



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NEWSLETTER

HOD'S Message



Inderprastha Engineering College, top placement college in AKTU intends to revitalize inquisition and innovation in the design and development of computational systems as well as their integration with hardware and software engineering. The objective of the B.Tech program in Computer Science and Engineering (CSE) is to equip students to take plunge in careers enmeshing innovation and problem solving using computational techniques and technologies, to undertake advanced studies for research works or establish their own start-ups. In order to give due significance to applied as well as theoretical concepts of computing, the curriculum for the B.Tech (CSE) program covers most of the stated aspects of computing sciences, and provides an ambience where students can sprout into Computer Engineers of tomorrow posing requisite attributes.

The faculty is well qualified and a large number of them are involved in research in areas like Big Data, Multimedia Systems and Apps, Soft Computing, Deep Learning, Wireless Networking & Security, Software Engineering etc.

Prof. (Dr.) Vijai Singh
(Ph.D-UTU, Dehradun (State University))

VISION

To provide ample opportunity to the young engineers for evolving their core competencies for building up their career as world class professionals with strong foundation, in-depth knowledge and versatile personality to meet the challenges of global economy.

MISSION

- M1. To impart quality education to produce innovative and globally competent technocrats having sound knowledge in the everchanging field of computer science
- M2. Providing suitable environment through state of art laboratories, industry tie-ups, project labs and workshops for perusing higher education and research.
- M3. Inculcate the values of leadership, integrity with sensitivity to societal issues.

ABOUT THE DEPARTMENT

Department of computer science & engineering is NBA accredited. 100 % admission in the Dept. The objective of the B.Tech program in Computer Science and Engineering (CSE) is to equip students to take plunge in careers enmeshing innovation and problem solving using computational techniques and technologies, to undertake advanced studies for research works or establish their own start-ups. In order to give due significance to applied as well as theoretical concepts of computing, the curriculum for the B.Tech (CSE) program covers most of the stated aspects of computing sciences, and provides an ambience where students can sprout into Computer Engineers of tomorrow posing requisite attributes.

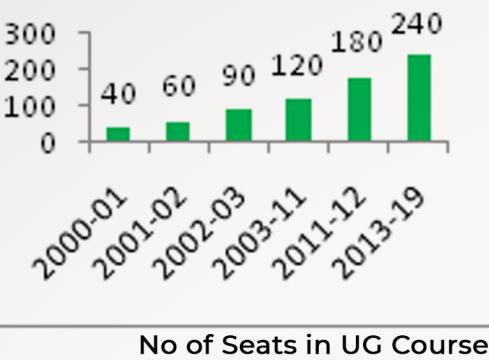
The department is Established in the year 2000 with an initial intake of 40. Now total 749 students in CSE department. 16 Batches successfully graduated. The department is well established with 42 faculty members (1 professor, 3 Associate professor, 38 Assistant Professor) in the department, 12 Classrooms equipped with LCD Projectors, 12 Well equipped Labs, 01 Seminar Hall (Seating Capacity: 180), 01 Departmental library. Internet Facility of 100 Mbps 24x7 and Fully Wi-Fi campus.



INDERPRASTHA ENGINEERING COLLEGE

Students in the Department....

Year Wise Increase in Seat Share



Result of the Department

Result of the department is continuously improving from last three years:

Clear Pass Last 3 years(Total pass %)

Odd &Even Sem

Year	2019-20	2018-19	2017-18
2nd	85.76%	82.85%	60.62%
3rd	90.98%	89.64%	84.67%
4th	98.41%	97.98%	93.46%

Students Achievements/ Recognition

- 100 % admission in the Department
- 19 Lakh highest salary in 2019-20 as compared to 10 Lakh highest salary in 2018-19; average package increased to 3.90% in 19-20 3.75% in 18-19 and 3.06% in 2017-18.
- Clear pass percentage of 2nd year considerably improved from 74.79% in 2018-2019 to 91.61% in 2019-20.
- 36 research papers from students' project in 19-20 as compared to 13 research papers from students' project in 18-19 and 12 in 17-18.
- In 2019-20 302 students participated in inter-college events winning 26 medals in sports with 8 Gold 12 silver and 6 Bronze medals.
- Techathlon 2020: Intercollege hackathon and project competition with 38 teams in Hackathon, 31 teams in Project and 33 teams in Posters.
- Alumni connect series organized during lockdown; Alumni meet organized on 9th Feb 2019 wherein 75 alumni participated.

