Professor	IP, Computer Architecture , Embedded system	9	M.Tech. Completed: 02
Gaurav Saxena	M.Tech.	Assistant Professor	Algorithmic Information Theory	6	NIL
Sandeep Jain	M.Tech.	Assistant Professor	Algorithms	8	NIL
Shikha Jain	M.Tech.	Assistant Professor	TOC, Algorithms, Compiler Design	11	M.Tech. Completed: 03
Dhanalekshmi G.	M.Tech.	Assistant Professor	Database, Compiler Design	13	NIL
Parmeet Kaur	M.Tech.	Assistant Professor	Distributed Computing	14	NIL
K. Vimal Kumar	M.E.	Assistant Professor	NLP, Data Structures & Algorithms, Compiler Design	8	M.Tech Completed: 02
Sanjeev	M.Tech.	Assistant Professor	Computer Networks	8	NIL
Archana	M.Tech.	Assistant	Database	12	NIL

Purwar		Professor	Systems, DM		
Vivek Mishra	M.Tech.	Assistant Professor	SE, Cloud Computing	8	M.Tech. Completed: 03
Arti Jain	MS	Assistant Professor	NLP, DM, Data Structures	12	NIL
Santosh Kumar Verma	M.Tech.	Assistant Professor	IP, HCI	8	NIL
Megha Rathi	M.Tech.	Assistant Professor	Database, DM, Machine Learning, SE	7	NIL
Harvinder	M.Tech.	Assistant Professor	DM /Web Mining	8	NIL
Prashant Kaushik	M.Tech.	Assistant Professor	Computer Games, MML	5	M.Tech. Completed: 05
Niyati Aggrawal	M.Tech.	Assistant Professor	Database, DM, Cryptography	5	NIL
Anubhuti Roda Mohindra	MS	Assistant Professor	Computer Networks	6	NIL
Ambalika Sarkar	M.Tech.	Assistant Professor	IP, Machine Learning, Embedded System	5	M.Tech. Completed : 02
Gaurav Kumar Nigam	M.Tech.	Assistant Professor	WSN, AI, CG	7	NIL
Amanpreet Kaur	M.Tech.	Assistant Professor	WSN, Cryptography	5	NIL
Ravinder Ahuja	M.Tech.	Assistant Professor	Cloud Computing	8	NIL
Sangeeta	M.Tech.	Assistant Professor	SE, DM	3	NIL
Shipra Madan	M.Tech.	Assistant Professor	Machine Learning, Pattern Recognition	7	NIL
Pulkit Menhdiratta	M.Tech.	Assistant Professor	IS, DM, Big Data Analytics	3	NIL
Himanshu Agrawal	M.Tech.	Assistant Professor	Wireless Comm. & Computing	5	NIL
Anuradha Gupta	M.Tech.	Assistant Professor	Information Security	3	NIL
Sudhanshu Kulshrestha	M.Tech.	Assistant Professor	CN, Network Security, Database, Web Tech., Cloud Computing	4	NIL

Himanshu Mittal	M.Tech.	Assistant Professor	WSN, Security, Soft Computing	3	NIL
Raju Pal	M.Tech.	Assistant Professor	WSN & Computer Networks, Soft Computing	3	NIL
Arpita Jadhav Bhatt	M.Tech.	Assistant Professor	Mobile Computing, Mobile App Development (iOS devices)	4	NIL
Shardha Porwal	M.Tech.	Assistant Professor	Digital Image Processing	5	NIL
Sakshi Agarwal	M.Tech.	Assistant Professor	DM & Information Security	3	NIL
Aditi Sharma	M.Tech.	Assistant Professor	Database Systems, DM & DW	2	NIL
Ankita Gupta	M.Tech.	Assistant Professor	IS, Pattern Recognition	2	NIL
Ankita	M.Tech.	Assistant Professor	Soft computing, Biometrics, IP	2	NIL
Somya Jain	M.Tech.	Assistant Professor	DM, Machine Learning, CN, SE	3	NIL
Kishore Kumar Yarramshetty	M.Tech.	Assistant Professor	Graph Theory, Algorithms	3	NIL
Mahendra Kumar Gurve	M.Tech.	Assistant Professor	GIS, Web Tech., DM, IP	2	NIL
Rohit Pal Singh	MS	Assistant Professor	Databases, C Geometry	2	NIL
Parul Agarwal	M.Tech.	Assistant Professor	Soft Computing	3	NIL
Bansidhar Joshi	M.Tech.	Assistant Professor	Cloud Computing	3	NIL
Vartika Srivastava	M.Tech.	Assistant Professor	Information Security	3	NIL
Akanksha Bhardwaj	M.Tech.	Assistant Professor	Networks	1	NIL
Ankur Kulhari	M.Tech.	Assistant Professor	CN	2	NIL
Avinash Chandra Pandey	M.Tech.	Assistant Professor	DM	4	NIL

Purtee Kohli	M,Phil.	Assistant Professor	CN, Soft Computing, SE	4	NIL
Kritika Rani	M.Tech.	Assistant Professor	Data Engineering	1	NIL
Tajinder Kaur	M.E.	Assistant Professor	Data Engineering	2	NIL
Aayushee Gupta	M.Tech.	Assistant Professor	DM, IR, Machine Learning	1	NIL
Yogesh Singh	M.Tech.	Assistant Professor	Pattern Recognition, Computer Vision	3	NIL
Vivek Goel	M.E.	Assistant Professor	DM, Algorithms	4	NIL
Varsha Garg	M.Tech.	Assistant Professor	Image Processing	12	NIL
Kashav Ajmera	M.Tech.	Assistant Professor	Cloud Computing	NIL	NIL
Taj Alam	M.Tech	Assistant Professor	Distributed System	1	NIL

12. List of Senior Visiting Fellows, adjunct faculty, emeritus professors

NIL

13. Percentage of classes taken by temporary faculty – programme-wise information

NIL

14. Programme-wise Student Teacher Ratio

UG programs: 21:01

PG programs: 13:01

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled	Actual
Technical	14	14	14
Administrative	Centrally managed; shared by all departments		

16. Research thrust areas as recognized by major funding agencies

i. Multimedia Technology and Applications

Use of multimedia in computing and presentation of data has been revolutionary and still evolving. This enlisted thrust area aims to develop applications, algorithms, architectures and prototypes using multimedia

information from text, audio, video and novel sensory forms. Multimedia Technology and Applications have been acknowledged as emerging area by premier organizations and funding agencies such as DRDO, DIT, MHRD, UGC and DST.

Convergence and multimedia technologies is one of thrust areas identified by Department of Electronics & IT, India. Thrust areas identified by DRDO's Centre for Artificial Intelligence and Robotics (CAIR) include Computer Vision and Signal Processing. ACM recently started transactions on Multimedia Computing, Communications and Applications (2006) and Speech and Language Processing. IEEE started transactions to promote research in Audio, Speech and Language Processing (Started 2006). IFIP established technical committee on entertainment computing in 2002.

Researchers working in this group focus on core concepts and advancements in Audio and Video Water Marking, remote sensing images, biometric feature classifiers and visual cryptography. Currently, 16 faculty members are working in this broad area. Four Ph.D.s have been completed and 3 more are in progress. Around 70 research papers have been published in this area by JIIT faculty and students. 15 M.Tech. and more than 450 B.Tech. projects have been completed in this area

Further, the department is teaching several courses in these areas- Computer Graphics, Image Processing, Multimedia Interaction Design, Multimedia Computing and Computer Vision.

ii. Knowledge Based Systems, Artificial Intelligence, Information Retrieval, Machine Learning

Intelligent decision making methods and machine learning applications are used as main tools to create autonomous applications built upon knowledge bases. Each of the paradigms listed in this thrust area has huge potential for research and development. Areas of established strength and recent focus includes heuristic search, deduction, machine learning, and combinatorial optimization, ambient intelligence, natural language processing and formal verification. Cognitive Science Research Initiative is being undertaken by Department of Science and Technology, India. Defense Research & Development Organization (DRDO) and Centre for Artificial Intelligence and Robotics (CAIR) are working on intelligent decision making methods, technologies for soldier support, intelligent systems and situational awareness (SA). Data Engineering is a thrust area identified by Computer Society of India (CSI). MHRD has stressed studies on Cognitive Science in its 12th plan. IEEE established technical committee on Semantic Committee in 2004. ACM has promoted research in this area as SIGEvo was established in 2005 and ACM Transactions on Computer-Human Interaction (Started 2003) and computational logic started 2003.

Research in this area is supported by fundamentals strengthened through courses like Data Mining, Artificial Intelligence, Software Computing, Pattern Recognition and Natural Language Processing. Currently, 39 faculty members are working in this broad area. Three Ph.D.s have been completed and 14 more are in progress. Around 70 research papers have been published. 36 M.Tech. and more than 250 B.Tech projects have been completed in this area. Ph.D. and M.Tech students are exploring pre-processing and Post-processing challenges in AI and data mining, sentiment analysis and big data analytics using advanced Hadoop and MapReduce frameworks. The research project under this thrust area was funded by research grants worth ~ 12.5 Lac from Government of India, All India Council for Technical Education.

IIIT has started a new M.Tech program in Data Analytics in 2015.

iii. Distributed Systems, Computer Networks, Wireless Networks

Wired and wireless networks of connected devices are the backbone of modern computing era. Most common form of computing model for such networks is: distributed systems. Cloud computing, internet of things and personal area and ad hoc network stack are topics of interest among peers in this area. Department of Electronics and Information Technology focuses on networking technologies, advanced computing and high performance computing techniques, systems and applications. Communications and Networking and Network Management Systems have been identified as research areas by Centre for Artificial Intelligence and Robotics (CAIR). Department of Science & Technology, Science and Engineering Research Council promote R & D in Wireless Communication. ACM recognized these as emerging areas and established SIGHPC in 2007. ACM Transactions on Sensor Networks and on Autonomous and Adaptive Systems were started in 2006 each. ACM Transactions on the Web was started on 2007. IFIP established WG 2.14/6.12/8.10 - Service-Oriented Systems for focused work in this area.

Currently, 33 faculty members are working in this broad area. Two Ph.D. has been completed and 13 more are in progress. Design of Accelerating Techniques for Performance Issues in RFID Systems has culminated in a doctoral thesis in the department. Many others addressing Cost Effective Survivable Cellular Access Network, Design of Resource Allocation and scalability Schemes in Cloud and Distributed Environments etc are under progress. Our publications in this area include more than 112 research papers. 46 M.Tech and more than 375 B.Tech projects have been completed in this area.

Courses focusing on detailed coverage of network programming, Wireless Sensors and Mobile Adhoc Networks programming, Multimedia and Wireless Networks and Advanced Mobile Computing, Distributed Computing, Network Programming ,Cloud Computing and Performance

Evaluation of Computing Systems etc. are offered.

iv. Web, Mobile Technologies and Information Systems

This thrust area is an adaptive and self-configuring area which works for all organizations. Web and Mobile technologies makes it possible to cover various stakeholders need using applications such as- Internet banking, online share trading, e-ticket services etc. E-commerce and M-Commerce Initiatives, Undertaking projects such as- National Digital Library, Technology Development for Indian Languages- TDIL, Coil-Net are focus work areas identities by various national R&D and research funding bodies. ACM Transactions on Internet Technology started in 2003, on Knowledge Discovery from Data started in 2007, on Intelligent Systems and Technology started in 2010. IEEE Computer Society (CS) setup Technical Community for Services Computing in 2003.

Department is involved in various activities to ascertain the knowledge enhancement in this area. Emerging areas are covered through courses like Web Application Engineering, E-Commerce, Information Systems, Mobile Computing, Mobile Applications Engineering, etc.

Currently, 13 faculty members are working in this broad area. 8 Ph.D's are in progress. 16 M.Tech. and more than 315 B. Tech projects have been completed in this area. Our publications in this area include 34 research papers.

JIIT has started a new M.Tech program in Computer Science with Specialization in Mobile Technology in 2015.

v. Cyber Security

Information residing in public domain network, i.e. Internet is a major asset nowadays for individuals and organizations. Cyber security has thus been recognized as thrust area of utmost importance by all R&D and research promoting organizations like C-DAC, UGC and DEITY. Information Security is identified thrust area identified by Centre for Artificial Intelligence and Robotics (CAIR), DRDO. Department of Electronics and Information Technology support working on Cryptography and Cryptanalysis, Network and Systems Security and Security Architectures. Department of Science & Technology and CSIR Centre for Mathematical Modeling and Computer Simulation (C-CMMACS) funds information security projects. ACM has started transactions on Information and System Security in 2003. IFIP established working Group on Digital Forensics and initiated International Conference on Digital Forensics in 2005.

Undergraduate and Graduate students are sensitized about problems and solutions in cyber security through courses on Cryptography, Computer Security, and Security Protocols etc. Currently, 11 faculty members are

working in this broad area. One Ph.D. has been completed and 5 in progress. M.Tech. dissertations and B.Tech projects are focusing on application and technology centric topics in this field. 16 M.Tech. and more than 75 B.Tech projects have been completed in this area. Implementation of botnet detection system, cryptography in MANETs, development of novel intrusion detection systems is being undertaken. Our work in this area is supported by publications including 18 research papers.

In 2014, JIIT started a new M.Tech program in Computer Science with specialization in Information Security.

vi. Computing Education and Learning Technologies

Department of Electronics and Information Technology (DeitY), promote IT based education, technologies, systems and applications. Planning Commission promoted this area in Scheme of Socio-Economic Research (SER) for developing good practices guide for Higher Education and developing an academic Performance Management System. Human Computing and IT for Social Science Research has been identified by thrust area identified by Computer Society of India. MHRD is promoting technology enabled learning by its nationwide programmes like NPTEL and National Knowledge Network under the National Mission on Education through Information & Communication Technology (NMEICT). ACM recently formed Special Interest Group on IT education (estd. 2003). IEEE organizes International Conference on Technology for Education since 2008.

Department offers courses like Theory of Knowledge, Learning, and Research, Problem Solving and Research Methodology, Learning Technologies and Educational Models for Computer Science. The department continuously develops and refines models and practices of computing education including IT Entrepreneurship. Currently, 11 faculty members are working in this broad area. One Ph.D. has been completed and one in process. 6 M.Tech. and more than 22 B.Tech. projects have been completed in this area. Our work in this area is supported by publications including 3 chapters and 18 research papers.

A faculty development program on “Emerging Trends in Computing Education” has been designed to sensitize the computing faculty to the contemporary educational research wrt computing courses. JIIT started a new M.Tech program in Information Technology & Entrepreneurship in 2014.

vii. Computer Architecture & Embedded Systems

Design and development of home and industrial automation are fuelled by researches in this area. Systems level algorithm implementations and their

analysis vis a vis underlying hardware architecture are scrutinized through specialized software. Defense Research & Development Organization of India acknowledges robotics and intelligent systems as emerging areas. Research in Parallel Architectures & Super Computing is promoted by Science and Engineering research council. CSIR Centre for Mathematical Modeling and Computer Simulation (C-CMMACS) funds research in High Performance Computing. Department of Information Technology promotes work in development of unmanned robotic soldiers. Advanced Numerical Research & Analysis Group of DRDO has parallel processing as one of the major thrust area. ACM promotes research in this area and initiated Transactions on Accessible Computing (since 2008). IEEE setup technical Committee on Scalable Computing (estd. 2008).

Department offers courses like Parallel Processing , Microprocessor and Controllers, Computer Organization and Architecture , Computer Organization, Systems Programming and Embedded Systems Design in this area. Many post graduate students do their dissertations under this research group. The research activity is mentored by a group of 22 faculty actively involved in research in parallel programming and multi core architectures. One Ph.D. is in progress.4 M.Tech. and more than 83 B. Tech projects have been completed in this area. Our work in this area is supported by publications including 2 books and 17 research papers.

viii. Software Engineering

Software Engineering is about engineering design, development and maintenance of quality software. Knowledge about good software engineering practices and tools is dispensed through specialized elective courses like software engineering management, software quality, software design and Human Centered system design. Computer Society of India has Special interest group for software engineering. DEITY has Software reliability as a part of their course curriculum. AICTE and DST has been funding projects for Development of Software Engineering Tools for requirement to UML model, MISRA C Rule Checker and Project Cost Estimation and design of integrated framework for testing – “Development of Spatio-Temporal Access Control Models”.

Department offers courses like Software Engineering Management, Software Quality, Software Design, Human Computer Interaction and Human Centered Systems Design to impart knowledge in this area. Currently, 14 faculty members are working in this broad area. One Ph.D. has been completed and 7 more are in progress. Many post graduate students do their dissertations under this research group. 20 M.Tech. and more than 140 B. Tech projects have been completed in this area. Our work in this area is supported by publications including 1 chapter and 41 research papers.

