

Department of Computer Science & Engineering

1. Introduction about department:

The Department of Computer Science and Engineering offers four year B. Tech program in Computer Science and Engineering based on semester system. Since its inception in 2002, the branch has attracted a lot of young talent who want to pursue in this field. Recent advancements in the field of Computer and Information Technology has made this world a global village, with continuous thrust on avenues such as Information Super Highway, Software Development, Problem Solving Techniques and a host of other technologies. Keeping this thing in mind, Department of Computer Science & Engineering is in the process of improving the training and course contents beyond the regular curriculum which meet the latest challenges and advancements in Technology in the knowledge driven world. Department of Computer Science & Engineering at ACET has made every effort to give our Nation engineers with a high caliber of technical expertise. It continues to foster and engender the innovation and breadth of vision necessary to excel in the blooming software and hardware industry.

The experienced faculty exposes the would-be computer engineers to a rigorous and exhaustive curriculum designed to bring out the best in them and to keep them in touch with the latest state of the art technology.

2. HOD brief details and 3 expertise in the deptt. (only add senior faculty members here)

Name	Er. Sandeep Kad, HOD(CSE/IT), Deputy Dean Academics
Qualification	M.Tech PhD Pursuing
Total Experience	16 Years
Area of Specialization	Network Security & Soft Computing

Expertise in the Department:

S. No.	Faculty Name	Qualification	Experience	Specialization
1	Mr. Ajay Sharma Associate Professor	M.Tech PhD Pursuing	22 Years	BigData, DBMS, Programming Languages
2	Mr. Amarpreet Singh Associate Professor	M.Tech PhD Pursuing	14 Years 6 months	Network Security
3	Ms. Navneet Bawa Associate professor	M.Tech PhD Pursuing	9 years 6 Months	Image Processing, Bioinformatics

3. New joining (faculty) in the deptt

Name	Designation	Date of Joining	Qualification/University/Year
Ms. Navleen Kaur	Assistant Professor	13/7/2016	M-Tech/(Punjabi Univ.)/ 2011 B-Tech(CSE)/PTU/ 2009
Ms Priya Sharma	Assistant Professor	03/08/2016	MTech (PTU)/2016 B-Tech(CSE)/PTU/ 2013

4. Student Strength Year wise with Gender and State Distribution.

Year	Male	Female	From Punjab	From Himachal	From J& K	From Others States
1 st year	99	158	158	2	5	10
2 nd year	118	79	172	3	4	19
3 rd Year	97	68	159	1	5	5
4 th Year	95	114	203	---	3	3

5. Final Examinations Results :-

a. Pass %age subject-wise (Dec., 2015)

B.Tech (CS1) 3 rd Sem	Subjects	No of Student Appeared	Pass %age
	BTCS 301 Computer Architecture	64	87.5
	BTCS 302 Mathematics III	64	60.93
	BTCS 303 DCLD	64	78.12
	BTCS 304Data Structure	64	93.75
	BTCS 305OOPs using C++	64	76.56

B.Tech (CS2) 3 rd Sem	Subjects	No of Student Appeared	Pass %age
	BTCS 301 Computer Architecture	63	85.71
	BTCS 302 Mathematics III	63	61.9
	BTCS 303 DCLD	63	77
	BTCS 304Data Structure	63	84

	BTCS 305OOPs using C++	63	76
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B.Tech (CS3) 3rd Sem	Subjects	No of Student Appeared	Pass %age
	BTCS 301 Computer Architecture	69	75
	BTCS 302 Mathematics III	69	75
	BTCS 303 DCLD	69	75
	BTCS 304Data Structure	69	78
	BTCS 305OOPs using C++	69	71

B.Tech (CS1) 5th Sem	Subjects	No of Student Appeared	Pass %age
	BTCS501 CN-II	56	89
	BTCS502 RDBMS-I	56	94.6
	BTCS503 DAA	56	91.07
	BTCS504CG	56	92.8
BTCS505 CPI	56	98.21	

B.Tech (CS2) 5th Sem	Subjects	No of Student Appeared	Pass %age
	BTCS501 CN-II	54	100
	BTCS502 RDBMS-I	54	100
	BTCS503 DAA	54	94.44
	BTCS504CG	54	96.29
BTCS505 CPI	54	98.14	