B.Tech (Final Year)Projects Statistics

Session 2019-20	<ul style="list-style-type: none"> Total 72 projects on different Titles. 36 Groups have published papers in journals/conferences
Session 2018-19	<ul style="list-style-type: none"> Total 71 projects on different Titles. 13 Groups have published papers in journals/conferences
Session 2017-18	<ul style="list-style-type: none"> Total 75 projects on different Titles. 11 Groups have published papers in journals/conferences

NPTEL Online Courses CERTIFICATE RECEIVED BY THE ACHIEVERS

SEMESTER	2019-20 Odd		2018-19 Even		2018-19 Odd	
FAC/STU	FAC	STUD	FAC	STUD	FAC	STUD
Enrolled	77	740	82	1202	57	887
Registered	8	76	16	129	3	86
1% Topper	0	0	2	0	0	1
2% Topper	0	0	1	1	NA	NA
5% Topper	1	2	1	5	0	2
Elite Gold	0	0	1	5	0	1
Elite Silver	4	26	4	25	NA	NA
Elite	1	19	3	36	2	24
Successfully Completed	1	3	3	33	1	29
Fac+Stud	7	50	15	106	3	59
Sem-Wise	57		121		62	
Year-Wise	-		183			

Pride of the Department

Heartiest Congratulations to the national topper of NPTEL Certification Courses

Course Name	Category	Student Name
An Introduction to Programming Through C++	(Elite+5% topper of the course) Elite + Gold	KUSH GUPTA  Kush Gupta
Enhancing Soft Skills and Personality	(Elite+2% topper of the course) Elite + Gold	VAIBHAV SHARMA 
Programming in Java	(Elite+5% topper of the course) Elite + Gold	SAMYAK JAIN 
The Joy Of Computing Using Python	(Elite+5% topper of the course) Elite + Gold	VIBHUTI MANDRAL 
Programming Data Structures Using Python	(Elite+5% topper of the course) Elite + Gold	KARAN ARORA  KARAN ARORA 15.12.2015

Sopra Steria - Industry Academia Collaboration...

Session	Events	Students Trained
2018-19	Industrial Visit	42
	Technical Session	40
2017-18	Soft skill Workshop	40
	Workshop on Agile Model	
	Software Development Life cycle workshop	
2016-17	Faculty Workshop on Software Requirement Specification Document	42
	Industrial Visit and Workshop on Soft Skills	
	Technical Workshop on SDLC and Agile Technology	
2015-16	Workshop on Soft Skills	40

Sponsored Research Projects

(Total grant received under Sponsored Research Projects = Rs. 19.40 Lac)

Session	Project Title/ PI & CO-PI	Funding Agency	Status
2019-20	Upgradation of AI and Machine learning lab under MODROBS 2019-20	AICTE Modernization and removal of Obsolescence (MODROBS) Scheme	Approved & Ongoing
2017-18	“Big Data Analysis Using High Performance Modelling and Simulation Techniques”/ Prof. Dr. V. K. Singh & Prof R. Kashyap	AKTU (Vishveswarayya Research Promotion Scheme)	Completed
2013-16	Computer Vision and Processing of Antarctic Sea Ice Images/ Dr. K C Tripathi	AICTE (Research Promotion Scheme)	Completed & Report Submitted

Industrial Exposure Events organized (2020-2021)

EVENT NAME	DATE	RESOURCE PERSON
Webinar on Data Science	19/08/2020	Mr. Mohit Uniyal CODING BLOCKS
Cryptogram Online Puzzle	30/08/2020	CSI IPEC Student Branch (CSE)
Workshop on Android	12/09/2020	TWO WAITS Mr. Achintya Gaumat.
Webinar on IOT	18/10/2020	Head at CTIA, Mr. Himanshu Tripathi
Prep Placement	28/11/2020- 6/12/2020	CSI IPEC Student Branch (CSE)

Students Placement

The average package of the students is continuously increasing from last three years.

Consultancy Projects

Total grants received under Consultancy Projects = Rs. 8.21 Lac

Session	Project Title/ PI & CO-PI	Duration	Funding Agency	Amount (Lac)	Status
2014-16	Ambient Air in CSE Department Quality Monitoring (AICQM)/ Mr. Alok Katiyar	2 Years	Central Lab, UP Pollution Control Board Government, Lucknow, (U.P.)	8.21 Lac	Completed & Report Submitted

Session	Total students	Overall Placement				Average Package (LPA)
		Corporate Placement	Total Offers	Total Students placed	% Students placed	
2020-21 (till date)	245	151	307	151	61.6	4.5
2019-20	250	194	364	194	77.6	3.95
2018-19	248	176	279	177	71.37	3.75

Faculty Achievements/ Recognition

1. 7 PhD faculty members and 13 pursuing PhD.
2. 174(38) is the Participation in FDP (Faculty Count) in session 2019-20
3. 128 research papers are published in last three years in journals and conferences.
4. 3 funded projects completed, 1 ongoing.
5. 84 COURSERA and 24 others certifications by faculties since lockdown.

