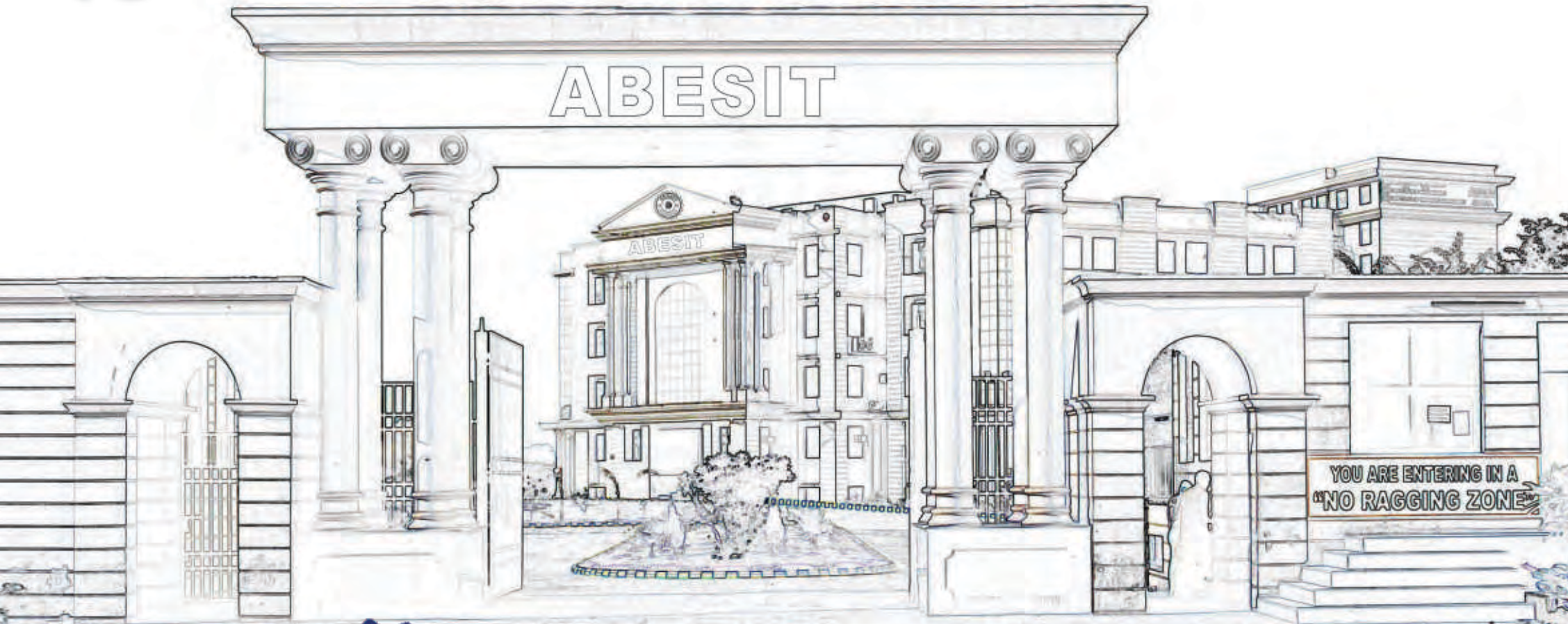


**10** Years of  
Excellence



# ABESIT

College Code: 290

*Redefining Education, Transforming Lives*

Information Brochure  
Session 2017-2018

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## From the Chairman's Desk

**I am delighted to introduce you to ABESIT, one of the premier Engineering Institute of Dr. APJ Abdul Kalam Technical University and one that is increasingly being recognized pan India for providing a futuristic ecosystem conducive for transforming students into professionals that delight the Industry.**

With a self-motivated faculty, a quality curriculum, a strong Industry partnership, and excellent infrastructure resources, the B.Tech. programme produces 500+ sharp, innovative and holistically groomed technocrats every year. The companies which come for recruitment find our students analytically strong, conceptually sound, and highly sensitive to the context – qualities that are essential to deal with the dynamism associated with career roles in this era. These virtues and competencies get internalized in every student at ABESIT, primarily because each batch benefits from over a decade of continuous improvement in our curriculum, teaching methodologies, experiential learning projects, in-person mentorship and extracurricular activities.

This year, we have taken several strategic initiatives to understand and bridge the Industry Academia gap thereby spearheading the mission to become the most preferred recruitment destination of top companies across the country and abroad. A renewed emphasis has been laid on

**I invite you to embark on an enriching journey at ABESIT and I am confident that your stay here will be the most educative and rewarding experience of your life so far.**

Godspeed!