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise**

Ongoing: NIL

Completed:

S. No.	Name of the Project	PI	Funding Agency	Amount sanctioned
1.	A Psyche Monitoring and Regulating system	Dr. Krishna Asawa Dr. Hima Bindu	RPS-2008-09, AICTE, INDIA	12.65 lacs

18. **Inter-institutional collaborative projects and associated grants received**

The department has so far not received any grant for collaborative research. However, a good number of faculty members of other institutes as well as some industry professionals have worked with different faculty members of department for pursuing/supervising doctoral research. This collaboration has resulted in many Ph.D. thesis at IIIT and other universities and also several publications.

i. National Collaborations at individual level (without grants/funds)

Following faculty members are engaged in joint supervision (Ph.D. work) with faculty of other institutions.

S.No	Faculty at IIIT	Collaborating Faculty	Subject Area	Outcome of Collaboration
1.	Prof. J. P. Gupta	Sangeeta Sabharwal, NSIT, New Delhi	Software Engineering	01(Thesis) 09 (Research Publication)
		AK Sharma, YMCA University, Faridabad	Web Crawler	01(Thesis) 08 (Research Publication)
2.	Sandeep Kumar Singh & Divakar Yadav	AK Sharma, YMCA University, Faridabad	Search Engine	01(Thesis) 03 (Research Publication)
3.	Vikas Saxena	Prof. J.P Gupta Lingaya University (formerly at IIIT)	Video Forensics	01(Thesis) 05 (Research Publication)

			Audio Forensics	01(Thesis) 03 (Research Publication)
			Anomaly Detection In Computer Network	05 (Research Publication)
4.	Saurabh Kumar Raina	Prof. R S Rao, Ambedkar Institute of Advanced Communication Technologies and Research, GGSIP University, Delhi.	Adhoc Networks	NIL
		SS Bedi, MJP Rohilkhand University, Bareilly.	Group key Management in Secure Group Communication	NIL
5.	Dharamveer Rajpoot	Ashish Sureka, IIIT, Delhi.	Mining Software Repositories	NIL
6.	Divakar Yadav	Abhay Bansal, Amity University, Noida,	Image Processing	03 (Research Publication)

ii. International Collaborations:

- a. With grants/funds: NIL
- b. Without grants/funds:

S.No.	Faculty at JIIT, Noida	Collaborating Faculty	Subject Area	Outcome of Collab.
1.	Divakar Yadav	Juan Bautista Llorens Morillo Jorge Morato University of Carlos-III, Madrid Spain	Information Retrieval (Knowledge Reuse Research Group, Deptt of Computer Science & Engineering	05 (Research Publication)
2.	Shelly Sachdeva	Subhash Bhalla, University of Aizu, Japan	Databases	01 (Book Chapter) 01 (Research Publication)
3.	Bharat Gupta	Stephen Winter, University of Westminster, UK	Data replication in Desktop-based DCI	NIL

Details of Collaborative Publications are given in Annexure-I/CSE.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

NIL

20. Research facility / centre with

- i. state recognition : None
- ii. national recognition : None
- iii. international recognition : None

21. Special research laboratories sponsored by / created by industry or corporate bodies

JIIT-Accenture Innovation lab under joint sponsorship of JIIT and Accenture

22. Publications:

1.	Total Publications : Peer reviewed	145
	International Journals	140
	National Journals	05
2.	Monographs	00
3.	Chapters in Books	04
4.	Edited books	07
5.	Books with ISBN with details of publications	03
6.	Number listed in International Databases	
7.	Citation Index (Google)	
	Range	1-39
	Average	5.52
8.	Citation Index (Scopus)	
	Range	1-27
	Average	3.02
9.	SNIP	1.75
10.	SJR	0.76
11.	Impact Factor (Scopus)	
	Range	0.0 – 1.97
	Average	0.42
	Total	14.77
12.	H-index (Scopus)	
	Average	29.37
	Total	1028

Details of Publications are given in Annexure-II/CSE. Details of Citations are given in Annexure-III/CSE.

23. **Details of patents and income generated**

NIL

24. **Areas of consultancy and income generated**

NIL

25. **Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad**

Sanjay Goel	Visited BML Munjal University on 29/03/15 as an expert on the faculty selection committee
	Sanjay Goel, Effective Teaching of Engineering Courses: Beyond Bloom's taxonomy, IIT Delhi, 8th Feb, 2014.
	Sanjay Goel, Research in Computing Education, IIT Delhi, 6 Jan 2014.
	Sanjay Goel, several visits to Sharda University as expert to advise it on the design and development of its LMS during 2013-14.
	Sanjay Goel, several visits to Mahamaya Technical University as members of the RDC for Computer Science during 2012-14.
Vikas Saxena	Vikas Saxena, Invited speaker in IEEE National workshop on Computer Vision & Image Processing in LNMIIT, Jaipur, 8-9 September 2012.
Sandeep Kumar Singh	Sandeep Kumar Singh Delivered Guest Lecture on "Collective Intelligence" in ISTE approved FDP On Emerging Trends in Engineering Technology and Management (ETIETM'13) at YMCA, Faridabad 5th July 2013.
Krishna Asawa	Krishna Asawa, Cryptographic Iterative Hash Constructions, JECRC Jodhpur, June 2014.
Ankur Kulhari	Ankur Kulhari, Advanced Computer Networks, ABV-IIITM Gwalior, April 2014.
	Ankur Kulhari delivered guest lectures for Advanced Computer Networks at Indian Institute of Information Technology and Management, Gwalior in Jan 2014 session targeting M. Tech students

Divakar Yadav	Divakar Yadav delivered an invited talk on “Information retrieval: basics, challenges and tool”, during AICTE sponsored FDP on “Software Testing, Database testing and Reliability”, from 3-12 March, 2014, organized at Krishna Engineering College Ghaziabad.
Manish K Thakur	Manish K Thakur delivered an Invited Talk titled as "Exploring the World of Interconnection Network" during the 2 days National Seminar on "Recent Research Trends in Parallel Computing" organised by IES Group of Institution, Bhopal from 10 - 11 March 2015.

26. Faculty serving in a) National committees (b) International committees c) Editorial Boards d) any other (please specify)

Around 60% faculty members of the department are members of one or the other sub-committee for organisation of annual conference, IC3 being organised every year at JIIT since 2008 in collaboration with University of Florida, Gainseville.

A large number of faculty members were members of one or the other sub-committee for organisation of IEEE ISSPIT-2014.

Some faculty members are also on the various sub-committees and various other international and national conferences organised outside JIIT and also on the reviewer board of various types of academic publications. Details of Faculty serving in various committees are given in Annexure-IV/CSE.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

To recharge the faculty, Department organizes conferences, workshops, seminars, expert talks, refresher courses, faculty development programs, etc., at JIIT. In addition, faculty members participate in these activities outside also. Details of Faculty recharging strategies are given in Annexure-V/CSE.

28. Student projects

i. Percentage of students who have done in-house projects including inter-departmental projects:

Nearly 75%

ii. Percentage of students doing projects in collaboration with other universities/industry/institute:

Nearly 25%. In addition, All B. Tech. students also go for industry internship after 3rd year.

29. Awards / recognitions received at the national and international level by Faculty:

- a) Prakash Kumar was awarded Best paper award for his paper "VIMCLOUD: A Trust Aware Cloud Computing Framework ", at 2nd International Conference on Eco-friendly Computing and Communication Systems (ICECCS 2013).
- b) Shelly Sachdeva was awarded
 - o Japanese Government (Monbukagakusho: MEXT) Scholarship for pursuing Ph.D. at Japan from 2009 to 2012.
 - o Gold Medal for topping the M.Tech. program at Guru Jambheshwar University, Hisar in 2004.
- c) Ankita Wadhwa was awarded
 - o Chancellor's Gold Medal for topping the M.Tech./MBA program at Delhi Technological University in 2013
 - o Vice Chancellors Gold Medal for topping the M.Tech(IT) program at Delhi Technological University in 2013
 - o Gold Medal for topping the B.Tech(IT) program GGSIP University in 2011.
- d) Sanchika Gupta was awarded Gold Medal for topping the M.Tech. program at Thapar University in 2010.

Doctoral / post doctoral fellows:

- a) Divakar Yadav, A4U post doctoral fellowship of amount 25000 Euro.

Students:

- i. In the last few years, more than 15 students have qualified for prestigious Google Summer of Code(GSoC) program. In this program students are selected for a summer project under Google nominated mentors. Till 2013, Google gave a scholarship of US\$ 5,000/- to each selected student which has now been increased to US\$ 5,500/-. Year wise list of these students is as follows: Ankur Saxena – 2009; Vaidik Kapoor – 2011; Ankur Anand, Ashish Dubey, Atri Sharma, Akash Sanghi, Udit Jaggi – 2012; Hardik Juneja, Pragun Bhutani, Praveen Singh, Akshit Agarwal, Gaurav Sehravat – 2013; Hardik Juneja, Divyam Rastogi, Rohit Dua – 2014; Alok Pandey – 2015.
- ii. For the last many years, many of our students have been doing

reasonably well at ACM ICPC (Inter College Programming Contest) as well as several other such contests.

iii. Many of our students have been consistently performing well at various national levels Robotics competitions.

iv. Some of recent accomplishments of our students are as follows:

- Shubham Dhingra, Shubham Rastogi, Rishabh Jain achieved the 2nd rank at MindSweeper event (First Round – Online Programming Contest) held as a part of Cognizance Zonals, IIT Roorkee, 2015
- Dhananjay Tomar and Abhishek Prasad achieved the 1st position at the Programming Quiz organized at Grape City, Noida in 2014
- Anshit Agarwal and Hitesh Sethi achieved the 2nd position at the Programming Quiz organized at Grape City, Noida in 2014
- Shivam Khandelwal and Tanmay Dutta achieved the 3rd position at the Programming Quiz organized at Grape City, Noida in 2014
- Dhananjay Tomar, Abhishek Prasad, and Hitesh Sethi achieved the 155th position at ACM ICPC Asia Amritapuri Site Regionals in 2014
- Anshit Agarwal and Ayush Garg achieved 1st position in Autonomous Robotics event at IIT Bombay Zonals in 2013
- Deepesh Gupta, Vasu Raj Agarwal, Utkarsh Mathur, and Shailjakant Pandey achieved 1st position in Manual “RoboSoccer” event at MNIT in 2013
- Akshit Agarwal, Ankit Agarwal, and Vibhor Garg achieved the 156th position at ACM ICPC Asia Amritapuri Site Regionals in 2013
- Abhishek Prasad, Dhananjay Tomar, and Suneet achieved the 50th position at ACM ICPC Asia Kanpur Site Regionals in 2013
- Poojit Sharma, Anant Agarwal, and Hari Krishna Gupta achieved the 26th position at ACM ICPC Asia Amritapuri Site Regionals in 2012
- Abhishek Prasad, Abhishek Mittal, and Arpit achieved the 175th position at ACM ICPC Asia Amritapuri Site Regionals in 2012

v. Our student, Amisha Khera, received following awards:

- Google India Women in engineering, 2009: she was among the 8 female students chosen from all over India.

- Eiffel Scholarship Program, 2008: she was among the 5 students chosen from all over India by French Ministry for Foreign Affairs for innovation in research area.

30. **Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

S.No.	Details
1.	CyberSrishti– An IT symposium on 4 June, 2015 Funding Agencies: JIIT Outstanding Participants: Kshitij Aggarwal , Assoc. Architect, Calance Corp., Vipul Khare , Cofounder, RadicalLogix – a cloud based school ERP, and Ankit Agarwal and Akshit Agarwal , Cofounders, Wibe.
2.	IEEE International Symposium on Signal Processing and Information Technology, December 15-17, 2014 Funding Agencies: JIIT & IEEE Outstanding Participants: Andreas Pitsillides , University of Cyprus, Cyprus, S.S. Iyengar , Florida International University, USA, Reda A. Ammar , University of Connecticut, USA, Sartaj Sahni , University of Florida, USA, S. Rajasekaran , University of Connecticut, USA, Christos Douligeris , University of Piraeus, Greece, Rachid Harba , University of Orleans, France, Anibal Ferreira , University of Porto, Portugal, Vinay Kumar Mittal , IIT, Chittor, India, Sanjeev Kubakaddi , ITIE Knowledge Solutions, India, Pascal Bouvry , University of Luxembourg, Christos Xenakis , University of Piraeus, Greece
3.	Workshop on Arduino Based Embedded System from 21-22 Nov, 2014 Funding Agencies: JIIT
4.	Workshop on Social Media Attacks on 12 Sep, 2014 Funding Agencies: JIIT Outstanding Participants: Deep Arora , Director, i3indya Cyber Solutions
5.	7th International Conference on Contemporary Computing (IC3-2014) from 08-10 Aug 2014 Funding Agencies: JIIT Outstanding Participants: Martin Henson , University of Essex, UK, Tirumale K Ramesh , Amrita University, India, Albert Y. Zomaya , University of Sydney, Australia , H. J. Siegel , Colorado State University, USA , Azzedine Boukerche , University of Ottawa, Krithi Ramamritham , IIT Bombay, Prem Kalra , IIT Delhi.
6.	FDP on Embedded System “Theoretical & Practical Aspects” from 28 th July – 2 nd August 2014

	Funding Agencies: JIIT Outstanding Participants: Dhananjay Gadre (NSIT, Delhi)
7.	FDP on Wireless Sensor Networks from 21st – 26th July 2014 Funding Agencies: JIIT
8.	Two Week ISTE-IITB Workshop on Computer Networking from 30 June – 5 July 2014 Funding Agencies: JIIT and MHRD, Govt of India Outstanding Participants: Kameswari Chebrolu , Dept. of CSE, IIT Bombay
9.	ISTE Workshop on Computer Programming by IIT Bombay from 16-21 Jun, 2014 Funding Agencies: JIIT and MHRD, Govt of India Outstanding Participants: Sridhar Iyer and Deepak Phatak
10.	CyberSrishti– An IT symposium from 26 - 27 April 2014 Funding Agencies: JIIT Outstanding Participants: Angad Singh (Inmobi and JIIT alumnus), Jacob Singh (Acquia), Ankit Maheshwari (InnovAccer), Shubhamoy Chakrabarty (Dynofy), Tavish (BaseApp Systems and JIIT alumnus), Kanav Hasija (InnovAccer), Pragun Bhutani (Pixpa and JIIT alumnus), Saurav Tomar (Wecure), Piyush Kumar (MakeMyTrip), Shobha Tyagi (GNOME), Rudraksh (MathHarbor), Gurteshwar Singh (Plivo Inc), Konark Modi (MakeMyTrip), Pravin Kumar Mishra (Runtime Systems), Saleem Ansari (Impetus Technologies Inc), Nikhil Wason (Co-founder-Cardback, JIIT Alumnus), Juhi (Cofounder - Mathharbor), Vineesh (Founder – Qureeus), Yogi Raj (Cofounder – 24 Idea Street, JIIT Alumnus)
11.	Workshops for Industry professionals on MS Excel from 7-12 April, 2014 and 19-26 May, 2014 Funding Agencies: JIIT
12.	Basic Internet and Cyber Security on 3 May, 2014 Funding Agencies: JIIT Outstanding Participants: Deep Arora , Director, i3indya Cyber Solutions
13.	Main Signal and Systems workshop from 2 -12 Jan 2014 Funding Agencies: JIIT and MHRD, Govt of India Outstanding Participants: Vikram M.Gadre , Department of Electrical Engineering, IIT Bombay, Somnath Sengupta , Department of Electronics and Electrical Communication Engineering, IIT, Kharagpur
14.	6th International Conference on Contemporary Computing (IC3-2013) form 08-10 Aug 2013 Funding Agencies: JIIT Outstanding Participants: Yves Robert LIP , ENS Lyon, France,

	Laxmi Narayan Bhuyan , University of California, R. Govindarajan , IISc Bangalore, Srikanth Sundararajan , IIT Bhubaneshwar, Rajat Moona , C-DAC, Pune.
15.	ISTE Workshop on Research methodology in Education technology(RMET-2013) from 02-09 Feb 2013 Funding Agencies: ISTE Outstanding Participants: Sridhar Iyer, Sahana Murthy and Deepak Phatak
16.	Faculty Development Program on Super Attitude for Success on 13th Feb, 2013 Funding Agencies: JIIT Outstanding Participants: Kajal Rastogi and Bharat Bhargava , Training Consultants
17.	ISTE Workshop on Aakash for Education from 10-11 Nov 2012 Funding Agencies: JIIT and MHRD, Govt of India Outstanding Participants: Uday N. Gaitonde, Kannan Moudgalya
18.	5th International Conference on Contemporary Computing (IC3-2012) 6-8 Aug 2012 Funding Agencies: JIIT Outstanding Participants: H. T. Kung , Harvard University, Nageswara S. V. Rao , Oak Ridge National Laboratory, USA, Chandrajit Bajaj , University of Texas at Austin, Alok Choudhary , Northwestern University, USA, Ishwar Parulkar , Cisco Systems, Bangalore, India, Ramesh Hariharan , Chief Technology Officer, Strand Life Sciences, Bangalore, India, Sunil D. Sherlekar , Principal Engineer and Director of Parallel Computing Research at Intel Labs in Bangalore, India, M. Balakrishnan , I.I.T. Delhi.
19.	4th International Conference on Contemporary Computing (IC3-2011) from 8-10 Aug Funding Agencies: JIIT Outstanding Participants: Jitendra Malik , University of California at Berkeley, USA, Paul Mc Kevitt , University of Ulster, Northern Ireland, M P Ranjan , Design Thinker, National Institute of Design, India, Sanguthevar Rajasekaran , BECAT, USA, Arun K Pujari , Sambalpur University, India, Jose D. P. Rolim , University of Geneva, Switzerland, Guna Seetharaman , Principal Engineer, Information Directorate, Air Force Research Laboratory, Rome.
20.	OSS Camp from 27-28 Nov 2010 Funding Agencies: JIIT Outstanding Participants: Ankur Anand and Ankur Saxena
21.	Workshop on conducting Design Science Research in Information Technology 19 Oct 2010 Funding Agencies: JIIT Outstanding Participants: Vijay K. Vaishnavi , Georgia State University

22.	Workshop on Advances in Wireless Sensor Networks from 02-03 Sep2010 Funding Agencies: JIIT Outstanding Participants: Sajal K. Das , Dept. of CSE, University of Texas
23.	3rd International Conference on Contemporary Computing (IC3-2010) 9-11 Aug 2010 Funding Agencies: JIIT Outstanding Participants: Amit Singhal , Fellow Google Inc., Arvind , Massachusetts Institute of Technology, Manish Gupta , Director of IBM Research - India, Gautam Shroff , TCS Innovation Labs - Delhi, S.N Maheswari , IIT, Delhi, Sanjay Ranka , University of Florida, Vijay K. Vaishnavi , Georgia State University.
24.	IUCEE Workshop on Distributed OS from 28 Jun- 2 July 2010 Funding Agencies: JIIT Outstanding Participants: Prashant Shenoy , Univ. of Massachusetts Amherst, USA

31. **Code of ethics for research followed by the department:**

The department follows the institute's code of research ethics. In addition, the faculty and scholars are advised to follow IEEE/ACM code of ethics for software engineers.

