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Engineering College
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Insider News

A Bi-annual Newsletter

Department of Computer Science & Engineering



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Message from Director's Desk



Dear Readers, "Engineering education is among the key enablers of growth for transforming national as well as global economy. As we continue to strive for academic excellence in engineering education through innovative techniques, ABES Engineering College is fast approaching to become the preferred destination for students from across the country." Equipped with many 'Centers of Excellence', the college encourages its students to participate in a creative exploration of knowledge involving hands-on activities which provide 'learning by doing' environment far different from exam centric rote-learning. We are making best efforts to keep pace with fast emerging technologies so that we are in a position to prepare our students for industry as well as entrepreneurship. Accordingly, the entire academic processes and echo system are being aligned with Outcome Based Education (OBE) system which has become the hallmark of teaching-learning platform in ABESEC. Our every action is focused in creating an ambience suitable for fostering quality education along with research & development activities. The testimony to this is the quality certification of the college by NAAC, NBA and ranking by NIRF. We are looking forward to develop in each of our faculty, staff and student, the ability and passion to work wisely, creatively and effectively for the betterment of the mankind.

Prof. (Dr.) Shailesh Tiwari

Message from HOD's Desk

It is my pleasure and honor to introduce the Department of Computer Science & Engineering at NIT Hamirpur (HP). We have state-of-the-art infrastructure, laboratory facilities and highly qualified and experienced faculty to impart quality education. We are proud to contribute to their advancement and the society at large. This brochure highlights the key areas of our activities, strengths, and accomplishments. With the strong support of our dynamic faculty, hardworking staff, and ambitious students, we have created an environment that fosters collaboration, a culture of accomplishment and strong support of ethnic and intellectual diversity. I invite you to come and see for yourself.



Prof.(Dr.) Pradeep Singh

Message from Editorial Team



It is a matter of great pride and privilege for us to present Newsletter of CSE Department, ABESEC. This newsletter is intended to be published twice in a year which serves as a platform to highlight the literary and artistic segment of the CSE Department of ABESEC family. The essential purpose of the newsletter is to inform, engage, inspire and entertain a diverse readership -- including alumni, faculty, staff, students, parents and other friends of the institute by presenting an intimate, timely and honest portrait of the Department -- its people, its activities, its placements, its resources and its mission. The Newsletter also highlights the educational, cultural and sports activities of the Department. In the originality of its conception, in the excellence of its writing and visual presentation and in its commitment to accuracy, healthy discourse and editorial balance, the magazine endeavors to reflect the values and the quality of the department itself. By maintaining the respect and interest of its readers, this newsletter aspires ultimately to inform their opinion of the department and to strengthen their commitment to its welfare. We hope you enjoy reading this issue as much as we have enjoyed making it.

**Ms. Aditi Arora
Assistant Professor, CSE**

VISION

The Department of Computer Science & Engineering will strive to become an excellent center for research and innovation in various knowledge domains within computer science and between computer science and other disciplines with focus on empowering human potential to deliver service to science and society.

MISSION

To nurture an excellent learning environment and creating opportunities for an individual to emerge as a technocrat who will be able to analyze complex engineering problems in society and provide innovative and fair solutions applying the knowledge of contemporary technologies and tools for the ease of its social acceptance at large.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: To impart strong foundation in basic sciences, mathematics and engineering fundamentals, knowledge and capability.

PEO 2: To be able to comprehend, understand and analyze Computer Science and Engineering problems and relate them with real life.

PEO 3: To provide in depth knowledge to design and develop novel products and innovative solution for real life problems in Computer Science and Engineering field and related domains.

PEO 4: To inculcate a conviction to believe in self, impart professional and ethical attitude, nurture to be an effective team member, infuse leadership qualities, build proficiency in soft skills and the abilities to relate engineering with the social issues.

PEO 5: To impart exhaustive knowledge of Computer Science & Engineering to take up key assignments in industry, undertake and excel in higher studies and Research & Development in computer science, related engineering fields and management.