### **Ashu Goel**

(Recipient of the coveted Vice Chancellor's Choice Edupreneur Award, 2013)

establishing state -of- the- art Centers of Excellence in collaboration with various National and International agencies such as IIT Bombay, Texas Instruments (USA), APS GmbH (Germany) and others. I firmly believe that these would usher in opportunities for you to get hands on experience with latest technologies, thereby helping you develop skills in an environment that combines real world application with conceptual rigor.

Apart from providing you with outstanding learning infrastructure, the Institution offers a plethora of sports and cultural activities. We have several student-run clubs for you to choose from, which shall provide you with wonderful prospects to participate in national and regional level competitions and culture fests.



## Mission

Invest in continuous enrichment of knowledge base through research aligned with the future needs of Industry and Society, in collaboration with Industry and complemented by developing state of the art Infrastructure

## Vision

ABESIT will be a leader in the integration of:

Teaching and Learning

Advancement of Knowledge base through Research and Scholarship

Leadership in Service and Outreach

## Our Core Values

Academic Excellence through integration of Teaching, Research & Services

Valuing workforce, Inculcating belongingness & Professional Integrity

Decentralized process oriented working system

Transparency and Freedom of thought

Committed towards Perfection



**ABESIT**

## About **ABESIT**

The decade following the global financial crisis in 2007-08 warranted innovative ideas and initiatives to be taken in the education space to effectively and efficiently upskill young workforce to meet the needs of dynamically changing global landscape. The establishment of ABES Institute of Technology (ABESIT) was the outcome of one such innovative initiative.

Led by Mr. Ashu Goel and proactively supported by the stalwarts of teaching fraternity, a group of enlightened individuals set-up ABESIT in 2007. From hallway conversations with faculty, staff and industry to extensive deliberations with senior Advisors and Eminent Educationalists, ABESIT is a product of a 'do whatever it takes' attitude coupled with supreme passion and perseverance of its leaders to ensure par excellence education to students. It has indeed come a long way today to become a coveted Center of Learning for students from across the country.

Located at a strategically advantageous position on the National Highway 24, ABESIT is spread over 17 acres of land. The lush green, sprawling campus with its magnificent architecture, landscaped gardens and world class infrastructure provides idyllic environment for students to engage in engineering studies, cutting edge research, latest technology developments, and plethora of extra-curricular activities, nurturing a holistic development of young minds.

At the core of ABESIT is its faculty – a group of highly qualified and accomplished researchers, educators and practitioners possessing a diverse experience in their respective domains. The faculty members keep themselves updated on present realities through extensive involvement in cutting-edge research and developments in their areas of expertise besides honing new ways of imparting learning to the students. A regular interaction, which goes beyond the realms of classrooms, between the students and faculty enables a self-driven and self-motivated desire in students to freely express themselves and hence learn in a comforting environment. Guest lectures, workshops and seminars are organized by faculty to supplement routine curriculum, which provides an opportunity for students to interact with domain experts.





ABESIT has also provided the necessary fillip to Innovation and Research by developing multidisciplinary Centers of Excellence that focus on different areas such as Information Technology, Big Data, Robotics, Structural Design & Analysis, Computer Aided Design, Renewable Energy (Solar) and more. These centers have become immensely popular with students primarily because of the practical exposure they get from some of the most sort-after professionals from India and overseas. This has played an instrumental role in nurturing talent, which is being widely appreciated by various multinational companies pan India.

This year, ABESIT became the first Institute to set-up a dedicated in-person, experiential learning based mentorship platform for Industry readiness and Career Development. The center named 'Margdarshak' is the culmination of extensive deliberations between top MNCs, academia and the Skill India Mission fraternity and provides tailor made trainings to each student. The mentorship offered by senior Industry Experts develops the ability in students to excel in dynamic Industry environments by helping them to internalize the entire gamut of work ready competencies. This learning, which happens ahead of time, has brought windfall gains, not only for the students but also for the Industry, which now finds the right fit candidates in large numbers in the Institute.

ABESIT has always been a hub of innovative activities and has encouraged students to participate in co-curricular and extra-curricular areas. Be it a debate competition or designing a poster or programming a robot to clean the campus, young talented students participate in competitions throughout the year and represent the college at National and International events. Our participation in the Electric Solar Vehicle Championship in 2016 and Elite Go-Kart Championship 2016 added feather to our cap. Our students also made us proud at the Autosol 2016 programme in Germany where they made significant contribution to Advanced Robotic Control for Industrial Automation.