32. **Student profile programme-wise:**

Name of Programme	Applications received*	Selected		Pass Percentage	
		Male	Female	Male	Female
B. Tech. (CSE)					
2007-11	22229	136	54	132 (97.06)	54 (100)
2008-12	32017	112	53	112 (100)	53 (100)
2009-13	31210	162	58	152 (93.83)	57 (98.28)
2010-14	26150	248	92	224 (90.32)	86 (93.48)
B. Tech. (IT)					
2007-11	22229	69	18	68 (98.55)	18 (100)
2008-12	32017	65	28	60 (92.31)	26 (92.86)
2009-13	31210	53	30	50 (94.34)	30 (100)
2010-14	26150	61	35	58 (95.08)	34 (97.14)
DUALM-CSE					
2006-11	19372	29	3	29 (100)	3 (100)
2007-12	22229	52	7	51 (98.08)	7 (100)
2008-13	32017	33	16	29 (87.88)	16 (100)
2009-14	31210	12	4	12 (100)	2 (50.00)
Dual Degree B.Tech- M. Tech. (CSE)					
2006-11	19372	NA	NA	NA	NA

2007-12	22229	NA	NA	NA	NA
2008-13	32017	29	13	28 (96.55)	13 (100)
2009-14	31210	2	0	2 (100)	0 (NA)
M. Tech. #(CSE)					
2009-11	445	20	11	20 (100)	11 (100)
2010-12	1310	15	14	13 (86.67)	13 (92.86)
2011-13	1943	6	7	6 (100)	7 (100)
2012-14	1600	11	17	10 (90.91)	17 (100)
Ph.D.					
Upto 2014	741	42	57	No. awarded: No. Continuing: No. Discontinued:	9 (6M, 3F) 56 (20M, 36F) 34 (16M, 18F)

*Applications for the UG programmes are received without any choice of the programme. The choice of the programme is exercised by the candidates during counselling.

33. Diversity of Students

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.Tech. (CSE)				
2011	NA	1.02	98.98	NIL
2012	NA	1.55	98.23	0.22
2013	NA	1.11	98.70	0.19
2014	NA	2.43	97.20	0.37
B.Tech. (IT)				
2011	NA	1.15	94.25	4.60
2012	NA	1.77	96.46	1.77
2013	NA	3.39	93.22	3.39
2014	NA	NIL	95.00	5.00
DUALM-CSE				
2011	NA	NIL	NIL	NIL
2012	NA	NIL	NIL	NIL
2013	NA	NIL	NIL	NIL
2014	NA	NIL	NIL	NIL
Dual Degree B.Tech- M. Tech. (CSE)				
2011	NA	4.35	95.65	NIL

2012	NA	NIL	100	NIL
2013	NA	7.14	92.86	NIL
2014	NA	NIL	100	NIL
M. Tech. (CSE)				
2009-11	NIL	80.65	19.35	NIL
2010-12	NIL	37.93	62.07	NIL
2011-13	NIL	61.54	38.46	NIL
2012-14	NIL	42.86	57.14	NIL
2013-15	4.00	64.00	32.00	NIL
2014-16	NIL	60.00	40.00	NIL
Ph.D. (CSE)				
2011	NIL	28.57	71.43	NIL
2012	NIL	6.25	87.50	6.25
2013	NIL	20.00	80.00	NIL
2014	25.00	6.25	68.75	NIL

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

GRE: More than 100 (batches who appeared in these exams in last 4 years).

CAT/MAT/XAT/GMAT: More than 100 (batches who appeared in these exams in last 4 years).

GATE: More than 40.

Civil Services, Defense Services, Central Govt., and PSU Examinations: approx. 10.

35. **Student progression**

Student progression	Percentage against enrolled
UG to PG	20-25% (including IIIT's Dual Degree programs)
PG to M.Phil.	NIL
PG to Ph.D.	Around 15%
Ph.D. to Post-Doctoral	12.5%
Employed	
Campus selection	Nearly 90%
Other than campus recruitment	Nearly 10%
Entrepreneurs	01%

36. **Diversity of staff**

*For Ph.D., percentage is calculated out of total Ph.D. degree holders and Percentage of PG is calculated out of total strength of the Department.

Percentage of faculty who are graduates	PG	Ph.D.
of the same university	3.3%	33.3%
from other universities within the State	10.1%	0%
from universities from other States	84.2%	59.3%
universities outside the country	2.2%	7.4%

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

14 faculty members have been awarded Ph.D.

38. **Present details of departmental infrastructural facilities with regard to**

- a) **Library:** Department uses the Central Learning Resource (Central Library)
- b) **Internet facilities for staff and students:** All faculty and students are provided Internet and WIFI facility.
- c) **Total number of class room:** 49 Lecture Theatres/ Class Rooms and 42 Tutorial Rooms of the Institute are shared with other departments
- d) **Class rooms with ICT facility:** 40 Lecture Theatres/ Class Rooms.
- e) **Students' laboratories:**

Laboratory	Location	L A N	P C	Power backup	Capacity	Display Board	White Board
Sector-62							
CL1-A	ABB-III	Y	Y	Y	30	Y	Y
CL1-B	ABB-III	Y	Y	Y	30	Y	
CL1-C	ABB-III	Y	Y	Y	30	Y	Y
CL1-D	ABB-III	Y	Y	Y	30	Y	Y
CL2 -A	ABB-III	Y	Y	Y	30	Y	Y
CL2 -B	ABB-III	Y	Y	Y	30	Y	
CL2 -C	ABB-III	Y	Y	Y	30	Y	Y
CL2 -D	ABB-III	Y	Y	Y	30	Y	Y
CL3 -A (under development)	ABB-III	Y	Y	Y	30	Y	Y
CL3 -B (under	ABB-III	Y	Y	Y	30	Y	

development)							
CL4-A	ABB-III	Y	Y	Y	30	Y	Y
CL4-B	ABB-III	Y	Y	Y	16	Y	Y
MML-A	ABB-I	Y	Y	Y	30	Y	Y
MML-B	ABB-I	Y	Y	Y	30	Y	
MML-C	ABB-I	Y	Y	Y	30	Y	Y
MML-D	ABB-I	Y	Y	Y	28	Y	
Sector-128							
CL1-A	Block A	Y	Y	Y	30	Y	Y
CL1-B	Block A	Y	Y	Y	30	Y	
CL1-C	Block A	Y	Y	Y	30	Y	Y
CL1-D	Block A	Y	Y	Y	25	Y	
CL2-A	Block A	Y	Y	Y	30	Y	Y
CL2-B	Block A	Y	Y	Y	30	Y	Y
CL2-C	Block A	Y	Y	Y	30	Y	Y
CL3-A	Block B	Y	Y	Y	32	Y	Y
CL3-B	Block B	Y	Y	Y	33	Y	Y
MML	Block B	Y	Y	Y	35	Y	Y
MPC Lab	Block B	Y	Y	Y	35	Y	Y
Project Lab	Block B	Y	Y	Y	20	N	Y

f) **Research laboratories:** CSE and IT department labs have 700+ PCs and state of the art IT-infrastructure for research. The hardware devices and software are used for both teaching as well as research activities.

39. List of doctoral, post-doctoral students and Research Associates

i. From the host institution/university

- Doctoral Degree (Awarded)
 1. Sangeeta Yadav
 2. Tribhuwan Kumar Tiwari
 3. Suma Dawn
 4. Manish Kr. Thakur
 5. Chetna Dabas
- Doctoral Degree (Pursuing)
 1. K. Rajalakshmi
 2. Minakshi Gujral
 3. Prakash Kumar
 4. Shikha Jain
 5. Gagandeep Kaur
 6. Arti Jain

7. Mukta Goyal
8. K.Vimal Kumar
9. Hema N
10. Dhanalekshmi G
11. Adarsh Kumar
12. Indu Chawla
13. Kavita Pandey
14. Santosh Kumar Verma
15. Archana Purwar
16. Anubhuti Roda Mohindra
17. Himanshu Agrawal
18. Pawan Kumar Upadhyay
19. Purtee Jethi
20. Sangeeta
21. Arpita Jadhav Bhatt
22. Sakshi Agarwal
23. Parul Agarwal
24. Amanpreet Kaur
25. Pulkit Mehndiratta
26. Sudhanshu Kulshrestha
27. Shweta Kaushik
28. Honey Jindal
29. Anjali
30. Raju Pal
31. Himanshu Mittal
32. Avinash Chandra Pandey
33. Gaurav Kumar Nigam
34. Niyati Aggarwal

ii. From other institutions/universities

- Doctoral Degree(Awarded)
 1. Harshvardhan
 2. Pooja Gupta
 3. Namita Gupta
- Doctoral Degree(Pursuing)
 1. P Raghu Vamsi
 2. Payal Khurana Batra

3. Anand Kumar Gupta
4. Priya Mishra
5. Neerja Negi
6. Saurabh Kumar Srivastava
7. Jitendra Kumar Seth
8. Anita Sahoo
9. Neetika Jain
10. Priyanka Chandani
11. Vivek Arya
12. Shivani Batra
13. Shelly
14. Poornima Mehta
15. Madhu Saluja
16. Meeta Gupta
17. Seema Rani
18. Sumit Sharma
19. Anu
20. Satyapal Jee Kaushal
21. Asmita Yadav

40. **Number of post graduate students getting financial assistance from the university.**

Year	M.Tech.	Ph.D.
2014-15	22	07
2013-14	17	04
2012-13	12	03
2011-12	13	01

41. **Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

The emerging trends in industry, research, government policies, computing education, recommendations of the professional bodies, and IIIT management's directives motivate and guide the department to design new programs. International and nationally renowned academicians from many leading institutes and industry professionals including our alumni are consulted while conceptualising and designing new programs or revising the curricula of existing programs. The latest recommendations of professional bodies, especially ACM and IEEE, and also the recent curriculum trends in leading international and Indian universities are given due considerations in designing and revising our curriculum. All the

faculty members are requested to give their suggestions and finally the meeting of the board of studies including external experts is held for reviewing the curriculum. For example, following external experts and alumni have provided their suggestions and feedback for the ongoing curriculum exercise for designing new curriculum for B.Tech. (CSE/IT) programs:

- 1) Prof. Sartaj Sahni, Fellow IEEE, ACM, and AAAS, University of Florida, USA
- 2) Prof. Rajeev Sangal, Director, IIT BHU
- 3) Prof. Prashant Shenoy, Fellow IEEE, University of Massachusetts, USA
- 4) Prof. S.K. Gupta, IIT Delhi
- 5) Mr. Mukul Jain, Co-founder and COO, MTree, Noida
- 6) Mr. Anoop G. Prabhu, Co-founder, Kritical SecureScan
- 7) Mr. Rishabh Jain (Alumnus of IIIT), Pursuing Ph.D. at USC, USA
- 8) Mr. Nikhil Wason (Alumnus of IIIT and Columbia University), Cofounder, Cardback, Noida
- 9) Mr. Saurabh Jain (Alumnus of IIIT), Landis & Gyr, Noida
- 10) Mr. Saaranish Bagga (Alumnus of IIIT), Microsoft, Hyderabad
- 11) Mr. Priyank Singh (Alumnus of IIIT and Columbia University), Microsoft, USA
- 12) Mr. Manu Nahar (Alumnus of IIIT and CMU), PwC, UK
- 13) Mr. Praful Agrawal (Alumnus of IIIT and IIT Delhi), pursuing Ph.D. at University of Utah, USA
- 14) Mr. Puneet Singh (Alumnus of IIIT and University of Buffalo), USA
- 15) Mr. Sameer Bagga (Alumnus of IIIT and University of Buffalo), FactSet, USA
- 16) Mr. Siddharth Gulati (Alumnus of IIIT), Cadence, Noida

The programme M.Tech(ITE) was started in 2014. Following external experts were consulted in the process:

- 1) Prof. Sartaj Sahni, University of Florida, USA
- 2) Prof. Dinesh Manocha, University of North Carolina, Chapel Hill, USA
- 3) Prof. Vasudev Verma, Dean (R&D), IIIT Hyderabad, CEO, IIITH Foundation & co-founder SETU Software Systems Pvt. Ltd.
- 4) Mr. Mukul Jain, Co-founder and COO, MTree, Noida
- 5) Mr. Arvind Jha, Co-founder, Pariksha labs, Gurgaon
- 6) Mr. Rajeev Razdan, Founder, Technofast Consulting Ltd, UK
- 7) Mr. Ajay Goel, Assistant VP (Engg.), Aricent
- 8) Dr. Abhinav Mathur, Chief Strategy and Technology Officer, Spice Global, Noida

- 9) Mr. Shiv Kumar, Senior Manager (L&D), Aricent
- 10) Mr. Nikhil Wason, Alumnus of IIIT and Columbia University, Cofounder, Cardback, Noida
- 11) Mr. Siddharth Batra, Alumnus of IIIT and Stanford University, Twitter, USA (Co-founder, Mine)
- 12) Mr. Umesh Sachdeva, Alumnus of IIIT, Co-founder, Uniphore, Chennai
- 13) Mr. Akshay Agarwal, Alumnus of IIIT, Co-founder, Scrapbotics, New Delhi
- 14) Mr. Deepak Singh, Alumnus of IIIT, Co-founder, YatraFinder, Gurgaon and Noida

The programme M.Tech (CSE with specialisation in Information Security) was started in year 2014. Following experts were consulted in the process:

- 1) Dr. K.K. Bajaj, Data Security Council of India
- 2) Dr. Vikram Asnani, Data Security Council of India
- 3) Dr. Gaurav Gupta, Joint Director at DeitY, Delhi
- 4) Dr. Kannan Srinathan, IIIT Delhi
- 5) Dr. Bezuwada Bruhaveswar, IIIT Hyderabad
- 6) Prof. Bimal Roy, ISI Kolkatta

The M.Tech. (CSE) program was revised in year 2013. Following were consulted in the process:

- 1) Prof. Rao Vemuri, University of California, Davis, USA
- 2) Prof. Sartaj Sahni, University of Florida, USA
- 3) Prof. Rajeev Sangal, Director, IIT (BHU)
- 4) Prof. Pankaj Jalote, Director, IIIT Delhi
- 5) Prof. SK Gupta, IIT Delhi
- 6) Prof. Sushil K. Prasad, Georgia State University, USA
- 7) Prof. Manish Parashar, Rutgers University, USA
- 8) Prof. Dinesh Manocha, UNC Chapel Hill, USA
- 9) Prof. Prem Kalra, IIT Delhi
- 10) Prof. Vasudev Verma, Dean, IIIT Hyderabad
- 11) Dr. Sumantra Dutta Roy, IIT Delhi
- 12) Mr. Mukul Jain, COO, MTree, India (VP, ACM NCR chapter; regular employer of our students)
- 13) Mr. Ajay Goel, AVP, Engineering, Aricent, Gurgaon
- 14) Mr. Sandesh Goel, Technical Leader, CISCO, India (inventor with 20+ patents)
- 15) Mr. Siddharth Batra, Alumnus of IIIT and Stanford University, Entrepreneur, USA.