B.Tech (CS3) 5th Sem	Subjects	No of Student Appeared	Pass %age
	BTCS501 CN-II	61	88.5
	BTCS502 RDBMS-I	61	90.16
	BTCS503 DAA	61	86.8
	BTCS504CG	61	85.24
BTCS505 CPI	61	91.80	

B.Tech (CS3) 7th Sem	Subjects	No of Student Appeared	Pass %age
	BTCS701 AI	75	94.6
	BTCS702 TOC	75	88
	BTCS905 STQA	75	97.3
BTCS912 Cloud Computing	75	96	

b. Pass %age subject-wise (May 2015)

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS1) 4h Sem	BTCS 401 OS	58	89.6
	BTCS 402 DISCRETE	58	81
	BTCS 403 CN I	58	84.4
	BTCS 404 MPAL	58	84.5
	BTCS 405 SP	58	89.6

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS2) 4h Sem	BTCS 401 OS	56	91.0
	BTCS 402 DISCRETE	56	83.9
	BTCS 403 CN I	56	87.5
	BTCS 404 MPAL	56	89.0
	BTCS 405 SP	56	94.6

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS3) 4th Sem	BTCS 401 OS	62	88.7
	BTCS 402 DISCRETE	62	94
	BTCS 403 CN I	62	87
	BTCS 404 MPAL	62	83.8
	BTCS 405 SP	62	88.7

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS1) 6th Sem	BTCS-601 Simulation & Modeling	69	100
	BTCS602 RDBMS-II	69	94
	BTCS603Software Engineering	69	94
	BTCS 901 Web Technologies	69	97
	HU-251Human Resource Management	69	100

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS2) 6th Sem	BTCS-601 Simulation & Modeling	73	98.6
	BTCS602 RDBMS-II	73	94
	BTCS603Software Engineering	73	98
	BTCS 901 Web Technologies	73	97
	HU-251Human Resource Management	73	100

	Subjects	No of Student Appeared	Pass %age
B.Tech (CS3) 6th Sem	BTCS-601 Simulation & Modeling	68	97
	BTCS602 RDBMS-II	68	91

	BTCS603 Software Engineering	68	97
	BTCS 901 Web Technologies	68	100
	HU-251 Human Resource Management	68	100

B.Tech (CS1) 8th Sem	Subjects	No of Student Appeared	Pass %age
	BTCS-701 AI	72	100
	BTCS702 TOC	72	97.2
	BTCS905 STQA	72	98.6
	BTCS 912 CC	72	87.5

May 2015

Class/Sem B.Tech	No. of students having more than 75% marks	No. of students having more than 80% marks
4th	17	13
6th	35	18
8th (Theory)	16	2
8th (Training)	23	31

Dec 2015

Class/Sem	No. of students having more than 75% marks	No. of students having more than 80% marks
3rd	8	2
5th	23	26
7th (Theory)	4	2
7th (Training)	68	40

**6. Placements :-
Batch 2012- 2016**

Name of Company	No of Student Placed
Airtel	2
AON HEWITT	3
BitWise	4
Bluegape	2
Capgemini	1
Catalyst One	1
Catalyst1	2
claysol Media Labs	1
Co-oprative Infotech	2
eClerx	16
Fran connect	2
Graziti	1
Group10	1

Hawlett Packard	1
HCL	1
HeadField	8
IGate	9
Mind Infotech	1
OATI	1
Optimizer infotech	1
R Systems	2
SAPLABS	1
Sopra Steria	1
Wipro	2

7. Departmental Library :- Books & Journals

No. of Books: 534

No. of Books in Book Bank: 7378

No. of Thesis/Projects: 20/24

8. Students Activities and achievements :-

a. Social Curricular/co-curricular Activities :-

Sr. No.	Name of the Student	Event	Position Obtained
1	Karanbir Singh Lovejeet Singh Paramjeet Singh Mayank Wadhwa Kanika Mohak Bhalla	TechFest at Khalsa College Amritsar	Overall Runner-up trophy

b. ACES (ACET COMPUTER ENGINEERS SOCIETY)

The department has established technical society under the name 'ACES' with an aim to enhance technical and managerial skills of the students by organizing supplementary programmes like paper presentations, technical seminars, aptitude tests, group discussions, quiz, mock interviews, etc. This is done to prepare computer engineers who are not only sound in professional competence but also in their overall perspective to serve the mankind globally

SUMMARY OF ACES SOCIETY EVENTS

Year	Date	Name of Event	No. of Students Participated	Name of Top two winners / Deptt.
2015-16	27 th Aug 2015	Aptitude Test	400	Manisha Kumari CSE Neerajpreet CSE
	10 th Sept 2015	Sudoku Event	40	Tania CSE Dikshit ECE