Supporting the efforts of all members of the ABESIT fraternity to provide an all-round development of students, is a state of the art infrastructure of ABESIT. Technologically equipped classrooms, modern laboratories, automated library with rich collection of books – both physical and digital, huge auditorium, numerous seminar and conference halls, gymnasium, open air amphitheater and a 700+ capacity student hostel provides world class accommodation and recreational facilities.

ABESIT's efforts for strengthening its teaching and providing a conducive environment for transforming students have paid handsome dividends by enhancing the Institute's reputation. The college has been felicitated by numerous honors and recognitions from across the country. In 2014, the Institute received the coveted "Shiksha Gaurav Puraskar" for outstanding and exemplary contribution to Education, by Centre for Education, Growth and Research (CEGR). In the same year, 5 faculty members were decorated with "Teacher's Excellence Award" by Confederation of Education Excellence (CEE). A large number of conglomerates including Tata Consultancy Services (TCS), Nokia and others have expressed their admiration for the college and honored it with certificates of appreciation and partnership awards. The Institution also received the title of "Best Engineering Institute (Self-Financed) in NCR" by Shri Anand Kumar, founder of super 30, in the year 2015.

A feature that sets apart ABESIT and makes it unique amongst its peer schools is the personalized attention and value based learning provided to each and every student. The attitude of excellence and going beyond the call of duty percolates top down and has been infused in each and every member of the ABESIT family. With the vision to effectively integrate teaching, learning and service to transform students into compelling technocrats, ABESIT has been successful in imbibing its core values of student focused teaching, transparency, openness, stakeholder mentality, and Integrity in every corner of the campus.

As the global business scenario gets increasingly competitive and dynamic, ABESIT is all set to prepare students by providing a diverse and challenging environment where they can learn, grow and emerge, ready to lead and inspire.



# ABESIT 2016

## KNOWLEDGE PARTNERS

12 Centers of Excellence  
(Highest in AKTU)

## RECOGNITION

Awarded  
"Best Engineering Institute  
in NCR" by Shri Anand Kumar,  
Founder of Super 30

## ACADEMIC EXCELLENCE

- Student secured 6<sup>th</sup> Rank in AKTU Merit List of 2016
- "Teachers Excellence Awards" of Confederation of Education Excellence received by various faculty members

## MoUs

12 MoUs signed with  
Top Corporate houses for  
empowering young Technocrats

## OVERSEAS OPPORTUNITY

Our Faculty and Students' got  
Training in Advance Robotics,  
in Germany

## PLACEMENTS

- Maximum recruitment diversity in AKTU
- Over 100+ companies including IBM, HCL, CSC, ABP News, Cinda Engineering, Arabol Lubricants, Manlift India visited campus & offered varied job roles to students

## MENTORSHIP CENTER

MARGDARSHAK – An in-person,  
Experiential Learning  
based Mentorship Program for  
Industry Competencies &  
Career Development

## IN-HOUSE TRAINING

- 5 Faculty Development Programs approved and sponsored by AKTU
- 60+ Workshops and Seminars

## Admission Procedure (B.Tech. 1<sup>st</sup> Year)

- Candidates seeking admission are advised to appear in UPSEE entrance test to be held in April 2017.
- 10% of the total sanctioned seats will be filled by JEE (Mains) 2017 or UPSEE 2017 for Non U.P. domicile candidates
- Candidates interested in admission in ABESIT may opt for this college at the time of counselling
- Against the management quota seats & vacant seats, if available, the direct admission will be done on merit of the relevant entrance test, as per university guidelines from among the candidates who approaches for admission.