42. Does the department obtain feedback from

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

Yes. The feedback is taken through regular discussions, meetings and emails.

b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The feedback from students is taken at the end of each semester and the remarks are conveyed to faculty for corrective steps.

c) Alumni and employers on the programmes offered and how does the department utilize the feedback?

The department keeps a regular contact with the alumni. A large number of alumni, students and faculty members are connected with each other through social media. Often the faculty also meets the recruiters to get their feedback on students' performance. Their feedback helps us in formulating and evolving our corrective strategies. The impact of our response to such feedback can be gauged from the fact that over the years, gradually the number of our students getting selected for high quality technical jobs has increased significantly.

Online feedback collection mechanism has been introduced through IQAC.

43. List the distinguished alumni of the department (maximum 10).

S.No	Name, Year of Graduation from IIIT, Achievements and current affiliations
1.	Dr. Amit Kr. Pandey , 2005 Ph. D from French National Centre for Scientific Research His PhD thesis was recognised as one of the top 3 in the EU in this area. Working at Aldebaran Robotics, France
2.	Dr. Rishabh Jain , 2005 Ph. D in Computational Neuroscience, University of Southern California, working at Laboratory for Neural Computation, USC, Los Angeles, USA
3.	Prakash Gupta , 2005 MS (USC), Google, USA
4.	Abhishek Gupta , 2005 MS(Cornell University), Google, USA
5.	Siddharth Batra , 2007 MS(Stanford University), Twitter, USA
6.	Nikhil Wason , 2007 MS(Columbia University),

	Co-founder Cardback, New Delhi
7.	Priyank Singh , 2007 MS(Columbia University), Microsoft, USA
8.	Vipul Khare , 2013 Founder Radical Logix, Noida
9.	Atri Sharma , 2014 Assistant Vice President (Data Integration) , Barclays, Bangaluru

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Department has several technical and visual arts hubs which organizes special lectures / workshops and seminars on regular basis. The main hubs working in department for student's enrichment are: (a) Knuth – The Programming Hub (b) Microcontroller Based System and Robotics Hub (uCR) (c) Multimedia Development (d) Graphic Design and Animation. Details of student enrichment programmes are given in Annexure-VI/CSE.

45. List the teaching methods adopted by the faculty for different programmes.

- Interactive lectures using various aids e.g., Black/White board, computer presentation, Visualizer, etc.
- Small group tutorials and Assignments
- Laboratories
- Project based learning through mini, minor and major Projects
- Industrial internship
- Collaborative Teaching and Learning
- Cross-level peer mentoring
- Partially Flipped Classroom and Guided Reading
- Report writing and Seminars
- Technical competitions and large group Hackathons
- Participation in Conference, Guest lectures, and industry conducted workshops
- 24x7 academic connectivity of faculty with class using social media and other web services
- Use of online educational resources as supplements
- Regular organisation of various technical events related to programming, robotics, multimedia, game design, web design, etc., comprehensive IT symposium- Cyber Srishti.

For example, several activities and events were organized during

the Cyber Srishti held on 26-27 April, 2014 - Open Source Developers Conference (OSDConf), Entrepreneur's Speak, Students Project Exhibition, Embedded Programming Competition, Execute - A Programming Competition, and Web Designing Competition. More than 20 talks on the themes of open source software and also IT entrepreneurship were delivered by young industry professionals and IT entrepreneurs. Another 5 talks were delivered by engineering students of different institutes. Around student 110 projects were exhibited. As part of OSDConf, more than hundred students participated in collaborative programming activity, Hackathon, for more than twelve hours under the mentorship of many members of IIIT alumni. Around 400 students participated in three different competitions.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department continuously monitors and ensures that programme objectives are met and learning outcomes are achieved through following methods:

- a) Continuous evaluation of students' progress through their performance in
 - Written exams
 - Assignments
 - Projects
 - Presentations
 - Reports
- b) Feedback from the recruiters and employers
- c) Feedback from the alumni

The achievements of the programme objectives is reflected through the following:

- a) Performance in internal as well as external competitions including online ranking, e.g., HackerRank, Codechef, etc.
- b) Acceptance of students in higher education programs at world's top universities including IITs and IIMs.
- c) Acceptance of M.Tech. students as Ph.D. scholars at IIT and NIT and as faculty members at various universities.
- d) A good number of publications with students as co-authors.
- e) Acceptance of students in top quality technical companies, e.g.,

Microsoft, Google, facebook, Twitter, Amazon, SAP labs, etc., demanding very high level of technical competence.

- f) Nearly 100% placement with multiple offers to a large number of students.
- g) Acceptance of M.Tech. and B.Tech. students as short duration interns at various companies.

A formal academic monitoring system for quality management has been started through IQAC from academic session 2014-15.

47. Highlight the participation of students and faculty in extension activities.

Faculty and students of the department are actively involved in various extension activities organized by JIIT. Details are given in section 3.6 of Self Study Report of the Institute.

48. Give details of “beyond syllabus scholarly activities” of the department.

- Conducting conferences, workshops, seminars, and Faculty Development Programs.
- Conducting expert lectures in various emerging areas.
- Participation of the faculty in conferences/workshops/seminars etc.
- Organisation of several technical events for students
- Helping students in arranging internships, especially for M.Tech. students.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

B.Tech. (CSE) and B.Tech. (IT) programs were accredited by NBA in 2008 for 5 years

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department has contributed new knowledge by developing new techniques for the following:

- Detection of piracy in image, video, and audio data.
- Multi-sensor fusion
- Trust based information security for wireless sensor network.
- Power saving through protocol in wireless sensor network.
- Web crawling
- Cryptography and network security
- Pedagogical engagements and a framework of pedagogic engagements for software development education
- Automated irrigation system Control using real-time weather data

- Indexing of online video lectures

The above is reflected in the publications and theses produced by the Department as below:

No.	Name of the Event	2010	2011	2012	2013	2014	2015	Total
1.	Research Papers							
	a. International	53	42	58	77	96	31	357
	b. National	1	0	0	0	0	0	1
2.	Book Chapters	1	2	0	1	0	0	04
3.	Books	2	0	0	1	0	0	03

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Large and Well diversified Faculty Resource
- A large number of well diversified courses
- High Emphasis on Learning by Doing
- Very strong alumni network
- Active engagement in Research Activity

Weaknesses:

- Limited impact of Research
- Limited industry institute interaction and collaboration
- Weak outreach programs
- Weak incubation facility
- Limited international employment opportunities

Opportunities:

- Research
 - a. Leverage the international network developed in last decade to develop few large scale collaborative world changing research projects involving several faculty members, Ph.D. scholars, and other students
 - b. Grow as a highly respected research based department that has over 50% faculty members with Ph.D., participation of visiting and adjunct professors, around 25 full time Ph.D. scholars, and 10-15 post doctoral fellows.

- c. Offer 5-10 interdisciplinary postdoctoral research opportunities in collaboration with other interested sister departments.
- Industry interaction
 - a. Hold regular brainstorming sessions among faculty and industry experts
 - b. Facilitate industry sabbaticals for the faculty
 - c. Facilitate industry internships for the Ph.D. scholars
 - d. Engage Ph.D. scholars to work on industry sponsored projects
 - e. Every year, incubate 5-10 IT start-ups involving students and faculty.
- Extension and outreach programs: Through our outreach/extension activity, significantly contribute in the national skill development mission by providing skill based vocational training to few hundred persons every year.
- Education: leverage the size of our department to create very high quality world class educational experience to our students in terms of curricula, pedagogy, assessment, internships, and placement opportunities

Challenges:

- Generate and sustain the motivation and commitment for growing as a world class department in terms of research, education, extension, and incubation activities.
- Generating funds for undertaking high quality world-changing research, funding a large number of full time Ph.D. scholars and post doctoral fellows, and also for incubating few start-ups every year.
- Attracting and retaining committed high quality researchers as faculty members and/or research scientists.
- Motivating the faculty members to synergise their energy to commit to work on large scale collaborative and world-changing research projects involving several faculty members.
- Designing and launching interdisciplinary research projects and programs of a large variety.

52. Future plans of the department.

- a) Significantly expand and strengthen our collaboration with industry as well as also other universities in multiple ways so as to develop it as a distinguishing aspect of our academic programs, research, and outreach activity.

- b) Initiate few large size collaborative research projects integrating a minimum of two knowledge areas of computing involving 3-5 Ph.D. qualified faculty members/post-doc fellows and around 8-10 Ph.D. scholars/students as active contributors. In order to promote interdisciplinary work, at least one of these projects will also involve faculty members from other departments of the institute.
- c) Promote entrepreneurial activity among our students and alumni and active contribute to help incubate 3-5 new IT ventures every year.
- d) Intensify the educational usage of web technology, contribute a significant amount of open educational resource on the web, and also develop innovative models of pedagogical engagements for facilitating deeper learning in our students. Expand and strengthen our faculty development program for ours as well as other institutes' faculty.
- e) Through our outreach/extension activity, significantly contribute in the national skill development mission by providing skill based vocational training to few hundred persons every year.

List of Collaborative Publication

National Collaboration

1. Madhulika Bhatia, Abhay Bansal, **Divakar Yadav**, and Priya Gupta, "Proposed Algorithm to Blotch Grey Matter from Tumored and Non Tumored Brain Images", Indian journal of Science and technology, Vol. 8(17), ISSN: 0974-6846 (print) ISSN: 0974-5645 (Online) pp. 1-10, 2015, (indexed in ISI Thomson Reuter, Scopus, SJR: 1.3, SNIP: 0.8, H index:18)
2. Madhulika, Bansal Abhay, **Yadav Divakar** and Madhurima, Survey and Comparative Study on Statistical Tools for Medical Images, Advanced Science Letters, Volume 21, Number 1, January 2015, pp. 74-77(4).1.(Indexed in Scopus).
3. **T. K. Tewari, V. Saxena**, J. P. Gupta, "A Digital Audio Watermarking Scheme using Selective Mid band DCT coefficients and Energy Threshold" ,International journal of Speech Technology, Springer US, Vol. 17, Issue 4, pp. 365-371, Dec. 2014 [Indexing :EI(Compendex).. SCOPUS, ACM Digital Library, h index: 14, h5 index: 14, h5 median: 17]
4. **Gagandeep Kaur, Vikas Saxena**, J. P. Gupta, "A Multi Scale Approach to Distinguish Flash Crowds from PDDoS Attacks", International Journal of Information and Communication Technology (IJICT), Inderscience, vol. 6, no. 2, pp. 213-238, 2014. [SCImago H index 3, DBLP, Scopus].
5. Pooja Gupta, **Sandeep Kr Singh, Divakar Yadav** and A. K. Sharma, "An Improved Approach to Rank Web Document", Journal of Information Processing System, vol 9, vo. 2, pp 217-236, June 2013.(h5-index:15,h5-median:16)
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8. **Gagandeep Kaur, Vikas Saxena** and J. P. Gupta, "A Novel Multi Scale Approach for Detecting High Bandwidth Aggregates in Network Traffic", in International Journal of Security and Its Applications (IJSIA), vol7, no5, 2013 IJSIA is indexed in Scopus.

9. Madhulika Bhatia, **Divakar Yadav** et al, "Implementing Edge Detection for Medical Diagnosis of a Bone in Matlab," 5th International Conference on Computational Intelligence and Communication Networks (ICCICN 2011), pp. 270 – 274, 27-29 Sept 2013.(Indexed in Scopus, DBLP, IEEE Explore)
10. **Sandeep K. Singh**, Sangeeta Sabharwal and J.P.Gupta, "A Novel Approach for Deriving Test Scenarios and Test Cases from Events," Journal of Information Processing Systems, vol. 8, no. 2, pp. 213~240, 2012. [Indexed in JIPS are indexed in SCOPUS, DOI, DBLP, EBSCO, Google and Google scholar].
11. **Divakar Yadav**, AK Sharma, Sonia Sanchez-Cuadrado, Jorge Morato, "An Approach to Design Incremental Parallel WebCrawler," Journal of Theoretical and Applied Information Technology, " Vol. 43 No.1, ISSN 1992-8645, pp. 8-29, Sept 2012..(Indexed in Scopus & DBLP, Impact Factor @SJR .17).
12. A.K. Sharma, Pooja Gupta, **Sandeep K. Singh**, "A Novel Context Based Indexing of Web Documents," CSNT, 2012 International Conference on Communication Systems and Network Technologies, May 2012, pp.448-452 [Indexed in IEEE Xplore].
13. **Manish K Thakur**, **Vikas Saxena** and J P Gupta, "A Full Reference Algorithm for Dropped Frames Identification in Uncompressed Video Using Genetic Algorithm", International Journal of Digital Content Technology and its Applications, Vol. 6, No. 20, pp. 562 - 573, November 2012
14. **Manish K Thakur**, **Vikas Saxena** and J P Gupta, "A hybrid video quality metric for analyzing quality degradation due to frame drop", International Journal of Computer Science Issues, Vol. 9, Issue 6, No 1, pp. 78-84, November 2012
15. **Tewari Tribhuwan Kumar**, **Saxena Vikas**, Gupta, J P," A Novel Approach to Generate Watermarks Using Auditory Features for Audio Watermarking", Journal of Theoretical and Applied Information Technology. ISSN 1817-3195 (Online), ISSN: 1992-8645(print). Volume 35, Number 2, Pages 155- 162, January 2012
16. **Kaur G.**, **Saxena V.**, Gupta J.P.,"DDoS Detection with Daubechies", International Conference on Contemporary Computing IC3 2012, Volume 306, pp 395-406,Aug 2012.
17. Sabharwal S., **Singh S.K.**, Gupta, J.P., "Deriving System Complexity Metric from Events and its Validation," in International Journal of Software Engineering and Knowledge Engineering (IJSEKE) Volume: 21, Issue: 8 December 2011, Page: 1097-1121. [Indexed in SciSearch®, ISI Alerting Services ,CompuMath Citation Index® (CMCI®) ,INSPEC

,DBLP ,Bibliography Server ,io-port.net ,Compendex ,Computer Abstracts ,SCOPUS].

18. Pooja Gupta, A. K. Sharma and **Divakar Yadav**, “A Novel Technique for Back-link Extraction and Relevance Evaluation,” *International Journal of Computer Science & Information Technology (IJCSIT)*, Vol 3, No 3, ISSN No.0975-3826, pp. 227- 238, July 2011.(indexed in Inspec, EBSCO, SCIRUS, Google Scholar, DOAJ etc.)
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20. **Singh S.K.**, Sabharwal S., Gupta J.P., “An Event-based Methodology to Generate Class Diagrams and its Empirical Evaluation,” *Journal of Computer Science*, Science Publications, USA, vol. 6. no.11, 2010, pp. 1301-1325. [Indexed in SCOPUS]
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22. **Yadav Divakar**, Sharma, AK, and Gupta, JP, “Users Search Trends on WWW and Their Analysis”, *First International Conference on Intelligent Interactive Technologies and Multimedia*, IIT Allahabad, ISBN: 978-1-4503-0408-5, pp. 61-68, 28-30 Dec 2010. [Indexed in SCOPUS, ACM Digital Library.
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24. **Kaur G., Saxena V.**, Gupta J.P., “Anomaly Detection in Network Traffic and Role of Wavelets”, *Proceedings of International Conference on Computer Engineering and Technology*, Vol 7, pp: 46-51. April 2010, China.
25. **Kaur G., Saxena V.**, Gupta J.P., "Characteristics Analysis of web traffic with hurst index", *WCECS 2010*, Oct 2010.
26. **Singh S.K.**, Sabharwal S., Gupta J.P., “Events-An Alternative to Use Case as starting point in Object-Oriented Analysis,” in *Proc. 2009 Second International Conference on Emerging Trends in Engineering & Technology (ICETET)*, December 2009, pp.1004-1010. [Indexed in IEEE, ACM and DBLP].