	10 th Sept 2015	Who Am I Event	60	Sandeep Singh CSE Varinder CSE
	10 th Sept 2015	Crossword Event	42	Neha Farlia CSE Abhay CSE
	15 th Feb 2016	Code Sprint	38	Gaurav Arora CSE Neeraj Vanvari
	30 th March 2016	Online programming Competition – Hacker Earth	40	Kanika Lovejeet Singh

9. Workshops/Seminars/Guest lectures

S.No.	Title	Date	Resource Person
1.	Seminar on opportunities through GATE	1 day (11 April 2016)	Mr. Tarun (GATE Resolution)
2.	Seminar on “Latest Trends in IT”	1 day (6 April 2016)	Mr. Harminder Singh Chawla
3.	Workshop on Android	3 day (25-27 March 2016)	Mr. Girish Kumar
4.	Workshop on Cyber Security and Ethical hacking	3 day (12-14 Feb 2016)	Er. Vinod Sharma Er. Parambir Singh
5.	Workshop on Cyber Security and Ethical hacking	3 day (20-22 Aug 2015)	Er. Vinod Sharma Er. Parambir Singh
6	Guest lecture on “ Advanced Networks and Technologies “	27 th Aug, 2015	Dr. Anil Verma (Thapar University, Patiala)
7	Guest Lecture on “ New Computing Paradigms “	27 th Aug, 2015	Dr. Karun Verma (Thapar University, Patiala)
8	Guest Lecture on “ Recent Trends in Databases “	23 rd Feb, 2016	Dr. Parteek Bhatia (Thapar University, Patiala)

List of National/International Journals

2015-2016

S. No	Title of Article	Author(s)
1.	A Cluster Based Group Signature Mechanism For Secure Vanet Communication, International Journal Of Scientific & Technology Research Volume 5, Issue 04, April 2016, ISSN 2277-8616	Ms Navjot kaur Er. Sandeep Kad

2.	A Study of Vehicular Information Network Architecture based Named Data Networking (NDN), International Journal of Computer Applications (0975 – 8887) Volume 140 – No.6, April 2016	Ms Kanwalpreet kaur Er. Sandeep Kad
3.	A Study of Reliable Routing Protocols for Vehicular Adhoc Networks, International Journal of Computer Applications (0975 – 8887) Volume 133 – No.3, January 2016	Ms Kavneet Kaur Er. Sandeep Kad
4.	A Study Of Swarm Inspired Routing Protocol For WANETS, International Journal of Advance Research, Volume 3, Issue 11, November 2015, Online: ISSN 2320-9194	Ms Gaganjot kaur Er. Sandeep Kad
5.	A Comparative Study Of Various Vehicular Adhoc Network Techniques, International Journal of Modern Trends in Engineering and Research Vol. 2 Issue:11, Nov. 2015	Ms Sophia gill Er. Sandeep Kad
6.	Covert Communication in VANETS using Internet Protocol Header Bit, International Journal of Computer Applications, Volume 123, No.17, (0975 – 8887), 2015	Ms Kimmi Manchanda Er. Amarpreet Singh
7.	A review on Energy Efficient Clustering Protocols based on LEACH in WSN, Australian Journal of Information Technology and Communication, Vol. 2, 15-20, 2203-2843, Sept 2015	Ms Ramandeep kaur Er. Amarpreet Singh
8.	A New Algorithm for Image Fusion to reduce computational Time, INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY, Volume 15 Number 04, ISSN 2277 – 3061, March 2016	Ms Navjotkaur, Er NavneetBawa,
9.	Geographical Information System For Farm Entrepreneur, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 4, Issue 10, ISSN 2319 – 4847, October 2015	Sandeep Singh, NavneetBawa
10.	Review of an Edge Preserving Image Fusion, International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 8, August 2015	Sandeep Singh, NavneetBawa, Amarjit Kaur
11.	Enhanced Image Fusion Algorithm Centered on Pyramidal Organization, International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 8, August 2015	Sandeep Singh, NavneetBawa
12.	Comparison Analysis of Wavelet Transformation with Pyramidal Approach, International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 8, August 2015	Sandeep Singh, NavneetBawa
13.	Improving performance of mobile adhoc network using enhanced ant colony optimization, IJESC, ISSN 2321-3361, February 2015	Er. MohitSood
14.	Evaluation and comparison of DSDV, AODV and DSR routing protocols in MANET, Journal of computing technologies(2278-3814)/#61/volume 4 issue 1, 2015	Er. MohitSood