## Eligibility Criteria (B.Tech. 1<sup>st</sup> Year)

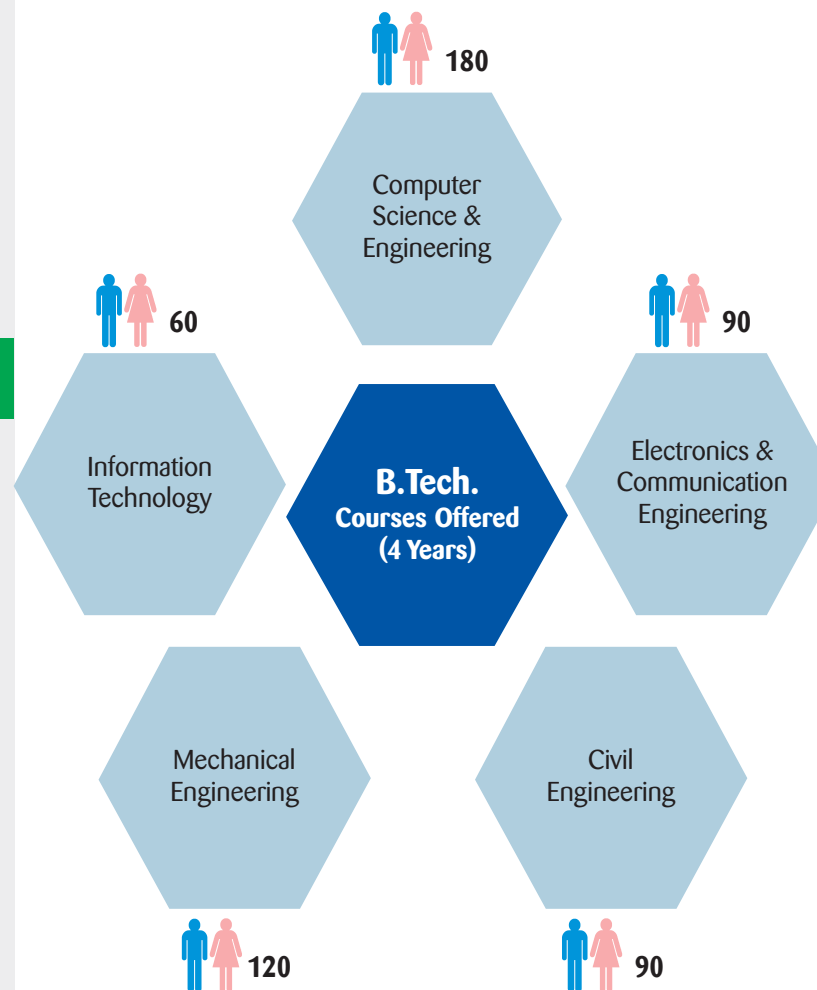
### Through Counselling

- Candidate must have passed the class XII qualifying examination without grace in two compulsory subjects namely Physics and Mathematics and any one of Biology, Chemistry, Biotechnology and Technical Vocational subject with a minimum aggregate of 45% (Gen) and 40% (SC/ST) marks in aggregate in required three subjects from any Institute located in U.P or whose parents are domicile of UP

### Through Direct Admission

- Candidate must have qualified the relevant entrance test from any state of India in the preference order of JEE (Main) 2017, UPSEE 2017
- Candidate must have passed the class XII qualifying examination without any grace from any recognized board /University
- He/She should have secured a minimum aggregate of 50% (Gen) and 45% (SC/ST) marks in the required subject combination taken together without any grace marks

# Courses Offered at ABESIT



## Admission Procedure (Lateral Entry in B.Tech. 2<sup>nd</sup> Year)

- Candidates seeking admission in the second year of Engineering can apply through the counselling
- Candidates may also seek direct admission without going through counselling subject to availability of seats and eligibility

## Eligibility Criteria (Lateral Entry in B.Tech. 2<sup>nd</sup> Year)

### Through Counselling

- Candidate must have passed 3 years Engg. Diploma in any branch of Engineering except Agriculture, Pharmacy and Architecture, from an Institute located in UP and recognized by the Board of Technical Education, U.P. (or any one of whose parents are domicile of U.P.) with min 45% (Gen) and 40% (SC/ST) marks
- Candidates with 3 years B.Sc. Degree and mathematics as one of the subject in class XII from any recognized University having minimum 45% (Gen) and 40% (SC/ST) aggregate marks

### Through Direct Admission

- Candidate must have Min. 50% (Gen) and 45% (SC/ST) aggregate marks in qualifying exam without any grace, from an Institute located in U.P. and recognized by the Board of Technical Education, U.P. (or any one of whose parents are domicile of U.P.)

**ABESIT**

## Academic Board

The Academic Board at ABESIT is chaired by Prof. (Dr.) Vipin Garg, Former Vice-Chancellor of C.C.S University, Meerut. The Board is the appellate body responsible for the supervision and development of all academic activities of the college including Teaching, R&D, Innovation, Faculty Development and Industry Engagement. The Academic Board has played a pivotal role in formulating and reviewing policies, rules, guidelines and procedures in relation to academic matters, which has ensured highest quality of teaching, learning and development in the Institution.