27. **Singh S.K.**, Gupta R., Sabharwal S., Gupta, J.P., “Automatic extraction of events from Textual Requirements specification,” in Proc. World Congress on Nature & Biologically Inspired Computing (NaBIC 2009), December 2009, pp.415 – 420. [Indexed in SCOPUS and IEEE]
28. **Singh S.K.**, Sabharwal S., Gupta J.P., “E-XTRACT: A Tool for Extraction, Analysis and Classification of Events from Textual Requirements,” in Proc. 2009 International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom), October 2009, pp.306-308. [Indexed in SCOPUS, IEEE, ACM and DBLP]
29. **Divakar Yadav**, A.K. Sharma and J.P. Gupta, “Topical Web Crawling Using Weighted Anchor Text and Web Page Change Detection Techniques,” WSEAS Transaction on Information Science and Applications, Issue 2, Vo 6, ISSN:1790-0832, pp. 263-275, Jan 2009.1. [Indexed in SCOPUS, Impact Factor @SJR .183]
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1. Sonia sanchez cuadrado, Vicente.palacios, **Divakar Yadav**, Christos dimou and Jorge morato, "Evaluation of Semantic Retrieval Systems on The Semantic Web," Library Hi Tech, Emerald, Vol 31, Issue 4, ISSN: 0737-8831, pp. 638-656, Sept 2013.(Indexed in SCI, Scopus, DBLP, Impact Factor 0.62).
2. **Divakar Yadav**, Sonia Sanchez-Cuadrado, Jorge Morato and Juan Bautista Llorens Morillo, "An Approach for Spatial Search Using SOLR," The 4th International Conference CONFLUENCE 2013, the Next Generation Information Technology Summit, E-ISBN: 978-1-84919-846-2, pp. 202-208, 26th - 27th Sept. 2013.(Indexed in Scopus, IET)
3. Vicente Palacios, Sonia Sanchez-Cuadrado, **Divakar Yadav**, Jorge Morato, and Christos Dimou, "Ontologies Evaluation for a Conceptual Retrieval System of Metadata Schemes: Case Study", Sixth International Conference on Contemporary Computing, ISBN:978-1-4799-0190-6, pp. 472-478, 8-10 Aug, 2013. (Indexed in Scopus, DBLP, and published in IEEE Explore)
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5. **Divakar Yadav**, AK Sharma, Sonia Sanchez-Cuadrado, Jorge Morato, "An Approach to Design Incremental Parallel WebCrawler," Journal of Theoretical and Applied Information Technology, " Vol. 43 No.1, ISSN 1992-8645, pp. 8-29, Sept 2012. (Indexed in Scopus & DBLP, Impact Factor @SJR .17).
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2015

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2. U. Batra, **S. Sachdeva** and S. Mukherjee,” Implementing healthcare interoperability utilizing SOA and data interchange agent”, Health Policy and Technology, Elsevier, Vol 4, Issue 3, pp 241–255, April 2015.
3. **Parmeet Kaur** and Awadhesh Kumar Singh, “Movement-Based Checkpointing and Message Logging for Recovery in MANETs”, *Wireless Personal Communications*, Vol. 83, Issue 3, pp. 1971-1993, 2015.
4. **Parmeet Kaur** and Awadhesh Kumar Singh, Rollback Recovery with Low Overhead for Fault Tolerance in Mobile Ad Hoc Networks, Elsevier Journal of King Saud University - Computer and Information Sciences (published online, Issue in press).
5. **Jain S, Asawa K**, “Programming an Expressive Autonomous Agent”. Expert Systems with Applications, aop Aug 2015 [*indexed in SCIE, Scopus, DBLP, H5 index: 91*]
6. **A. Purwar and S. Singh**, “DBSCANI: Noise- Resistant method for Missing Value Imputation “, Journal of Intelligent Systems, ISSN (online) 2191-026X, ISSN(Print) 0334-1860, July 2015. (published online, Issue in press).
7. Madhulika Bhatia, Abhay Bansal, **Divakar Yadav**, and Priya Gupta, "Proposed Algorithm to Blotch Grey Matter from Tumored and Non Tumored Brain Images", Indian journal of Science and technology, Vol. 8(17), pp. 1-10, 2015,
8. Madhulika; Bansal, Abhay; **Yadav, Divakar**; and Madhurima, Survey and Comparative Study on Statistical Tools for Medical Images, Advanced Science Letters, Volume 21, Number 1, January 2015, pp. 74-77(4).

9. **Mukta Goyal, Divakar Yadav** and Alka Tripathi, "Aggregating evaluation using dynamic weighted intuitionistic fuzzy approach for concept sequencing in an E-learning system", International Journal of Mathematical Modelling and Numerical Optimisation, Inderscience publication, Aug 2015
10. **A Purwar, Sandeep K Singh** "Hybrid prediction model with missing value imputation for medical data", Expert Systems with Applications, 42(13), pp. 5621-5631, August 2015, In Press ,Uncorrected. Proof. SCImago Journal Rank (SJR): 1.487, Impact Factor@JCR(Thomas Reuter): 1.965, h5-index:89, h5-median 118.
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13. Manish Gupta, Girish Parmar, Rajeev Gupta and **Mukesh Saraswat**, "Discrete wavelet transform-based color image watermarking using uncorrelated color space and artificial bee colony", International Journal of Computational Intelligence Systems, Vol. 8, No. 2, pp. 364-380, 2015. (Impact Factor 0.451)
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Neetu Sardana	M Joshi, N Sardana, "An enhanced marking target statement strategy of E-PIE for testability estimation", Contemporary Computing (IC3), 2014 Seventh International Conference on, 346-350	1

Scopus Indexed Citations

Authors	Title	Cited by
Mantri A., Dutt S., Gupta J.P., Chitkara M.	Design and evaluation of a PBL-based course in analog electronics	27
Goecke R., Asthana A., Pettersson N., Petersson L.	Visual vehicle egomotion estimation using the Fourier-Mellin Transform	13
Parwekar P.	From Internet of Things towards cloud of things	10
Dawn S., Saxena V., Sharma B.	Remote sensing image registration techniques: A survey	9
Saxena V., Gupta J.P.	A novel watermarking scheme for JPEG images	9
Tewari T.K., Saxena V., Gupta J.P.	Audio watermarking: Current state of art and future objectives	7
Yadav D., Sharma A., Gupta J.P.	Topical web crawling using weighted anchor text and web page change detection techniques	7
Ho C.K., Singh Y.P., Ewe H.T.	An enhanced ant colony optimization metaheuristic for the minimum dominating set problem	7
Mittal S., Aggarwal A., Maskara S.L.	Application of Bayesian belief networks for context extraction from wireless sensors data	6
Yadav D., Sharma A.K., Gupta J.P.	Parallel crawler architecture and web page change detection	6
Saxena V., Khemka P., Harsulkar A.,	Performance analysis of color channel for DCT based image watermarking scheme	6

Gupta J.P.		
Thakur M.K., Saxena V., Gupta J.P.	A performance analysis of objective video quality metrics for digital video watermarking	5
Prasad Y., Biswas K.K., Jain C.K.	SVM classifier based feature selection using GA, ACO and PSO for siRNA design	5
Rathi M., Rastogi A., Priyadarshini A.	Predictive analysis for customer relationship management	5
Mantri A., Dutt S., Gupta J.P., Chitkara M.	Using PBL to deliver course in digital electronics	5
Singh S.K., Sabharwal S., Gupta J.P.	A novel approach for deriving test scenarios and test cases from events	4
Gupta S., Arora A., Panchal V.K., Goel S.	Extended biogeography based optimization for natural terrain feature classification from satellite remote sensing images	4
Rajalakshmi K., Kumar P., Bindu H.M.	Hybridizing iterative local search algorithm for assigning cells to switch in cellular mobile network	4
Verma M., Thakur M.K.	Architectural space planning using genetic algorithms	4
Tiwari H., Asawa K.	Cryptographic hash function: An elevated view	4
Yadav D., Sharma A.K., Gupta J.P., Garg N., Mahajan A.	Architecture for parallel crawling and algorithm for change detection in Web pages	4
Agarwal A., Thakur M.K.	Sign language recognition using Microsoft Kinect	3
Gupta P., Singh S.K., Yadav D., Sharma A.K.	An improved approach to ranking web documents	3
Mittal S., Gopal K., Maskara S.L.	A versatile lattice based model for situation recognition from dynamic ambient sensors	3
Goyal M.K., Aggarwal A., Gupta P., Kumar P.	QoS based trust management model for Cloud IaaS	3
Anchala, Purohit S.P., Mathur K.C.	Effect of barrier height on linear and nonlinear photoabsorption and refractive index change in Si quantum dots	3
Maikhuri D., Purohit S.P., Mathur K.C.	Quadrupole effects in photoabsorption in ZnO quantum dots	3

Anchala, Purohit S.P., Mathur K.C.	Third harmonic generation in intraband transitions of spherical silicon quantum dots	3
Gupta A., Dev S.	Client satisfaction in Indian banks: An empirical study	3
Jain C.K., Prasad Y.	Feature selection for siRNA efficacy prediction using natural computation	3
Singh S.K., Sabharwal S., Gupta J.P.	Event patterns for object-Oriented requirement analysis	3
Saxena V., Gupta J.P.	Towards increasing the robustness of image watermarking scheme against JPEG compression	3
Morato J.L., Sanchez-Cuadrado S., Dimou C., Yadav D., Palacios V.	Evaluation of semantic retrieval systems on the semantic web	2
Hema N., Kant K.	Optimization of sensor deployment in WSN for precision irrigation using spatial arrangement of permanent crop	2
Batra S., Parashar H.J., Sachdeva S., Mehndiratta P.	Applying data mining techniques to standardized electronic health records for decision support	2
Sahoo A., Chandra S.	L'evy-flight firefly algorithm based active contour model for medical image segmentation	2
Jaggi P.K., Singh A.K.	Log based recovery with low overhead for large mobile computing systems	2
Goyal M.K., Aggarwal A.	Composing signatures for misuse intrusion detection system using genetic algorithm in an offline environment	2
Kumar A., Aggarwal A., Charu	Efficient hierarchical threshold symmetric group key management protocol for mobile Ad Hoc Networks	2
Thakur M.K., Saxena V., Gupta J.P.	A full reference algorithm for dropped frames identification in uncompressed video using genetic algorithm	2
Arora R., Goel S.	Learning to write programs with others: Collaborative quadruple programming	2
Lal S., Sureka A.	Comparison of seven bug report types: A case-study of Google chrome browser project	2
Gupta J.P., Tayal D.K., Gupta A.	A TENGRAM method based part-of-speech tagging of multi-category words in Hindi language	2

Nath M., Arora A.	Content management system: Comparative case study	2
Singh S.K., Gupta R., Sabharwal S., Gupta J.P.	Automatic extraction of events from textual requirements specification	2
Singh S.K., Sabharwal S., Gupta J.P.	Events-an alternative to use case as starting point in object-oriented analysis	2
Yadav D., Sharma A.K., Gupta J.P.	Optical character recognition for printed hindi text in devnagari using soft-computing technique	2
Yadav D., Sharma A.K., Gupta J.P.	Change detection in Web pages	2
Madhulika, Bansal A., Yadav D., Madhurima	Survey and comparative study on statistical tools for medical images	1
Parwekar P., Gupta A., Arora S.	Application of Sensor in Shoe	1
Joshi M., Sardana N.	Design and code time testability analysis for object oriented systems	1
Sahoo A., Chandra S.	Meta-heuristic approaches for active contour model based medical image segmentation	1
Vamsi P.R., Kant K.	Sybil attack detection using sequential hypothesis testing in wireless sensor networks	1
Vamsi P.R., Kant K.	Systematic design of trust management systems for wireless sensor networks: A review	1
Manjulata A.K.	Survey on lightweight primitives and protocols for RFID in wireless sensor networks	1
Madhulika, Yadav D., Madhurima, Gupta P., Kaur G., Singh J., Gandhi M., Singh A.	Implementing edge detection for medical diagnosis of a bone in matlab	1
Patel S.	Performance analysis and modeling of congestion control algorithms based on active queue management	1
Mehta S.	Bio-inspired approach to solve chemical equations	1
Sinha A., Lobiyal D.K.	Performance analysis of data aggregation for overlapping clusters in heterogeneous sensor network	1

Kaur G., Saxena V., Gupta J.P.	A novel multi scale approach for detecting high bandwidth aggregates in network traffic	1
Chawla I., Singh S.K.	Performance evaluation of VSM and LSI models to determine bug reports similarity	1
Gupta V., Chauhan D.S., Dutta K., Gupta C.	Requirement reprioritization: A multilayered dynamic approach	1
Parashar H.J., Sachdeva S., Batra S.	Enhancing access to standardized clinical application for mobile interfaces	1
Arora A., Sinha M.	Applying variable chromosome length genetic algorithm for testing dynamism of web application	1
Arora A., Sinha M.	A sustainable approach to automate user session based state machine generation for AJAX web applications	1
Mehta S., Banati H.	Trust aware social context filtering using Shuffled frog leaping algorithm	1
Maringanti H.B., Asawa K., Agarwal N., Agarwal R.	Therapeutic video tagging model	1
Kaur G., Saxena V., Gupta J.P.	DDoS detection with daubechies	1
Tiwari H., Asawa K.	A secure and efficient cryptographic hash function based on NewFORK-256	1
Kumar A., Aggarwal A., Charu	Performance analysis of MANET using elliptic curve cryptosystem	1
Yadav D., Sharma A.K., Sanchez- Cuadrado S., Morato J.	An approach to design incremental parallel WebCrawler	1
Tewari T.K., Saxena V., Gupta J.P.	A novel approach to generate watermarks using auditory features for audio watermarking	1
Jaggi P.K., Singh A.K.	Message efficient global snapshot recording using a self stabilizing spanning tree in a MANET	1
Gupta N., Saxena P.C., Gupta J.P.	Automatic generation of initial value k to apply k-means method for text documents clustering	1
Jain S., Mittal A., Roy S.	Model-based image compression framework for CT and MRI images	1

Dabas C., Gupta J.P.	A cloud computing architecture framework for scalable RFID	1
Thakur M.K., Kumari M., Das M.	Architectural layout planning using Genetic Algorithms	1
Srivastav M., Singh Y., Gupta C., Chauhan D.S.	Complexity estimation approach for debugging in parallel	1
Garg V., Mehrotra R., Agarwal A.	Issues concerned with multimedia content streaming over a peer-to-peer network	1
Singh S.K., Sabharwal S., Gupta J.P.	E-xtract: A tool for extraction, analysis and classification of events from textual requirements	1
Arora R., Goel S.	Software engineering approach for teaching development of Scalable Enterprise Applications	1
Mehta S., Anusha K.	Decision support system for health care specialists: A fuzzy data mining approach	1
Gaur U., Jain A., Goel S.	Towards real-time monocular video-based avatar animation	1

List of Faculty serving in various committees

(a) National committees

Mukesh Saraswat

- National Student's symposium, Mathura, India, 24 Apr, 2010.

(b) International committees

Sanjay Goel

- Digital Heritage, 28 Sep-2 Oct 2015, Spain
- 27th IEEE Conference on Software Engineering Education and Training (CSEE&T), 23-25 April 2014, Austria
- Digital Heritage, 28 Oct-1 Nov, 2013, France
- 26th IEEE Conference on Software Engineering Education and Training (CSEE&T) 19-21 May, 2013, USA
- 25th IEEE Conference on Software Engineering Education and Training (CSEE&T), 17-19 April, 2012, China
- 18th International Conference on Virtual Systems and Multimedia (VSMM), 2-5 Sept, 2012, Italy
- 24th IEEE Conference on Software Engineering Education and Training (CSEE&T), 22-24 May, 2011, Hawaii

Krishna Asawa

- Information systems Design and Intelligent Applications, 2015, West Bengal, India
- International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV), 2015 Meghalaya.
- International Conference on Context-Aware Systems and Applications from 2014 to 2015 Vietnam.
- International Conference on Nature of Computation and Communication, 2014 Vietnam
- International Conference on Computational Bioscience, CompBio 2010, USA
- International Conference on Computer and Communication Technology, 2010, MNNIT, Allahabad

Vikas Saxena

- 2015 International Conference on Signal processing and Application, 16-18 March, 2015, Noida, India
- 3rd IEEE International Advance Computing Conference, February 22-23, 2013 Ghaziabad, India.

- International Conference on Advances in Computing, Communications and Informatics, 22-25 August, 2013 Mysore, India.
- 2013 International Conference on Signal processing and Application, 12-14 Dec, 2013 , Noida, India
- Third International Workshop on Trust Management in P2P Systems, 3-5 Aug, 2012, Chennai, India.
- IEEE-International Conférence on Image Processing Theory, Tools and Applications, 14-17 Oct, Paris, France.
- Third International Conference on Computer and Communication Technology, ICCCT-2012, 23-25 Nov, 2012, Allahabad, India.
- International Conference on Security in Computer Networks and Distributed Systems. 11-12,Oct 2012, Trivandrum, India
- International Conference on Advanced Computer Science Applications and Technologies, 26-28 Nov, 2012. Malaysia.