Conference publications

2015-2016

S. No	Title of Article	Author(s)
1.	A Review on various security techniques in VANETs, Elsevier Procedia International Conference on Information Security and Privacy(ICISP'15), Dec. 2015, pp: 284-90.	Mr Amandeep Singh Er. Sandeep Kad
2.	A Review on Security related aspects in VANETs, Elsevier Procedia International Conference on Information Security and Privacy(ICISP'15), Dec. 2015, pp: 387-94	Ms Navjot kaur Er. Sandeep Kad
3.	Improved Bee-Inspired routing protocol using Lzw based lossless compression, Proceedings of IEEE 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS'15) Pp: 1-6, 2015. DOI: 10.1109/RAECS.2015.7453386	Ms Gaganjot kaur Er. Sandeep Kad
4.	Comparison of OLEACH and WC-OLEACH algorithms in wireless sensor network, IEEE sixth international conference on communication system and network technology at chitkara university Rajpura, 5-7 March, 2016	Er. Ramandeep Kaur, Er. Amardeep Singh
5.	An efficient clustering approach for connectivity maintenance in vehicular ad-hoc networks, IEEE sixth international conference on communication system and network technology at chitkara university Rajpura, 5-7 March, 2016	Er. Manverpreet Kaur, Er. Amarpreet

		Singh
6.	Establishment of Bit Selective Mode Storage Covert Channel in VANETS, 2015 IEEE International Conference on Computational Intelligence and Computing Research (2015 IEEE ICCIC)	Ms Kimmi Manchanda Er. Amarpreet Singh
7.	Enhanced Bandwidth Efficient Cluster Based Multicasting Protocol in VANETS, 2nd International Conference on Recent Advances in Engineering and Computational Sciences(RAECS – 2015)	Ms Navneet kaur Er. Amarpreet Singh
8.	A novel mechanism for detecting DOS Attack in VANET using Enhanced Attacked Packet Detection Algorithm (EAPDA), 2nd International Conference on Recent Advances in Engineering and Computational Sciences (RAECS – 2015) .	Ms Priya Er. Amarpreet Singh
9.	Evaluation of Data transmission in Normal and Covert mode in VANETS, International Conference on Electrical, Electronics, Computer Science, Mathematics, Physical Education and Management (ICEECMPE), 978-93-85832-42-0, 8 th Nov/2015	Ms Kimmi Manchanda Er. Amarpreet Singh
10.	Bandwidth Efficient Cluster Based Collision Avoidance Multicasting Protocol in VANETs, International Conference on Industrial Electronics and Electrical Engineering (ICIEEE), 978-93-85832-03-1, 27 Sept/ 2015	Ms Navneet Kaur Er. Amarpreet Singh
11.	Enhanced Attacked Packet Detection Algorithm For Detecting Dos Attack In VANET, Proceedings of 38th IRF International Conference (ICIEEE-2015), Pune, India, 978-93-85832-03-1, 27 th September 2015	Ms Priya Er. Amarpreet Singh
12.	Classical Techniques to Segment an Image: A Survey, 2 nd International conference on innovative practices in information technology and operation management, 6 th May.	Er. RitambhraVaid Er. NavneetBawa
13.	A SURVEY OF IMAGE ENHANCEMENT TECHNIQUES, 2 nd International conference on innovative practices in information technology and operation management, 6 th May.	Er. Kirandeep Kaur Er. NavneetBawa

10. Photo Gallery



Overall Runnerup Trophy Winners at Khalsa college TechFest



Semester Toppers receiving Appreciation letter



Six Weeks Training Best Projects Award Winners



Workshop Training Best project Award winners



Alumni Meet 26 March 2016



Ethical Hacking Workshop 12 Feb 2016



ACES - CODE SPRINT EVENT WINNERS
15th Feb 2016



ONLINE CODING COMPETITION 30th March 2016
Prize Distribution ceremony



ACES Aptitude Test Aug 2015



Guest Lecture on “Advanced Networks and Technologies”
By
Dr. Anil Verma, Assoc. Prof., Thapar University, Patiala



Ethical Hacking Workshop Certificate Distribution
Ceremony Feb 2016



On the Spot programming Competition