Faculty Research Publications

Session	Peer Reviewed Journals		National/ International Conferences	Book/ Book Chapter	Patents	Total
	SCI Index/ SCOPUS Index	Refereed Journals				
2020-21	1 (SCI) + 2 (SCOPUS)	1	4	2	3	13
2019-20	1 (SCI) + 14 (SCOPUS)	37	8	2	-	62
2018-19	3	18	16	5	-	39

Departmental achievements...

FDP Organized

Academic Session	FDP Title	Resource Person(s)
2019-20	Block Chain Technology	Mr. Amit Mishra (DiginiqueTechLabs, Gurgaon)
2018-19	Deep Learning and Applications	(Webinar mode) 1) Aparajita Ojha, Indian Institute of Information Technology, Jabalpur 2) Dr. P. P. Roy (IIT Roorkee) 3) Dr. R. Venkatesh Babu (IISc Bangalore) 4) Dr. Biplab Banerjee (IIT Bombay) 5) Dr. R. Venkatesh Babu (IISc Bangalore)
	Python Programming	Ms Ridhi Sahani of ATS Infotech Pvt. Ltd. (Microsoft- AER)
2017-18	High Performance Computing Parallel Programming and Administration	1) Mr. Chetan, Mr. Krishna from Wipro Technologies 2) Dr. Sudip Roy, IIT Roorkee
	Virtual Labs: IIT Delhi	1) Mr. Tanmay Tarun Das (Sr. Project Assistant/Outreach Incharge) 2) Mr. Prateek Sharma (Project Assistant) 3) Mr. Ashish Mudgil (Project Assistant) 4) Mr. Mohak Kaushik (Project Assistant)
	Artificial Intelligence	1) Dr. Sudip Roy, IIT Roorkee 2) Mr. Sudhanshu Saxena, Kovid Academy

Department Achievements/ Recognition

- Department has new initiatives for two labs ,cryptography & security and network lab with state of art simulator with 15 systems.
- Students are publishing research papers in different(SCI/Scopus/referred/international conference) categories. 128 research papers are published in last three years in journals and conferences.
- 302 students participated in inter-college events winning 26 medals in sports with 8 Gold 12 silver and 6 Bronze medals.
- Department has organized "Techathlon 2020".In which participation of Intercollege (38 teams in Hackathon, 31 teams in Project and 33 teams in Posters) are done successfully.
- Department faculty members and students received ELITE+GOLD, ELITE+SILVER, ELITE positions in different courses of NPTEL.
- International Conference conducted on "Advances in Computing and Data Science ICACDS-2019" on with 150 participants from 10 nations.

Best practices of department

Panel wise Students Project Presentation

The department is organizing Panelwise Students Project Presentation of final year students, in which Involvement of all faculties, Faculty research areas incorporation, Students viable project area selection, Research paper and Project Report plagiarism checking, Participation in intercollege Events in done to improve student project quality. With this practice,students are motivated to publish research papers in different journals/conferences. Research count is continuously improving from last three years (2019-20:36, 2018-19:13, 2017-18:12)

Industry Oriented Preparatory Programme

This programme offers a wide range of preparatory course material both for IT industry placements that ensures that the student is thorough with the essential pre-requisites in successive career prospects which student wishes to undertake. The programme offers a complete package which has consistently valued to have exceptional returns on investment, as aptly testified by the results and achievements. The department is running different skills programs like: Success Gateway programme, Mentor Buddy,Codetantra,Edugrad,InfyTQ Training Programme. With this practice ,the average package increased over the years from 2019-20(3.9 LPA) to 2020-21(4.5 LPA).

MOUs with the Department

The Department has different MOUs to provide summer internship and certification courses

- 1.ICT Academy: provide summer internship and certification courses on emerging technologies.



2.Infosys: Students are registered for the courses on Programming fundamentals with Python, OOPs with Python, Data Structures using python (INFYTQ).

3.i-learning coding platform Code Tantra: provides a virtual lab for conduction assessment and recording of all coding-based labs. This has enhanced and honed coding skills with subject labs linked academic curriculum for 24 X 7 access and assessment for all students.

4.CISCO Networking Academy Program-Provides training and certification in networking.



- 5.Success Gateway program - A training programme for selective students good at academic as well as technical skills.

Department Societies

IPEC CSE society is an amalgamation of all the amazing and creative artists. The societies also organizes multiple technical events such as seminars, workshops, conferences etc. to keep the art and the artists active throughout the year. Members of the society are regular winners at prestigious inter college events thus showcasing their talent at various platforms.

IPEC CSE department has various societies like



Trinity is one of the most vibrant and oldest student organizations of the institution, runs under the auspices of Department of Computer Science & Engineering. Trinity has been conducting various events and workshops aiming to clear the fundamentals of programming languages and course curriculum in the best way possible. Technical Events like Cryptohunt, Github and Open-Source Workshop, Coding Relay, Seminar on Data Science.