Divakar Yadav

- 2nd International Conference on Computer, Communication and Control Technology, 21-23 Apr, 2015, Kuching Malaysia.
- 2nd International Conference on Communication and Computer Engineering, Phuket, Thailand, 9-11 June, 2015
- International Conference on Computing, Communication and Automation (ICCCA 2015), Galgotias University, Technically Co-Sponsored by IEEE UP Section, 15-16 May, 2015,
- International Multi Topic Conference 2015 (IMTIC '15), 11-13 Feb, 2015, Mehran University, Jamshoro, Pakistan.
- 4th International Symposium on Emerging Trends and Technologies in Libraries and Information Services(ETTLLIS-2015), Technically sponsored by IEEE UP Section, 6-8 Jan, 2015.
- Advancement in Information Technology International Conference, 29– 31 Dec, 2014 in Bandung, Indonesia.
- The Third International Conference on Data Analytics, 24 – 28 Aug, 2014 - Rome, Italy.
- 5th International Conference Confluence 2014 The Next Generation Information Technology Summit, 25-26 Sept 2014, Amity University, Noida.
- International Conference on Medical Imaging, m-Health and Emerging areas in Communication Systems. 7-8 Nov 2014, Greater Noida.
- Second International Conference on Data Analytics, 29 Sept – 3 Oct, 2013 Porto, Portugal.
- 4th International Conference- Confluence 2013: The Next Generation Information Technology Summit, 26-27 Sept 2013, Amity University, Noida.
- 2nd International Conference on Eco-friendly Computing and Communication Systems (ICECCS), 17-19 Oct 2013, JUIT,

Waknaghat, HP, India.

- First International Conference on Information Systems and Computer Networks (ISCON 2013), 9-10 Mar 2013, GLA University Mathura.
- 3rd IEEE International Advance Computing Conference, 22-23 Feb, 2013 Ghaziabad (UP)-201009, India.
- The First International Conference on Data Analytics, 23-28 Sept, 2012 - Barcelona, Spain.
- International multi-topic conference, Mehran University, Jamshoro, Paksitan, 28-30 Mar, 2012.
- 2nd Annual International Conference on Infocomm Technologies In Competitive Strategies (ICT 2011), 12-13 Sept 2011, Hotel Fort Canning, Singapore.
- 4th WSEAS International Conference on Recent Advances in Computer Engineering and Applications (CEA10), Harward University Cambridge, 27-29 Jan, 2010.

Sandeep Kumar Singh

- 2nd ISCON 2014 - IEEE International Conference on Information Systems and Computer Networks, 01-02 Mar 2014, GLA University, Mathura, India.
- ICDMIC 2014 - IEEE International Conference on Data Mining and Intelligent Computing 2014, 5-6 Sept 2014, IGDTUW, New Delhi, India.
- 2nd International Conference on Eco-friendly Computing and Communication Systems (ICECCS), 17-19 Oct 2013, JUIT, Waknaghat, HP, India.

Shelly Sachdeva

- 17th Portuguese Conference on Artificial Intelligence (EPIA 2015)
- International Conference on Computing, Communication and Automation (ICCCA) 2015
- International Conference on Advances in Communication, Network, and Computing (CNC),2014
- International Conference on Information Technology in Signal and Image Processing ,2014
- International Conference on Advances in Communication, Network, and Computing (CNC), 2013
- International Conference on Information Technology in Signal and Image Processing , 2013
- BMC Medical Informatics and Decision Making (2013)
- International Conference on Advances in Communication, Network, and Computing (CNC), 2012
- International Conference on Advances in Information and Communication Technologies (ICT), 2012

- International Conference on Information Technology in Signal and Image Processing ,2012
- International Conference on Advances in Communication, Network, and Computing (CNC), 2011
- International Conference on Advances in Information and Communication Technologies (ICT) 2011
- DNIS 2011,
- International Conference on Advances in Communication, Network, and Computing (CNC), 2010
- International Conference on Advances in Information and Communication Technologies (ICT), 2010.
- DNIS, 2010.

Mukesh Saraswat

- International Conference on Computing, Communication and Automation (ICCCA 2015)", Noida, India, 15-16 May, 2015.
- International Conference on Communication Systems and Network Technologies (CSNT 2015)", Gwalior, India, 4-6 Apr, 2015.
- International Conference on "Computational Intelligence & Communication Technology (CICT 2015)", Ghaziabad, India, 13-14 Feb, 2015.
- International Conference on "Industrial and Information Systems (ICIIS 2014)", Gwalior, India, 15-17 Dec, 2014.
- International Conference on "Soft Computing for Problem Solving (SocProS 2013)", Noida, India, 26-28 Dec, 2013.
- International Conference on "Information Systems and Computer Networks (ISCON 2013)", Mathura, India, 9-10 Mar, 2013.
- International Conference on "Soft Computing for Problem Solving (SocProS 2012)", Jaipur, India, 28-30 Dec, 2012.
- International Conference on "Bio-Inspired Computing: Theories and Applications (BIC-TA 2012)", Gwalior, India, 14-16 Dec, 2012.
- International Conference on "Information Systems and Computer Networks (ISCON 2012)", Mathura, India, 3-4 Mar, 2012.

Chetna Dabas

- International Conference on Computing, Communication and Automation (ICCCA2015), 15-16 May, 2015 [Technically Co-Sponsored by IEEE UP Section with IEEE Conference Record No. #36179].
- International Conference on Data Mining and Intelligent Computing, ICDMIC-2014 on 5-6 Sept 2014 organized by Indira Gandhi Delhi Technical University for Women (IGDTUW). (Conference technically co-sponsored by IEEE, Delhi Section with the conference record number 33840).

- Second IEEE International Conference on Parallel, Distributed and Grid Computing [PDGC 2012], JUIT, Wagnaghat, 6-8 Dec, 2012.
- WSEAS (World Scientific and Engineering Academy and Society) in 2011.

Dharmveer Singh Rajpoot

- Second International Conference on Information Systems Design and Intelligent Applications—2015 (INDIA-2015), 8–9 Jan, 2015.

Adwitiya Sinha

- IEEE 2015 5th International Conference on Communication Systems & Networking Technologies
- 2012 IEEE Conference on Business, Engineering & Industrial Applications Colloquium
- 2012 IEEE Symposium on Computers & Informatics
- 2011 IEEE Student Conference on Research & Development
- 2011 IEEE Conference on Computer Applications & Industrial Electronics
- 2011 IEEE Symposium on Business, Engineering & Industrial Applications
- 2011 IEEE Symposium on Computers & Informatics
- 2010 IEEE 2nd International Workshop on Mobile Computing & Networking Technologies

Suma Dawn

- 2014 IEEE Colloquium on Humanities, Science and Engineering, 7 -9 Apr 2014, Malaysia.
- 2013 IEEE Symposium on Humanities, Science and Engineering Research (SHUSER), 23 - 26 Jun, 2013, Malaysia
- 2013 IEEE Business Engineering and Industrial Applications Colloquium (BEIAC), 7- 9 Apr ,2013, Malaysia
- 2013 IEEE International Conference on Signal Processing, Computing and Control (ISPCC), 26- 28 Sep, 2013, JUIT Solan, India.
- IEEE 36th International Conference on Signal Processing and Telecommunications, ICSPT 2013, 2-4 Jul, 2013, Czech Republic.
- 2012 IEEE Colloquium of Humanities, Science, and Engineering Research, 3- 4, Dec 2012, Malaysia,
- 2012 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA), 23 - 26 Sep, 2012, Malaysia.
- 2012 IEEE Symposium on Humanities, Science and Engineering Research (SHUSER), 24 - 27 Jun, 2012, Malaysia

Adarsh Kumar

- The 4th International Conference on Electronics, Communications and

Networks, 12-15 Dec, 2014, Beijing, China.

Sangeeta Mittal

- International Conference on Medical Imaging, m-Health and Emerging areas in Communication Systems (MedCom). 7-8 Nov 2014, Greater Noida.

Anuradha Gupta

- Technical Co-Chair, 3rd Security and Privacy Symposium, IIIT - Delhi.

Vimal Kumar. K

- 2nd International conference on Information Systems Design & Intelligent Applications, 2015, Kalyani, India

(c) Editorial Boards

Sanjay Goel

- Editorial Advisory Board member: Ligu Yu (Ed), Overcoming Challenges in Software Engineering Education, IGI Global, 2014, USA

Any other

(i) Editor/Reviewer of books

Krishna Asawa

- Editor, Computer Networks, 1/e By Dave Mayank, Cengage Learning India
- A First Course in Artificial Intelligence, 1e By Deepak Khemani, McGraw-Hill Education 2013.

Vikas Saxena

- Programming in c, McGraw Hill Education, First Edition, Dec 2015, Delhi, India.
- C++ Programming, Jaico Publishing House, First Edition, 2014, New Delhi.
- Object Oriented C++ Programming, First Edition, Jaico Publishing House, 2014, New Delhi.
- Introduction to Digital Image Processing, First Edition, Orient BlcakSwan, New Delhi, India, 2014.

Divakar Yadav

- Operating Systems, University Press 2015.
- Data Structures Using C, Tata McGraw Hill Publications, authored by S. Shahni.

- Introduction To computers and C Programming, Pearson Education, India 2011.

Hema N

- Microprocessors and Microcontrollers, Architecture, Programming and System Design 8085, 8086, 8051, 8096, PHI Learning Publications, authored by Krishna Kant, ISBN-978-81-203-4853-0.

ii. Reviewer in Journals

Vikas Saxena

- Elsevier journal Computer Vision and Image Understanding, 2013, Elsevier, USA.
- Optics Express, USA, 2013, USA

Divakar Yadav

- WSEAS transaction on Computers.

Shelly Sachdeva

- IEEE Transactions on Service Computing (2014)
- Health Policy and Technology (Elsevier Journal)

Mukesh Saraswat

- Journal of Visual Communication and Image Representation
- International Journal of Advanced Intelligence Paradigms
- International Journal of Systems Assurance Engineering and Management
- Journal of Experimental & Theoretical Artificial Intelligence
- Swarm and Evolutionary Computation
- International Journal of Advanced Intelligence Paradigms
- Journal of Computational Science
- Memetic Computing
- Engineering Applications of Artificial Intelligence
- International Journal of Advanced Intelligence Paradigms

Govind P Gupta

- Springer Wireless Personal Communications.
- Springer Wireless Network
- Elsevier Network and Computer Application
- Wiley's Journal of Security and Communication Networks
- Journal of Ad hoc and Sensor Wireless networks

Shikha Mehta

- International Journal of Information Sciences, Elsevier
- International Journal of Swarm and Evolutionary Computation,

Elsevier

Adwitiya Sinha

- Computers & Electrical Engineering Journal, Elsevier, 2013
- Computers & Electrical Engineering Journal, Elsevier, 2012
- Computers & Electrical Engineering Journal, Elsevier, 2011
- 2010 IEEE 2nd International Workshop on Mobile Computing & Networking Technologies

Suma Dawn

- Central European Journal of Geoscience, Publisher: Versita, Feb 2015, Location Versita, 00-951 Warsaw 41, PO Box 8, Poland
- IEEE – Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, Publisher: IEEE Geoscience and Remote Sensing Society, Location:445 Hoes Lane, Piscataway, NJ 08854
- Signal Processing (Elsevier's Journal), Publisher: Elsevier, 2011, 2013, 2014 Location, Elsevier locations. Americas. Brazil. Elsevier Editora Ltda (Corporate Office). Rua Sete de Setembro, 111 15, 16 &17th floor, RJ 200550-006 - Centro, Rio de Janeiro.

Adarsh Kumar

- Electronics Telecommunication Research Institute Journal, ETRI, South Korea.

Faculty Recharging Strategies

Since 2008, the department has been organising an annual international conference on contemporary computing, IC3, in collaboration with University of Florida and Gainesville, USA. Prof. Sartaj Sahni of University of Florida guides the overall process. IC3 focuses on topics that are of contemporary interest to computer and computational scientists and engineers. As per Google Scholar, the current h5 index of the IC3 is 10. This annual conference gives our faculty the opportunity to learn from the eminent researchers and also interact with them and other researchers.

A. Conference/ Workshops/ FDPs organized at IIIT:

1. Two - Week ISTE Short Term Training Programme on Pedagogy for effective use of ICT in Engg. Education, 5-21 January, 2015
2. IEEE International Symposium on Signal Processing and Information Technology (), December 15-17, 2014.
3. International Conference on Contemporary Computing (IC3), August 7-9, 2014.
4. ISTE Workshop on Computer Networking by IIT Bombay (sponsored by MHRD, Govt of India), 30 June -5 July, 2014.
5. ISTE Main Workshop on Computer Programming by IIT Bombay (sponsored by MHRD, Govt of India), June 16-21, 2014. This was preceded by five week long online activity during 11 May-15 June, 2014.
6. Basic Internet and Cyber Security by i3 Indya Technologies Ltd., Delhi, May 3, 2014.
7. FDP on “Embedded System”, 28th July to 2nd August 2014, Around 45 participants. Also had invited talk on “Clock and Power supply considerations in embedded system applications and Physical Interfacing for embedded applications” by Prof. Dhananjay Gadre, Director, TI Centre for Embedded Systems, NSIT, and Delhi.
8. FDP on “Wireless Sensor Networks”, 21- 26 July 2014, Around 60 participants.
9. International Conference on Contemporary Computing (IC3), August 8-10, 2013.
10. ISTE Workshop on Research methodology in Education technology (RMET-2013), 02-09 Feb 2013. ~ 30 Participants. It was conducted by Prof. Sahana Murthy and Prof. Sridhar Iyer.

11. FDP on Super Attitude for Success, Feb 16, 2013, ~ 150 Participants.
12. International Conference on Contemporary Computing (IC3), August 6-8, 2012.
13. ISTE Workshop on Aakash for Education, ~ 40 Participants, 10-11 Nov 2012.
14. International Conference on Contemporary Computing (IC3), August 8-10, 2011.
15. Workshop on “Mobile Peer to Peer Computing” by Prof. Sanjay Madria, Missouri Univ. of Science and Technology, Rolla, USA on March 8, 2011.
16. Workshop on “Cloud Computing” by Accenture on April 23, 2011
17. International Conference on Contemporary Computing (IC3), August 9-11, 2010.
18. Workshop on conducting Design Science Research in Information Technology, by Prof. Vijay K. Vaishnavi, Board of Advisors Professor of Computer Information Systems & Professor of Computer Science Georgia State University, 19 Oct 2010.
19. Workshop on Advances in Wireless Sensor Networks, 02-03 Sep 2010 delivered by Prof. Sajal K. Das, Dept. of CSE, University of Texas.
20. IUCEE Workshop on Distributed OS, 28, by Prashant Shenoy, University of Massachusetts Amherst, 28 Jun- 2 July 2010.
21. IUCEE Workshop on Soft Computing, by Rao Vemuri, University of California, San Diego.
22. Workshop on “Advances in Wireless Sensor Networks” by Prof. Sajal K Das, of University of Texas, Arlington on Sep. 2-3, 2010. (conducted by Anish Arora, Ohio State University)
23. Short course on “Genetic Algorithms” Prof. Rao Vemuri, University of California from 8-10 Nov, 2010.
24. Workshop on “Research Methodology for Computer Science” by Prof. Rao Vemuri, University of California, Davis on Nov. 12, 2010.
25. Mini Conference on “Advanced Artificial Intelligence and Applications”, 11th November, 2010, JIIT.
26. Workshop on “Teaching AI and Related Courses” by Prof. Rao Vemuri, University of California, Davis on Nov. 12, 2010.

B. Expert Talks organized at JIIT

1. Prof. Jeff Yeung, Director of Master of Science Program in Information Technology, (CUHK Business School, Chinese University of Hong Kong) delivered a keynote on “Information Technology in Supply Chain Management”, April 2015.
2. Martin Henson, Professor, University of Essex, UK “From Specification Languages to Wide-Spectrum Logics”, IC3, Aug 2014.
3. Tirumale K Ramesh, Professor, Amrita University, India, delivered a keynote on “Security and Trust- New Challenges to Computing Today in Cyberspace”, IC3, Aug 2014.
4. Albert Y. Zomaya, Professor, University of Sydney, Australia , delivered a keynote on “Adaptable Resource Allocation in Cloud Computing Systems”, IC3, Aug 2014.
5. H. J. Siegel, Professor, Colorado State University, USA , “Energy-Aware Resource Management for Computing Systems”, IC3, Aug 2014.
6. Azzedine Boukerche, Professor, University of Ottawa, delivered a keynote on “Cognitive Cars and Smart Roads- Applications, Challenges and Solutions”, IC3, Aug 2014.
7. Krithi Ramamritham, Professor, IIT Bombay, delivered a keynote on “Parametric reshaping of human figures in images and videos using 3D morphable models”, IC3, Aug 2014.
8. Prem Kalra, Professor, IIT Delhi, delivered a keynote on “Parametric reshaping of human figures in images and videos using 3D morphable models”, IC3, Aug 2014.
9. Andreas Pitsillides, University of Cyprus, Cyprus, delivered a Keynote on “Nature inspired techniques in addressing communication problems”, IEEE ISSPIT, Dec 2014.
10. S.S. Iyengar, Florida International University, USA, delivered a Keynote on “Computational Theory of Distributed Sensor Networks”, IEEE ISSPIT, Dec 2014.
11. Reda A. Ammar, University of Connecticut, USA delivered a Keynote on “Hierarchical Performance Modeling and Analysis of Computer Systems”, IEEE ISSPIT, Dec 2014.
12. Sartaj Sahni, University of Florida, USA delivered a talk on “Network Topology Optimization for Data Aggregation with Splitting”, IEEE ISSPIT, Dec 2014.
13. S. Rajasekaran, University of Connecticut, USA delivered a talk on “Frequent Itemsets Mining on Weighted Uncertain Data”, IEEE ISSPIT, Dec 2014.