PROGRAM OUTCOMES (POS)

Engineering Graduates will be able to:

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first

principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO 1: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO 2: The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success, real world problems and meet the challenges of the future.

PSO 3: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning and a zest for higher studies and also to act as a good citizen by inculcating in them moral values & ethics.

WORKSHOPS AND GUEST LECTURES

1. Gate Preparation and Placement on Product based Companies

Date: 1/8/2020

Resource Person: Mr. Priyank Parihar

Objective: How to prepare for GATE 2021. Since GATE is highly competitive entrance exam, students' needs proper guidance for its preparation. This webinar will help students to know best tips to qualify GATE 2021 in first attempt.

Participants: Faculty and Students Coordinator: Ms. Pooja Saharan

2. Webinar on Constitutional Obligations: Fundamental Rights, Fundamental Duties and Directive Principles of State Policy

Date: 5/9/2020

Resource Person: Dr. Naresh Mahipal (Assistant Professor) Department -Law Centre II ,Faculty of Law, University of Delhi

Objective: : To impart knowledge and better understanding of the Constitution of our country as it binds the citizens together and helps in difficult times. So to understand this, an endeavor is made to initiate the discussion by organizing 1st webinar on the abovementioned topic.

Participants: Faculty and Students Coordinator:- Dr. Amit Agarwal

3. Webinar on How to Bring Invention from Lab to Market?

Date: 15/09/2020

Resource Person: Dr.PareshKumar C.Dave (Founder & MD) IP Moment services

Objective:

- Different type of Intellectual Property Rights
- What is Patent and Criteria of Patentability?
- Different type of patent applications
- Patent Filing Process
- Differences between Publishing Research Article and Patent

Participants: Faculty and Students Coordinator :- Dr. Amit Kumar Agarwal

4. Webinar on Research Article writing and Publication and Ph.D Thesis Writing

Date: 22/09/2020

Resource Person: Dr. Munesh Chandra Trivedi (Associate Professor) NIT Agartala

Objective: The Objective of this Webinar is making the participants understand the nuances and intricacies of publication of research articles and PhD thesis writing with an emphasis on complexities involved in publication of research articles in peer-reviewed and indexed journals (National and international)

Participants: Faculty and Students Coordinator:- Dr. Amit Agarwal

5. Webinar on General Provisions Society must know -Rights and Duties enshrined in our Constitution, Cyber Crimes & Matrimonial offences.

Date: 26/09/2020

Resource Person: Advocate Rajiv Malik, Patiala House Court Delhi.

Objective: To understand the structure of executive, legislature and judiciary and also to understand philosophy of fundamental rights and duties.

Participants: Faculty and Students **Coordinator :- Ms. Aditi Arora**

6. Webinar on Strategy to Crack Gate, ESE & other Competitive Exams

Date: 21/10/2020

Resource Person: Mr. Suneel Tiwari (Sr. Faculty Member & former HoD) Made Easy Group

Objective: This webinar focused on:

- In & out of GATE & other competitive exams
- Various career opportunities
- Productive utilization of Covid period for academics & competitive exams
- Do's & don't to become a topper
- Why and why not approach?
- Many arrows in one quiver
- Art of making effective notes
- How to face different phases of recruitment (Written Test/GD/Interview)

Participants: Faculty and Students **Coordinator: Dr. Gaurav Dubey**

7. Expert Talk on Business Analytics

Date: 21/11/2020

Resource Person: Dr. Bharti Sharma (MBA/MSIT Faculty) Business Analytics, Florida Atlantic University -College of Business Boca Raton, Florida.

Objective: 1. The session is proposed to fulfil the gap between academia and industry.
2. Topic and content are selected on the basis of students' requirement for their growth in the IT industry.
3. The talk also contains cut edge technologies in today's environment for Business analytics

Participants: Faculty and Students **Coordinator: Ms. Pooja Saharan**

8. Webinar on Stress Management (A time to bid Adieu for 2020)

Date: 28/12/2020

Resource Person: Prof. (Dr. Navneet Arora) Sr. professor, Mechanical Engineering, Indian institute of Technology, Roorkee and Philanthropist.