EVENT NAME	DATE	RESOURCE PERSON
Codecon (Coding Competition)	05/03/2020	Ashutosh Kumar and Ajay Pal B.Tech. 2 nd Yr. (CSE)
Techathlon '20	13/12/2020- 14/02/2020	Organized by all societies
Seminar on Data Science	24/01/2020	K.Nawazia and ApoorvKudesia B.Tech. 3 rd Yr. (CSE)



ACM which endorses student's chapter. The IPEC ACM Student Chapter is an organized representative association that upholds the right of students, develop high standards of honor and civic responsibility and promote cooperation between the student body, faculty, and administration.

EVENT NAME	DATE	DETAILS
Codethon3.0	27-12-2020	A coding event for all second- and third-year students can participate with no language restriction.
Webinar on Master Class your guide to placement	12-12-2020	Session is enhancing the placement skill for the student and by the IPEC Alumni
Codethon 2.0	29.11.2020	This is a programming contest, student of 2nd/3rd students are invited to participate on CodeTantra Platform.



CSI Branch at IPEC was inception in September 2017 under the aegis of Department of Computer Science. It is an official student body with 123 motivated student members of IPEC. The benefits and value of CSI membership can be explored from www.csi-india.org.

EVENT NAME	DATE	DETAILS
Prep-Placement	28-11-2020	An online Mock Placement Drive was organized for the students of 2 nd & 3 rd year.
Cryptogram Puzzle	30-08-2020	A total of 15 technology based questions were given to students of 2 nd /3 rd /4 th year.
Webinar on Data Science	19.08.2020	The webinar was all about the hands-on learning of students on implementation of Face Detection
Webinar on IOT	18-10-2020	This session was all about introducing IOT to students of 2 nd /3 rd year through highly intellectual corporate trainer.
LinkedIn Masterclass	28-06-2020	This webinar was all about to optimize LinkedIn profile and to build strong network with people of respective fields.

Departmental Events organized for Students

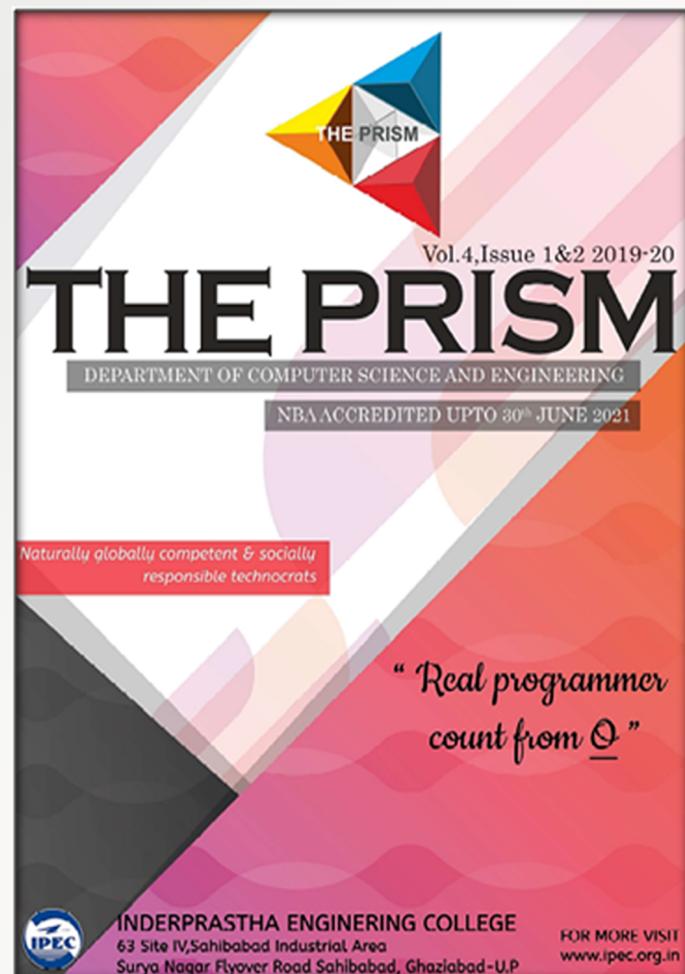
1. A total of 89 events were organized in last four years by the students' societies for industrial exposure of the students.
2. A total of 14 Industrial visits were organized in last three years for students.
3. A total of 9 Guest lectures were organized in last three years for students.

Departmental Magazine



PRISM publishes the departmental magazines. CSE Magazine Society works to highlight and showcase the meritorious and exuberant achievements of the department by its prolific faculty members and students in all the domains. We aim to inspire and motivate all to keep up the spirits high and keep the flag of department's victory in every event flaring high with pride.

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www.ipec.org.in



"A good programmer is someone who always looks both ways before crossing a one-way street."

"Real programmers count from 0."

"Talk is cheap. Show me the code."

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