14. Christos Douligeris, University of Piraeus, Greece delivered a talk on “A Secure Clustering Scheme for Geographically Routed Wireless Ad Hoc Networks”, IEEE ISSPIT, Dec 2014.
15. Rachid Harba, University of Orleans, France, delivered a talk on “Whittle maximum likelihood estimator for isotropic fractional Brownian images”, IEEE ISSPIT, Dec 2014.
16. Anibal Ferreira, University of Porto, Portugal, delivered a talk on “On the possibility of speaker discrimination using a Glottal Pulse phase-related feature”, IEEE ISSPIT, Dec 2014.
17. Vinay Kumar Mittal IIIT, Chittor, India, delivered a talk on “Preliminary Analysis of Causes of Infant Cry”, IEEE ISSPIT, Dec 2014.
18. Sanjeev Kubakaddi, ITIE Knowledge Solutions, India delivered a talk on “Automatic Segmentation of Optic Disc using Modified Multi-level Thresholding”, IEEE ISSPIT, Dec 2014.
19. Pascal Bouvry, University of Luxembourg, Luxembourg delivered a talk on “ParaMASK: a Multi-Agent System for the Efficient and Dynamic Adaptation of HPC Workloads”, IEEE ISSPIT, Dec 2014.
20. Christos Xenakis, University of Piraeus, Greece delivered a talk on “Bypassing XSS Auditor: Taking Advantage of Badly Written PHP Code”, IEEE ISSPIT, Dec 2014.
21. Prof. Yves Robert from LIP, ENS Lyon, France, delivered a keynote on “An overview of fault-tolerant techniques for high performance computing”, IC3, Aug 2013.
22. Prof. Laxmi Narayan Bhuyan, Distinguished Professor and Chair, Department of Computer Science and Engineering, University of California, delivered a keynote on “Network I/O Acceleration: Removing a Major Bottleneck in the Next Generation Servers”, IC3, Aug 2013.
23. Prof. R. Govindarajan, IISc Bangalore, visited IIIT during IC3 and delivered a keynote on Title: The Role of Accelerators in HPC Systems: Challenges and Opportunities, IC3, Aug 2013.
24. Prof. Srikanth Sundararajan IIT Bhubaneshwar, delivered a keynote on “simple design principals as means to achieve a stable, and scalable online transaction system, leveraging open source components and standard techniques”, IC3, Aug 2013.
25. Prof. Rajat Moona, C-DAC, Pune, delivered a keynote on “Electronic Currency: Are we ready yet?” IC3, Aug 2013.
26. Prof. H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering at Harvard University, delivered a keynote on “Big Data and Compressive Sensing”, IC3, Aug 2012.

27. Nageswara S. V. Rao, Corporate Fellow in Computer Science and Mathematics Division at Oak Ridge National Laboratory, USA, delivered a keynote on “Analytical and Experimental Methods for High-Performance Network Testing” , IC3, Aug 2012.
28. Chandrajit Bajaj, Professor of Computer Sciences at the University of Texas at Austin, delivered a keynote on “Computational Modeling and Visualization in the Biological Sciences” , IC3, Aug 2012.
29. Alok Choudhary, John G. Searle Professor of Electrical Engineering and Computer Science, Northwestern University, USA, delivered a keynote on “Discovering Knowledge from Massive Social Networks and Science Data– Realization of the Fourth Par” , IC3, Aug 2012.
30. Ishwar Parulkar, CTO of Provider Access Business Unit of Cisco Systems, Bangalore, India, delivered a keynote on “Emerging trends in Networking” , IC3, Aug 2012.
31. Ramesh Hariharan , Chief Technology Officer, Strand Life Sciences, Bangalore, India, delivered a keynote on "Data-driven biology and computation", IC3, Aug 2012.
32. Sunil D. Sherlekar, Principal Engineer and Director of Parallel Computing Research at Intel Labs in Bangalore, India, delivered a keynote on “Parallel Computing Goes Mainstream", IC3, Aug 2012.
33. M. Balakrishnan, Professor in the Department of Computer Science & Engineering, I.I.T. Delhi, India, delivered a keynote on " Power Consumption in Multi-core Processors ", IC3, Aug 2012.
34. Jitendra Malik, Arthur J. Chick Professor of EECS, University of California at Berkeley, USA, delivered a keynote on "Image and Video Understanding", IC3, Aug 2011.
35. Paul Mc Kevitt, Chair in Intelligent MultiMedia , University of Ulster, Northern Ireland, delivered a keynote on title: "Intelligent MultiMedia at the Imagineering Quarter” , IC3, Aug 2011.
36. M P Ranjan, Design Thinker, National Institute of Design, India delivered a keynote on “Design for Good Governance: Information & Communication as a Platform for Change”, IC3, Aug 2011.
37. Sanguthevar Rajasekaran, UTC Chair Professor of CSE and Director of BECAT, USA, delivered a keynote on "Computational Techniques for Motif Search"" , IC3, Aug 2011.
38. Arun K Pujari, VC, Sambalpur University, India visited IIIT during IC3 and delivered a keynote on title:” Recent Trends in Consensus Clustering", IC3, Aug 2011.

39. Jose D. P. Rolim, Professor, University of Geneva, Switzerland delivered a keynote on “Energy Balance Mechanisms and Lifetime Optimization of Wireless Networks”, IC3, Aug 2011.
40. Guna Seetharaman, Principal Engineer , Information Directorate, Air Force Research Laboratory, Rome, delivered a keynote on "Intelligent Autonomous Systems: A Layered Architecture in the age of Multicore Processing", IC3, Aug 2011.
41. Dr. Amit Singhal Google, Fellow Google, Inc., delivered a keynote on “Web Search: Challenges and Directions”, IC3, Aug 2010.
42. Arvind, Johnson Professor of Computer Science and Engineering, Computer Science and Artificial Intelligence laboratory, Massachusetts Institute of Technology, delivered a keynote on Mobile Phones and Multicores: Programming Nightmare or Architectural Renaissance “,IC3, Aug 2010.
43. Manish Gupta, Director of IBM Research - India ,Chief Technologist for IBM India/South Asia, delivered a keynote on “Challenges and Opportunities for Innovations in IT based Services” , IC3, Aug 2010.
44. Dr. Gautam Shroff Vice President & Head,TCS Innovation Labs - Delhi ,Tata Consultancy Services, delivered a keynote on “Cloud based Development and Services” , IC3, Aug 2010.
45. S.N Maheswari, Professor of Computer Science at IIT, Delhi, delivered a keynote on “Markov Random Fields, Computer Vision, and Network Flows: A Synthesis”, IC3, Aug 2010.
46. Sanjay Ranka, Professor at University of Florida, delivered a keynote on “In-silico methods for Metabolic Engineering”, IC3, Aug 2010.
47. Vijay K. Vaishnavi, Board of Advisors Professor of Computer Information Systems & Professor of Computer Science Georgia State University, delivered a keynote on “Design Theory Development in Information Technology”, Aug 2010.

C. Participation Conferences/ FDP/ Workshops at other Institutes:

1. Shelly Sachdeva attended and presented poster at Research Showcase,13-14th March 2015.
2. Anubhuti Roda Mahindra attended 3rd Security & Privacy Symposium, IIIT Delhi,13-14th Feb 2015.
3. Anuradha Gupta participated in 3rd Security & Privacy Symposium, IIIT Delhi,13-14th Feb 2015 as a Technical Co-Chairs.
4. Shelly Sachdeva attended 3rd Security & Privacy Symposium, IIIT Delhi,13-14th Feb 2015.

5. Sanjay Goel attended a workshop on ABET, “Volunteer Training: Philosophy, process, and Best practices” by Dr. Michael K J Michigan, Executive Director, ABET, 25th Feb, 2015, NBA, New Delhi
6. Gaurav Nigam attended a Two days Workshop on Network Simulator (NS-2) organised by the Department of CSE, SRM University, Delhi-NCR Campus, Ghaziabad in association with CSI, SRM Chapter held on 29- 30 December 2014.
7. Shelly Sachdeva attended International Conference on Big Data Analytics, IIT Delhi, 20-23 Dec, 2014.
8. Ankur Kulhari attended International Conference on Computational Intelligence and Communication Networks (CICN2014) , Udaipur, India, 14–16 Dec, 2014
9. Sanjay Goel (2014), Developing and Publishing Academic Products, Two sessions on 25th June in a three day TEQIP Workshop on IPR & Ethical Issues in Engineering-Becoming Innovators, 23-25 June, 2014, Organized by Equate India at Noida for faculty participants from few NITs, Aligarh Muslim University, and Sardar Patel College of Engineering.
10. Shelly Sachdeva attended Research symposium, IIIT Delhi, 12 April, 2014.
11. Divakar Yadav (2014) delivered an expert talk on “Information retrieval: basics, challenges and tool”, during AICTE sponsored FDP from 3-12 March, 2014, organized at Krishna Engineering College Ghaziabad.
12. Sanjay Goel, two day workshop, “Facilitating Deep Learning in Computing Education: Some Insights for Practice and Research”, Part of a 2 week long FDP for Computer Science faculty from various universities hosted by University of Goa, 17-18 Jan 2014.
13. Sanjay Goel , two hrs. lecture, “Looking Beyond Bloom: A Pedagogical Framework for Facilitating Deep Learning in Engineering Education”, part of a weeklong FDP for engineering faculty from various institutes in Haryana and NCR hosted by YMCA, Faridabad, 9 Jan 2014
14. Prashant Kaushik attended Intel Code fest, New Delhi, 10 July 2014 .
15. Sudhanshu Kulshrestha attended FDP on Agile Software, Chandigarh, 3-7 Feb 2014.
16. Parmeet Kaur attended IEEE International Advance Computing Conference (IACC), ITM Gurgaon, 21-22 Feb 2014.
17. Indu Chawla attended Microsoft Faculty Symposium, Gurgaon, 26-27 Jun 2014.

18. Anuja Arora attended International Conference on Issues and Challenges in Intelligent Computing Techniques, KIET Ghaziabad, 7-8 Feb 2014.
19. Archana Purwar attended International Conference on Issues and Challenges in Intelligent Computing Techniques, KIET Ghaziabad, 7-8 Feb 2014
20. Vartika Srivastava attended Workshop on Cyber Security IIT Delhi in collaboration with university of Nebraska, IITD-NU Joint, Delhi, 7-8 Feb 2014.
21. Vartika Srivastava, Devpriya Soni, Anuradha Gupta attended IITD-NU Joint Workshop on Cyber Security, IIT Delhi, 7-8 Feb 2014.
22. Anubhuti Mohindra attended Security & Privacy Symposium, IIT Kanpur, 20-22 Feb 2014.
23. Pulkit Mehndiratta attended Security & Privacy Symposium, IIT Kanpur, 20-22 Feb 2014.
24. Rashi Garg attended Mobile Soft'14 Conference, Hyderabad, 2-4 June 2014
25. Rashi Garg attended Security and Privacy Symposium, IIT Kanpur, 20-22 Feb 2014
26. Shudhanshu Kulshrestha attended FDP on Agile Software Systems, Chandigarh, 3-7 Feb, 2014
27. Anuradha Gupta, Rashi Garg attended Research Symposium IIT Delhi, 11-12 April, 2014
28. Harvinder ISTE Main attended Workshop on Computer Programming by NMEICT Organisation-IIT Bombay, 21-26 April, 2014
29. Raju Pal ISTE Main Workshop on Computer Networking by NMEICT Organisation- IIT Bombay, 5-10 May, 2014
30. Sanjay Goel, invited to participate in a day long workshop to design future vision for IIT Delhi, October 2013.
31. Sandeep Kumar Singh Delivered Guest Lecture on "Collective Intelligence" in ISTE approved FDP On Emerging Trends in Engineering Technology and Management (ETIETM'13) at YMCA, Faridabad 5th July 2013.
32. Divakar Yadav attended 4th International Conference CONFLUENCE 2013, the Next Generation Information Technology Summit at Amity University, Noida, 26-27 Sept, 2013.
33. Sangeeta Mittal attended INDOCON 2013, IIT Mumbai, 13 – 15 Dec, 2013.

34. Divakar Yadav attended Workshop on “Machine Learning and Text Analytics” at South Asian University, Delhi, 15-23 Dec, 2013.
35. Hema N attended Qshine 2013,Gautam Buddh University,Greater Noida,11-12 Jan 2013
36. Anuja Arora attended IEEE-International Conference on Recent Trends in information Technology, MIT, Anna University, Chennai, 25-27, July,2013
37. Prakash Kumar attended 4th International Conference CONFLUENCE 2013, the Next Generation Information Technology, Amity University, Noida, 26- 27 September 2013
38. Krishna Kant attended 3rd IFIT International conference on Bioinformatics, MANIT Bhopal, 23-26 Sep, 2013.
39. Anuja Arora attended 4th International Conference CONFLUENCE 2013, the Next Generation Information Technology Summit,Amity University, Noida,26- 27 September 2013.
40. Prakash Kumar attended International Conference on Eco-friendly Computing and Communication Systems (ICECCS 2013), JUIT Waknaghat, October, 2013.
41. Shikha Jain, Arti Gupta attended International Workshop on Machine Learning and Text Analytics South Asian University, Delhi, 15-23 Dec, 2013
42. K.Vimal Kumar attended International Workshop on Machine Learning and Text Analytics South Asian University, Delhi, 15-23 Dec, 2013
43. Divakar Yadav attended 4th International Conference CONFLUENCE 2013, the Next Generation Information Technology Amity University, Noida, 26th- 27th September 2013.
44. Saurabh Kumar Raina attended HiPC, International Conference on High Performance Computing, Bangalore, 17-20 Dec 2013
45. Amanpreet Kaur attended Workshop on “ICARE-2013”,IIIT Delhi, 19th October, 2013
46. Archana Purwar attended Seminar on “Parallel Computing and Multi-core Architectures to handle big data challenges”, Mumbai,18th Oct’ 2013.
47. Amanpreet Kaur attended Workshop on “ICARE-2013”, IIIT Delhi,19th October, 2013
48. Amanpreet Kaur attended Workshop on “Ph.D. workshop for paper writing”, IIIT Delhi, 18th October,2013

49. Chetna Dabas attended Seminar on “Parallel Computing and Multi-core Architectures to handle big data challenges”, South Asia University, Delhi, 18th Oct 2013
50. Chetna Dabas attended International Conference on Emerging trends in Computational and Applied mathematics, ITM University, Gurgaon, 2-4th June 2013.
51. Neetu Sardana attended FDP on High Performance Computing Using Oracle 12c Database, BVICAM, Delhi, 16th November 2013
52. Raju Pal attended Short Term course on Recent Advance in Computer Network and Information Security TEQIP-II Organisation - Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 8-12 July, 2013
53. Sanjeev Patel attended International Conference on Image Information Processing (ICIIP 2013), JUIT Waknaghat, 9-11 Dec, 2013
54. Pulkit Mehndiratta attended International Conference on Big Data Analytics, Mysore, 16-18 Dec, 2013.
55. Anubhuti Roda Mohindra attended 9th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QSHINE 2013), Greater Noida, India, January 11–12, 2013
56. Hema N. attended 9th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QSHINE 2013), Greater Noida, India, January 11–12, 2013.
57. K.Rajalakshmi attended 9th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness, Gautam Buddha University, Greater Noida, India, January 11–12, 2013.
58. Sangeeta attended Indian software engineering conference, ACM, Delhi, 21 - 22 feb 2013.
59. Indu Chawla attended India Software Engineering Conference, ISEC 2013, IIT Delhi, New Delhi, Feb 21-23, 2013.
60. Raju Pal attended 3rd IEEE International Advance Computing Conference (IACC 2013), Ajay Kumar Garg Engineering College, Ghaziabad, India, February 22-23, 2013
61. Suma Dawn attended Workshop on Big Data Analytics, Amity, Noida, 8th March 2013
62. Kavita pandey attended Research workshop for women candidates in engineering Institutions IUCEE, DST, AIMSCS , Hyderabad, 18-20 march , 2013

63. Anuja Arora attended Third International Conference on Computer Science, Engineering and Applications (ICCSEA-2013), Habitat World, Delhi, 24-26 May 2013.
64. Vikas Saxena, Invited speaker in IEEE National workshop on Computer Vision & Image Processing in LNMIIT, Jaipur, 8-9 September 2012.
65. Divakar Yadav attended 2 Days International Workshop on Hive UC3M, GETAFE Madrid (Spain), June 2012.
66. Suma Dawn attended FDP on Information Knowledge Engineering using ANN and MATLAB, IMS Noida, 17 – 18 Aug 12.
67. Adarsh Kumar attended International Conference on Security in Computer Networks and Distributed Systems, Indian Institute of Information Technology and Management-Kerala, Trivandrum, India, 11-12 October 2012
68. Sangeeta Mittal attended Workshop on Cloud Computing & Big Data, Oracle Corporation Delhi, India, 6 Nov 2012.
69. Shikha Mehta attended 12th International Conference on Hybrid Intelligent Systems MIT, Pune, India, 4-7 December, 2012.
70. Shikha Mehta attended 2nd IEEE International Conference on Parallel Distributed and Grid Computing (PDGC), JUIT, Wagnaghat, 7 Dec 2012
71. Indu Chawla attended annual conference ISEC on software Engineering at IEEE Kanpur India, Feb-12.
72. Mukta Goyal attended IEEE Conference on ICTEE” at Amrita University, Kerala, India, Jan-12.
73. Sangeeta Mittal attended One Day Workshop on “Cyber Security Research-using EXata Emulator Eigen Technologies”, New Delhi , India, 21 Feb, 2012
74. Sangeeta Mittal attended One day Workshop on “Android Computing” at TCS Ghaziabad India, 21 April, 2012.
75. Archana Purwar attended 4th International Conference on Electronics Computer Technology 2012 at Kanyakumari , India, Apr-12.
76. Sanjeev Patel attended Workshop on “Cyber Security using EXata Cyber emulator “ India,
77. Alok Aggarwal attended 14th International Conference on Advanced Communication Technology, Republic of Korea, Korea, Feb-12.
78. Pritee attended 2nd International Conference on Computer and Communication Technology (ICCCT), 2011., NIT Allahbad, Allahbad India, Sep-12.