Objective:

- To provide efficient guideline to all stakeholders of education system, especially our students to get it as a catalyst for Stress and Inner Immunity Booster.
- Managing Work-Life balance
- Understand different theories/models of stress
- Mapping the causes and effects of stress
- Evaluating your stress levels and dealing with stress positively
- Learn about the sources and symptoms of different types of stress Management

Participants: Faculty and Students **Coordinators: Mr. Rohit Rastogi, Ms. Pooja Saharan**

9. Webinar on Time Management (An Occasion to salutation for 2021)

Date: 4/1/2021

Resource Person: Dr. Gopal Krishna Sharma, Sr. Asst. Professor, Dev Sanskriti Vishwavidyalaya, Haridwar, A seasonal Speaker

Objective:

- Identify your own particular time wasters and adopt strategies for reducing them.
- Recognize the variety of causes of procrastination and apply relevant techniques to overcome these.
- Clarify and prioritize your objectives and goals, by creating more planning time.
- Adopt appropriate strategies for dealing with interruptions and anything else which 'steals' your time.
- Use practical techniques for organizing work.
- Reduce time spent in meetings yet contribute more effectively.
- Define assertiveness and related types of behavior.
- Choose assertive responses to different time management situations

Participants: Faculty and Students

Coordinators :- Mr. Rohit Rastogi, Ms. Pooja Saharan

10. Webinar on Research Methodology

Date: 9/1/2021

Resource Person: Dr. Pinaki Chakraborty, Asst Professor, Department of Computer Engineering, Netaji Subhas University of Technology Delhi.

Objective: The webinar is designed to impart the participants with knowledge of Research, research methods, research process, and the use of research tools and techniques, writing and presentation skills to the young researchers.

Participants: Faculty and Students

Coordinators: Ms. Mala Saraswat, Ms. Aditi Arora

11. Webinar on Intellectual Property Right on Patents, Designs, Innovation Patents & Utility Models

Date: 15/01/2021

Resource Person: Mr. Pareshkumar Dave. Founder IP Moment - Director IP Cofounder Science Finder Association.

Objective:

- Different type of Intellectual Property Rights
- What is Patent and Criteria of Patentability?
- Different type of patent applications
- Patent Filing Process
- Differences between Publishing Research Article and Patent

Participants: Faculty and Students

Coordinators: Dr. Amit K Agarwal, Ms. Amrita Jyoti

12. Webinar on Leadership Management: Demand of Time

Date: 13/02/2021

Resource Person: Prof. Manoj Sharma, Training Consultant and Coach (EX-PO BOB, EX GM - SPENTEX INDUSTRIES LTD.)

Objective:

- Identify current time management practices
- Define common time wasters
- Describe effective strategies to improve time management

Participants: Faculty and Students

Coordinators: Mr. Rohit Rastogi, Ms. Pooja Saharan

FACULTY CORNER

FACULTY PUBLICATIONS

- Mradul Jain, Desktop Voice Assistant With Speech Recognition Intelligence (DVAbot), International Journal for Research in Engineering Application & Management (IJREAM),Volume 6,Issue 2,2020.
- Anuj Kumar Prajapati, Abhishek Pandey, Mradul Kumar Jain, Sentimental Analysis on E-commerce Women's Clothing, International Journal for Research in Engineering Application & Management (IJREAM),Volume 6,Issue 5,2020.
- Mala Saraswat, Object Detection using Convolution Neural Network, JAC: A JOURNAL OF COMPOSITION THEORY,Volume 13, issue 5,2020.
- Mala Saraswat, Recon Tool, JAC: A JOURNAL OF COMPOSITION THEORY,Volume 13, issue 5,2020.
- Shailesh Tiwari, Performance evaluation of Wireless Nanosensor Networks under interference, Nano Communication Networks, Elsevier,Volume 25,2020.
- Pradeep Kumar Singh, Deep neural network based anomaly detection in Internet of Things network traffic tracking for the applications of future smart cities, Transactions on Emerging Telecommunications Technologies,Volume 1,2020.
- Vikash Yadav, A New Improved Approach for Feature Generation and Selection in Multi-Relational Statistical Modelling using ML, Journal of Scientific and Industrial Research,Volume 79,Issue 12,2020.
- Medha Malik, IoT: Performance Analysis of RPL Protocol Using CONTIKI OS Within Cooja Framework, IJRAR,Volume 7,Issue 3,2020.
- Pradeep Kumar Singh, A systematic survey on internet of things: Energy efficiency and interoperability perspective, Transactions on Emerging Telecommunication Technologies,Wiley,2020.
- Harivans Pratap Singh,Shailesh Tiwari, Segmentation Techniques through Machine Based Learning for Latent Fingerprint Indexing and Identification, Journal of Scientific & Industrial Research,Volume 79,Issue 3,2020.
- Anil Kumar Dubey, Network Embedding Architecture using Laplace Regularization-Non-Negative Matrix Factorization for Virtualization, Microprocessors and Microsystems, Elsevier,Volume 81,2020.
- Pradeep Kumar Singh, Predicting Attitude of Indian Student Towards ICT and Mobile Technology for Real-Time: Preliminary Results, IEEE Access,Volume 8,2020.
- Harsh Khatter, An Algorithmic approach for recommendation systems for web blogs and microblogs, Journal of Xian Shiyou University, Natural Sciences Edition, Volume 16,Issue 9,2020.
- Prabhat Singh, Harsh Khatter, Global Positioning System based Automated Toll and Traffic Management System for Indian Roads, Journal of Xian Shiyou University, Natural Sciences Edition,Volume 16,Issue 9,2020.

FACULTY ACHIEVEMENTS

- Mr. Krishna Vir Singh Received 5 Year of Service Award from CISCO Networking Academy.
- Mr. Krishna Vir Singh Achieved International Certification for CISCO Certified Network Associate [CCNA] (Exam Code: 200-301) by CISCO.
- Mr. Krishna Vir Singh Qualified Instructor Training for IoT Security from CISCO Global Academy.
- Mr. Anand Kumar Srivastav(Assistant Professor ,CSE) developed many Internal Project for ABESEC :
 - ❖ Admission Portal for ABES Engineering College.
 - ❖ Online Resume Portal for CCPD Department (ABES Engineering College)
 - ❖ Publication Repository for ABES Engineering College
 - ❖ Online No-Dues Application for ABES Engineering College
- Mr. Harivans Pratap Singh (Assistant Professor, CSE) has completed the diploma in RPA design and development course. He is running the centre of excellence on RPA and Software testing.

PATENTS

Date of Filing	Title of Invention	Field of Invention	Employee Code	Application Status	Publication Date
11-02-2020	HUMAN MEMORY ASSISTIVE DEVICE	COMPUTER SCIENCE	Dr. Santosh Kumar	Publish	22-01-2021
04-02-2021	A SYSTEM AND METHOD FOR RFID TAG BASED CHALLAN GENERATION FOR WRONG LANE DRIVING	ELECTRONICS	Harsh Khatter Pradeep Kumar Singh	Publish	12-02-2021
14-01-2021	SYSTEMS AND METHODS FOR CONTROL AND MANAGEMENT OF SET-TOP BOX	Communication	Harsh Khatter Pradeep Kumar Singh	Publish	22-01-2021
11-01-2021	INTELLIGENT THREE LAYERED SECURITY LOCK	Communication	Harsh Khatter Pradeep Kumar Singh	Publish	22-01-2021
29-01-2021	INTELLIGENT IOT BASED SMART DELIVERY BOX	ELECTRONICS	Dr. Akash Punhani	Publish	12-02-2021
04-02-2021	SYSTEMS AND METHODS FOR CONTROL OF AN INTERNET OF THINGS(IOT) BASED SMART COOKING APPLIANCE	COMMUNICATION	Dr. Akash Punhani	Publish	12-02-2021
18-11-2020	EXHAUST BASED AUTOMATIC SEED SOWING MACHINE FOR AGRICULTURE APPLICATIONS	MECHANICAL ENGINEERING	Ms. Rashmi Mishra	Publish	11-12-2020