79. Parmeet kaur attended International Conference on Parallel, Distributed Computing technologies and Applications, PDCTA 2011, Tirunelveli India, Sep-12 .
80. Hima Bindu attended Conference COMPUTE-2012, ACM Pune India, Jan-12.
81. Shikha Mehta attended FDP on “Android programming”, Tata Consultancy services, ABES Ghaziabad India, April 24, 2012.
82. Sanjay Goel, A talk on “An Overview of Selected Theories about Student Learning”, three day Indo-US Workshop on Effective Teaching and Learning at College/University Level hosted by IIIT Delhi, 2011.
83. Vimal Kumar, Hima Bindu, Arti Jain attended workshop on Angla Bharti Machine Translation Paradigm at JSS Academy of Technical Education, Noida India, 25 Nov 2011.
84. Hema N attended Workshop on Wireless Sensor networks at JUIT Wagnaghat India, Jul-11.
85. Sangeeta Mittal attended 8th International Conference on Information, Communications and Signal Processing (ICICS) Nanyang Technological University at Singapore ,13-16 Dec 2011.
86. Parmeet kaur attended International conference on advances in Communication Network and Computing, CNC 2011, Bangalore India, 12 Mar 2011
87. Gagandeep Kaur attended One day workshop on Wavelets and its Applications in Signal Processing on 20th April 2011 at IIIT, Noida.
88. Sandeep Kumar Singh attended 4th India Software Engineering Conference, held in Feb 23-26, 2011, Thiruvananthapuram, India.
89. Tribhuwan Kumar Tewari, Hima Bindu attended a two day workshop on "Fundamentals of Automatic Speech Recognition" from 7 March - 8 March 2011 held at C-DAC Noida.
90. Arti Gupta attended workshop on Data Mining- Research Issues, Recent Trends & PASW Modeler 12.0 Based Implementation, 4- 5 March 2011 at GGSIP University, New Delhi.
91. Alok Aggarwal, Chetna Gupta attended “Workshop on “Cloud Computing” by Accenture on April 23, 2011 at IIIT University, Noida
92. Arti Gupta and Mukta Goyal attended IUCEE workshop on Data Mining & Data Warehousing, 27 June- 1st July, 2011, Hyderabad, India.
93. Hema N. attended IUCEE workshop on “Hands-on workshop on Mobile Robotics”, taken by Prof. Fred Martin of University of Massachusetts Lowell at Chitkara University in Chandigarh during January 3 -7, 2011.

94. Manish Thakur, attended IUCEE workshop on "FLI2010 C18 DSP using Labview by Mark Yoder" from 5 to 9 Jul 2011 at Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh.
95. Divakar Yadav delivered invited talk on "Parallel WebCrawler" in national conference, 19-20 March 2010, organized by Sharda University, Greater Noida, India.
96. Chetna Dabas, Invited speaker in the AICTE sponsored Staff Development Program on "Recent Trends in Wireless Networks & Sensors" from 7-12 June'2010, Department of computer science and engineering of ITM, Gwalior, India.
97. Indu Chawla attended Workshop on Voluminous Databases from Dec 21-23, 2010 at Dept of Computer Science, University of Delhi, India.
98. Parmeet Kaur, Prakash Kumar and Vivek Misra attended a one day FDP on Cloud Computing and Software Assurance and Testing conducted by TCS at BVICAM, Delhi in Sep, 2010.
99. Divakar Yadav, Vikas saxena attended a 3 days short course on genetics algorithm by Prof. Rao Vemuri, University of California from 8-10 Nov, 2010 at IIIT.
100. Divakar Yadav, Alok Aggarwal attended "Workshop on Research Methodology for Computer Science" by Prof. Rao Vemuri, University of California, Davis on Nov. 12, 2010.
101. Alok Aggarwal attended "Workshop on Advances in Wireless Sensor Networks" by Prof. Rao Vemuri, University of California, Davis from Sep. 2-3, 2010
102. Divakar Yadav, Vikas saxena, Alok Aggrawal, Chetna Gupta attended a 1 days workshop on Conducting Design Science Research on 19 oct 2010 by Prof. Vijay Vaishnavi, Georgia State University 2010 at IIIT.
103. Chetna Gupta attended 2 day workshop on "Advances in Wireless Sensor Networks" delivered by Prof. Sajal K Das, University of California, Davis from Sep. 2-3, 2010.
104. Sandeep Kumar Singh attended International Conference on Computer and Communication Technology (ICCCCT), 2010, 17-19 Sept. 2010, Allahabad, India.
105. Sangeeta Mittal, attended "Towards development of Wireless Sensor Network services based on Semantic Web" IEEE Indicon from 17 -19 Dec 2010 at Jadavpur University, Kolkata.
106. Shikha Mehta, attended International Conference on Advances in Communication, Network, and Computing, Oct 4-Oct5, 2010, Calicut, Kereala, India.

107. Shikha Mehta attended 2nd Vaagdevi International Conference on Information Technology for Real World Problems, (VCON'10), Dec 9, 2010 - Dec 11, 2010, Warangal, India.
108. Shikha Mehta, attended International Conference on Swarm, Evolutionary and Memetic Computing, Dec 16, 2010 - Dec 18, 2010, Chennai, India.
109. Abhishek Swaroop attended IUCEE workshop on Parallel algorithms from July 5 to July 9 2010 at NIT Surathkal.
110. Alok Aggarwal attended “Workshop on Computer Networks” organized by IUCEE (Indo-US collaboration for Engineering Education) from July 12 to July 16, 2010 at KIIT University, Bhubaneswar, Orissa.
111. Anuja Arora attended IUCEE Workshop on “Software Engineering”, 28th June to 2nd July, 2010, Madurai, Tamil Nadu.
112. Chetna Gupta attended IUCEE Workshop on “Matlab and Simulink” from 12th to 14th July 2010 at JUIT Waknaghat.

Annexure-VI/CSE**Student Enrichment Programmes**

S. No.	Special Lectures/ Workshops/ Seminars	External Expert(s)	No of Participants	Date
Special Lectures				
1.	Entrepreneurship Master Class	Mr. Kamal Seth, Human Circle	50	19 Mar, 2015
2.	Privacy and security in Online Social Media	Prof. Ponnurangam Kumaraguru, IIT Delhi	200	16 Mar, 2015
3.	Importance of Competitive Programming	Anup Kalbalia, Technical Lead at Directi	250	18 Feb, 2015
4.	Recent developements in wireless and mobile communication and its research scope	Dr. Javed Khan, Kent State University, USA	~ 100	2 Feb, 2015
5.	Entrepreneurship organized by E-Cell IIT Bombay & NIESBUD	Prof.H.P Singh, NIESBUD	~ 350	19 Jan, 2015
6.	Entrepreneurship talk	Mr. Sunil Mahajan, Mr. Naresh Chand, Kleeto	~ 50	28 Nov, 2014
7.	Entrepreneurship talk	Mr. Sunil Mahajan, Mr. Naresh Chand, Kleeto	~ 200	3 Dec, 2014
8.	Next Generation ERP for Android	Mr. Mohit Sharma from Homeshop18	12	11 Nov, 2014
9.	Socially Intelligent Robots: Towards human-robot co-existence-Lecture	Dr. Amit Kumar Pandey (Aldebaran Robotics)	180	07 Nov, 2014
10.	Weekend Venture	Mr. Zuheb Jamil	~ 180	7 Nov, 2014
11.	Random Numbers and Computational Intelligence	Dr. J. C. Bansal, SAU	40	17 Oct, 2014

		New Delhi		
12.	J-Unite 14	Mr. Martin Innoticals Pvt.Ltd.	40	12 Oct, 2014
13.	Rise of Open Source Data Science Tools	Hari Prasanna and Pranav Prakash of Slide Share	~ 150 and 25 external participants	27 Apr, 2014
14.	Avoiding single point of failures in a multi-services architecture	Mr. Gurteshwar Singh (Plivo Inc)	~ 150 and 25 external participants	27 Apr, 2014
15.	An intro to Open Source Telephony	Mr. Gurteshwar Singh (Plivo Inc)	~ 150 and 25 external participants	27 Apr, 2014
16.	Perfect recipe for data wrangling: IPython Notebook+ Pandas + Visualizations !	Mr. Konark Modi, MakeMyTrip	~ 150 and 25 external participants	27 Apr, 2014
17.	Numberscape - The landscape of opensource languages and tools for computational math	Mr. Rudraksh, MathHarbor	~ 150 and 25 external participants	27 Apr, 2014
18.	Machine Learning with Apache Mahout and Scala	Mr. Saleem Ansari, Impetus Technologies	~ 150 and 25 external participants	27 Apr, 2014
19.	Startups Don't Happen Overnight:	Nikhil Wason Cardback	~ 150 and 25 external participants	27 Apr, 2014
20.	Happy Go Programming	Pravin Kumar Mishra Runtime Systems	~ 150 and 25 external participants	27 Apr, 2014
21.	Number Nirvana: Our experiences building a niche product for math nerds.	Rudraksh and Juhi Mathharbor	~ 150 and 25 external participants	27 Apr, 2014
22.	Making Your First 1000 Dollars	Yogi Raj 24 Idea Street	~ 150 and 25 external participants	27 Apr, 2014
23.	Building scalable web applications on cloud platform	Mr. Ankit Maheshwari InnovAccer	~ 150 and 25 external participants	26 Apr, 2014

24.	Open Source behind MakeMyTrip Infrastructure	Mr. Piyush Kumar MakeMyTrip	~ 150 and 25 external participants	26 Apr, 2014
25.	Getting started with AngularJS	Mr. Pragun Bhutani Pixpa	~ 150 and 25 external participants	26 Apr, 2014
26.	GNOME	Mr. Shobha Tyagi GNOME	~ 150 and 25 external participants	26 Apr, 2014
27.	The Dynofy Story	Mr. Shubhamoy Chakrabarty, Dynofy	~ 150 and 25 external participants	26 Apr, 2014
28.	Hardware hacking	Mr. Tavish .BaseApp Systems	~ 150 and 25 external participants	26 Apr, 2014
29.	Introduction to Web Scraping in Python	Mr. Saurav Tomar, Wecure	~ 150 and 25 external participants	26 Apr, 2014
30.	"SAP : View As Career Option"	Mr. Aman Gupta, SAP Practice	~ 50	23 Apr, 2014
31.	"SAP : View As Career Option"	Mr. Mahesh Krishnan,HCL	~ 50	23 Apr, 2014
32.	"SAP : View As Career Option"	Mr. Maneesh Birthwar, SAP Practice SVAM International	~ 50	23 Apr, 2014
33.	Engineering Science Research Methods	Prof. Vijay Vaishnavi Georgia State University	~ 80	16 Apr, 2014
34.	Career Guidance	Prof Sartaj Sahni, University of Florida, USA	~ 100	16 Apr, 2014
35.	SAP Hana	Mr. Sanjeev, Accenture	35	8 Jan, 2014
36.	Creative Coding	Mr. Nikhil Joshi - Partner of Digital Jalebi	~ 70	16 Aug, 2013
37.	Big data: A Perspective	Mr. Ashish	~ 120	1 Aug.

		Gupta, Identity Management and Security Group, Oracle India		2013
Workshops				
38.	Real Steal -Workshop		300	28-29 Oct, 2014
39.	Wireless Communication Workshop using XBEE		80	10-12 Sep, 2014
40.	Workshop on Social Media Attacks		150	12 Sep, 2014
41.	ISTE Workshop on Computer Programming		11	16-21 Jun, 2014
42.	Basic Internet and Cyber Security		~ 150	3 May, 2014
43.	Workshop on Hands on practice on Arduino Board		~ 250	25-29 Mar, 2014
44.	JIIT –GDG Android Workshop by MultiSoft Systems		~ 150	27-28 Apr, 2013
45.	Nokia Student development program		15	6 - 20 Apr, 2013
46.	Accenture’s Workshop on Cloud computing on Cloud computing with Azure features, services and leveraging Azure for Asynchronous computing		~ 40	8 -9 Mar, 2013
47.	ISTE- Aakash Android Application Programming		~ 50	2-3 Mar, 2013
48.	Autonomous Robotics		~ 200	9 -12 Feb, 2013
49.	JIIT –GDG Workshop on Java		~ 50	22-29 Jan 2013
50.	C programming Language workshop		~130	7 -9 Nov 2012 & 19 - 22 Nov 2012
51.	Accenture’s Workshop on Enterprise Resource Planning		~ 40	30 Oct – 6 Nov,

			2012
52.	JiIT –GDG Being Search Ninja	~ 110	5 Nov 2012
53.	JiIT –GDG Stepping Right On HTML5 by CETPA	~ 130	4 - 5 Oct, 2012
54.	Manual Robotic	~ 300	28–29 Sep, 2012
55.	Introduction to microcontroller based system	~ 300	28- 29 Aug 2012
56.	JiIT –GDG Lets Meet Google	~ 230	17 Aug, 2012
Seminars			
57.	Manual Robotic	~ 300	8-14 Oct, 2014
58.	Manual Robotic	~ 300	12 -14 Sep, 2012
Webinars			
59.	Webinar on 2015 Security Predictions	Websense	27 Nov, 2014
60.	Webinar on 2015 Security Predictions	Dr.Sumantra Dutta Roy (IIT,Delhi)	5 Nov, 2014
Programming Contests			
60.	Programming Contest: Execute 15.2 (Online)	600	9 May, 2015
61.	Programming Contest: Knuth Cup 3.0	200	15 Mar, 2015
62.	Programming Contest: Execute 15.1	350	31 Jan, 2015
63.	Hackathon, “ExeBit 14.1: Exhibit Your Ides	150	22 Nov, 2014
64.	Programming Contest: Execute 14.4	400	2 Nov, 2014
65.	Programming Contest: Execute 14.3	250	26 Apr, 2014
66.	Programming Contest: Knuth Cup 3.0	250	8 Mar, 2014
67.	Programming Contest: Execute 14.2	140	2 Mar, 2014
68.	Programming Contest: Hostel Combat	180	1 Mar, 2014
69.	Programming Contest: Execute 14.1	210	18 Jan, 2014
70.	Programming Contest:	160	5 Oct,

	Execute 13.2		2013
71.	Programming Contest: Knuth Cup 2.0	110	2 Mar, 2013
72.	Programming Contest: Execute 13.1	180	19 Jan, 2013
73.	Programming Contest: Execute 12.3	160	24 Nov, 2012
74.	Programming Contest: Execute 12.2	130	21 Mar, 2012
75.	Programming Contest: Execute 12.1	140	18 Feb, 2012