NPTEL CERTIFICATES

S.No.	Faculty name	Course	Score	Semester
1	Prof. Hariom Upadhyay	Python for Data Science	74%	Odd
2	Prof. Hariom Upadhyay	Introduction To R software	85%	Odd
3	Dr. Vikash Yadav	Big Data Computing	60%	Odd

STUDENT CORNER

Comparative Analysis of Placement from 2016 to 2021											
S.no	Session	No. of Student s	Eligible/ Registered	Placed Student s	% Placemen t	Average Placement	No. of Offers	No. of Offers of 5 LPA or more	No. of Offers of 7 LPA or more	Highest Packag e	Compan y Name
1	2018-19	252	235	202	85.96	3.84	323	45	21	10 LPA	Traveloka
2	2019-20	264	244	229	93.85	4.46	488	103	43	27.70 LPA	ADOB E
3	2020-21	199	186	182	97.89	4.86	539	162	96	35 LPA	AMAZON

FEW GLORIOUS PLACEMENTS

Harshit Gupta
Goldzman Sachs
20 LPA: Batch 2018-22



Udit Gupta
Ni Instruments:
12.5 LPA: Batch 2018-22



Sukritin
Amazon
35 LPA: Batch 2017-21



Aakansha Gupta
Walmart
20 LPA: Batch 2017-21



Yukta Anand
ADOBE
27.7 LPA: Batch 2016-20



HIGHER STUDIES

Name of student enrolling into higher education	Name of institution joined	Name of programme admitted to
Jay (2019-2020)	Delhi School of Economics	MBA
Amrendra Pratap Singh (2019-2020)	NIT Durgapur, West Bengal	M.TECH

STUDENTS PARTICIPATION IN EXTRACURRICULAR ACTIVITY

S.no	Year	Name of the award/ medal	Team / Individual	University/State/ National/ International	Sports/ Cultural	Name of the student
1	2019-20	Silver	Individual	Zonal Level	Badminton	Kartikeya Sharma
2	2019-20	Gold	Team	National Level Sports Fest in IMSEC	Football	Anirudh
3	2019-20	Gold	Team	State Level	Band Wars	Ishaan
4	2019-20	Gold	Team	State Level	Fashion Choreography	Tanya Singhal
5	2019-20	Gold	Team	State Level	Fashion Choreography	Aarushi Rai
6	2019-20	Gold	Team	State Level	Fashion Choreography	Aryan Chaudhary
7	2019-20	Gold	Team	Zonal Level	Fashion Choreography	Tanya Singhal
8	2019-20	Gold	Team	Zonal Level	Fashion Choreography	Aarushi Rai
9	2019-20	Gold	Team	Zonal Level	Fashion Choreography	Aryan Chaudhary
10	2019-20	Bronze	Team	Zonal Level	Nukkad	Aditya Mazumdar
11	2019-20	Gold	Team	HBT University	Cricket	Ankur Kr.
12	2019-20	Bronze	Team	Zonal Level	Group Dance	Bhumika Singh
13	2019-20	Bronze	Team	Zonal Level	Nukkad	Vudit Gaur
14	2019-20	Gold	Team	State Level	4x100 m Relay	Vidisha Arora
15	2019-20	Gold	Team	Zonal Level	4x100 m Relay	Vidisha Arora
16	2019-20	Gold	Team	HBTU Kanpur	4x100 m Relay	Vidisha Arora
17	2019-20	Silver	Team	RKGIT	Football	Rajat Jha
18	2019-20	Gold	Team	HBTU Kanpur	Cricket	Ishan Yadav
19	2019-20	Silver	Team	Inter College National Sports Fest, KIET	Cricket	Ishan Yadav
20	2019-20	Gold	Individual	Inter-college competition	100m Race	Vidisha Arora

TECHNICAL TRAININGS

Department of Computer Science and Engineering provides various technical training programs to the students other than regular academic teaching. These technical training programs primarily focus on fundamental and advance concepts of Computer science & Engineering including subjects like Data Structure, DBMS, Design and Analysis of Algorithms, Object-Oriented Programming, and Python. Our expert and certified faculty members are training on these advance concepts. The technical training imparts more practical knowledge than theoretical to the students, which is helpful in their placement. CSE Department provides this training year wise; for example, students learn Advance Data Structure, Python, and competitive coding skills in the Second year. In the 3rd year, the focus is mainly on competitive coding, which is helpful in the selection of students in those companies that mainly focuses on programming skills. We also teach Full stack development, data science and advanced algorithms in 3rd year. As the part of placement readiness programme, we also impart the knowledge for 4th year student through these technical programmes.

Sr. No.	Module of Training	Program runs for B.Tech (CSE)	Duration
1	Data Structure /Advance Data Structure	2 nd Year	44+36 hours
2	Python Programming	2 nd Year	44 hours
3	Object Oriented System	2nd Year	30 hours
4	Design & Analysis of Algorithm	2 nd Year	39 hours
5	Database Management System	3 rd Year	30 hours
6	Full-Stack Development	3 rd Year	40 hours
7	Data Analytics	3 rd Year	40 hours

INDUSTRY CONNECTS

DETAILS of MOU's

Organisation with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
CISCO NET ACAD	2015 - till now	5 Year, Autorenewal	2015-16 CCNA R & S Training
			2016-17 CCNA Routing & Switching : Routing and Switching Essentials, Introduction to Network, Connecting Networks, Scaling Networks
			2017-18 CCNA Routing & Switching : Routing and Switching Essentials, Introduction to Network, Connecting Networks, Scaling Networks
			2018-19 CCNA Cyber Ops
			2019-20 CCNA Cyber Ops
Tech Mahindra	2016-17	1 Year	CEH Training
			LFC TRAINING
			COE N/W ACADEMY
			FDP
			TECHNO-MOMENTUM'17
Codechef	2018-19	1 Year	Training Program
Times	2018-19	2 Year	GATE Classes 2018, 2019
	2019-20		
UI Path	2019-20	1 Year	Faculty workshop, Student training, student certification
Comptia	2019-20	1 Year	Training Program
EC-Council	2019-20	1 Year	Webinar
Konsultera	2019-20	1 Year	Submission of research project proposal on " Digital solutions in Agriculture" to NAHEP
Pinak Energy	2019-20	1 Year	Submission of research project proposal on to DST Under SERI

ALUMNI CONNECT

ALUMNI IN GOVT. JOB/ DEFENSE SERVICES

Name of Alumni	Batch	Serving as in Capacity of
Rachita Arora	2011-15	Lieutenant, Indian Army
Shwet Singh	2013-17	Lieutenant, Indian Army
Mahesh Sahai	2012-16	Lieutenant, Indian Army
Kumudini Tyagi	2014-18	Sub Lieutenant in Indian Army, First women to operate from flight decks of warships
Ayush Patel	2016-20	Qualified IBPS PO, Joined Canara Bank

ALUMNI AS ENTREPRENEUR

Name of Alumni	Batch	Startup Name
Vaibhav Gupta	2005-09	Green Mint Restaurant, Dubai
Harshvardhan Singh	2014-18	Total Management Outturn
Harikishan Agarwal	2012-16	Educant Pvt. Ltd.



ALUMNI SPEAKS

Durgesh Kumar

My four years at Computer Science Department, ABES Engineering College have been excellent and a memory to cherish for a lifetime. The years spent here have been full of learning opportunities that were full of fun and frolic and sometimes with academic grind that one has to go through. The international exposure makes you a better man to face the challenges of the corporate world.



Kartik Sachdev

"I would like to pay my gratitude towards the Department of Computer Science and Engineering, ABES-EC. With their support I was able to develop skills that helped me crack the interview process. Their extended support helped me focus on my goals besides academic curriculum."

SANSKRIT-VEDIC WISDOM FROM INDIA:

Scientific Aspects in Modern Perspective

The Sanskrit language is much older than Pali. Sanskrit had been a language that was in vogue from the Vedic period. Sanskrit, which is considered an Indo-Aryan language, was the liturgical language of Jainism, Hinduism, and Buddhism. Pali is considered a Prakrit language or a middle Indo-Aryan language.

Sanskrit stands close to the root of English and most other European languages, classical and modern. Many English words are related to words and word forms that also exist in Sanskrit. Its study illuminates their grammar and etymology [1].

Sanskrit which literally means 'perfect or refined' is one of the old human languages. Sanskrit is also regarded the world over for its unique way of learning in which long text are memorized verbally called as Shruti, four Vedas, the Upanishads all have been preserved through this techniques [2].

While world over civilizations will be developed by libraries to store knowledge in India through the tradition of India, all the knowledge were stored in the human brain and pass from one generation to another. Since ages, this has been a mystery to the world, now through the modern scientific research; this mystery seems to be unraveled at last. 'A study on Sanskrit effect' which has been reported in the journal 'Scientific Americans' has claimed that memorizing Vedic Mantras enhances the brain regions associated with cognitive functions such as memory [3,4]. The following diagram Figure-1 describes the location of human vocal cord and the Sanskrit syllables related to them.



The term Sanskrit effect was coined by American neuro scientist scholar Dr. James Hartsel who studied Sanskrit at Howard and Columbia University. He discovered that memorizing Vedic Mantra increases the size of brain regions associated with cognitive processing. This extensive research established that through this unique memorizing technique used in traditional Sanskrit learning, brain's capacity significantly increases [3].

As Sanskrit is used as communication language by Ishwara, also in Bhagavad Geeta, Shlokas are directly spoken by almighty lord Krishna. They are not simple words, the sound emanating from the sound of Bhagawans' vowels gives peace of mind. The transcendental sound enlightens every single neuron cells of our brain. That's the power of Sanskrit. Chanting Sanskrit shlokas produces a vibrational energy full of positivity that strengthens our mind and soul (psycholinguistics).

During childhood, the prayer we all used to chant in our schools on daily basis and also the Gayatri Mantra is still remembered to us. Although the Sanskrit shlokas are not easy to memorize but according to researchers; when mind has to work, learning stuck better, the cognitive effort in learning shlokas yields a positive result [7].

According to researchers at NASA, Sanskrit is the finest language to be used and considered fit for complex fields like Artificial Intelligence where computers can be literally designed in such a way that they can think for themselves and not have to be completely dependent on human commands [5]. The below figure 2 explains the phonological analysis of Sanskrit Varnmala.

The Sanskrit alphabets and phonology are most scientific innovations based on human physiology. It is widely believed that Sanskrit Mantras, when recited in combination with the sound vibrations, have a specific effect on the mind and the psyche of the individual [6]. The special Sanskrit letters are used for specific purposes and as Beej Mantra in different Vedic worships (Pl. refer figure 3).

The SANSKRIT ALPHABET with VEDIC EXTENSIONS

यं आ ओ
यं स म
यं र्गः त्
ॐ अमीते ऋ अंग्रो
गणना त्वा गणपति
वथान सर्वमिजगद्यक्षम्

Modern world is getting fascinated and it's the right time that we connect to our basics and get full benefits of legacy of our forefathers. 'Jayatu Sanskritam.'



Mr. Rohit Rastogi
(Sr. Asst. Professor-CSE)

Congratulations!!



Aditya Gupta



Aryan Sharma



Harsh Agrawal

B.Tech. Final Year, CSE

This team has been awarded with a **Third Prize** in the
Alibaba Cloud Global AI Innovation Challenge

PRIZES

\$5,000 Cash Prize (Pre-Tax) | \$2,500 Alibaba Cloud Credits | \$2,500 PAI Credits

under the mentor ship of



Mr. Prabhat Singh
Faculty, CSE Dept.



Mr. Yogesh Mehra
Alumni, CSE Dept., ABESEC

Credits**Chief Patron**

Shri Neeraj Goel
President

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