Prof. (Dr.) Vipin Garg

### Advisor

Former **Vice Chancellor**, C.C.S. University, Meerut  
Former **Advisor**, All India Council for Technical Education (AICTE), Govt. of India  
Former **Principal/Director**, I.P. (Post-Graduate) College (NAAC accredited with A Grade), Bulandshahar

A renowned academician and a supreme administrator, Prof. Vipin Garg possess over 45 years of rich cross cultural experience, spearheading education sector across the country. A Doctorate in Biotechnology from Karnataka University, Prof. Garg has been at the helm of affairs at various prestigious Institutions and has left an indelible impact with his strategic decision making, vision, leadership, passion and domain knowledge.

### Other Highlights

- Conferred with 'Life Time Achievement Award 2011' by Society for Recent Development in Agriculture
- Awarded as 'Jewel of India' by International Business Council
- Former Member as Nominee of AICTE on Technical Advisory Committee for study areas of Human Resource Development, Institute of Applied Manpower Research, New Delhi and All India Board of Pharmaceutical Education
- Guided many students for Ph.D. degree as well as Post-Doctoral Fellowship and undertaken International visits to countries such as Germany & Japan
- Author of 3 books and 20 Quality Research Publications in International journals of repute



Prof. (Dr.) Bhavesh Kumar Chauhan

**Director**

Ph.D. (Electrical Engineering),  
GBTU, Lucknow

An Alumnus of Aligarh Muslim University, Dr. Bhavesh Kumar Chauhan brings with him over 19 years of teaching, research and corporate experience. He has been an integral part of some of the most coveted Institutions and organizations such as ZHCET-AMU, IIT Delhi, BBD Educational Group Lucknow, VCE Bijnor, ATCO Industries Limited and others. Dr. Chauhan has been a revered mentor to numerous doctorate scholars and has a keen interest in research. His papers have been well lauded and presented at some of the most prestigious Institutions of the world including Massachusetts Institutes of Technology, Cambridge, USA.

**Other Highlights**

- Recipient of 'Young Scientist Award' conferred by Centre for Education, Growth and Research for research publications in International prestigious journal in Technical Education
- Recipient of 'Shiksha Gaurav Puraskar' conferred by Centre for Education, Growth and Research for exemplary contribution to education
- Awarded 'Teachers Excellence Award 2014' by Confederation of Education Excellence (CEE) for his contribution in Research publications
- Member of Central Admission Board, AKTU, 2015-16
- Member of Research Degree Admission Committee (Electrical Engineering), AKTU, 2015-16
- Member of various professional bodies such as IAE, ISTE, IACSIT, IEEE (PES and Smart Grid SIG Group) and IEEE (SMC)
- Member of moderation committee of theory courses for Electrical Engineering for U.P. state and other private Technical Universities
- Honored with 'Rotary Award' for his contribution in Technical Education
- Active publisher and reviewer of International Research journals
- Former jury member for National Level Project Competitions organized by Institute of Electrical and Electronic Engineers (IEEE), India
- Special Invitee to the Board of Studies Committee for Electrical Engineering, AKTU, 2015-16



**Prof. (Dr.) Dilleshwar Pandey**  
**Head, Department of Computer Science  
& Information Technology**  
Ph.D. (Image Processing),  
M.E. (Delhi College of Engineering),  
B.E. (BIT, Sindhri)

Possessing over 26 years of experience in teaching and software development, Dr. Dilleshwar Pandey is an avid researcher and has immensely contributed in transforming computer education in the Institution. Spearheading Innovation and R&D in areas such as Big Data Technologies, Distributed System, Mobile Computing, Digital Image Processing, Soft Computing, and Artificial Intelligence. Dr. Pandey has been pivotal in conceiving and organizing Faculty Development Programs to stay abreast with latest developments. He has guided not only students but also research scholars across the country, especially in area of Image processing. He has also contributed through publishing numerous papers in journals of National and International repute.

#### **Other Highlights**

- Instrumental in setting up Big Data and IoT Lab in association with Datreon in ABESIT
- Promoted R&D activities by successfully conducting national workshops, seminars, conferences and convocation in ABESIT
- Awarded "Teachers Excellence Award 2014" by Confederation of Education Excellence for outstanding contribution in Education
- Conferred with 'The Best Paper Award' in International Conference on Recent Advances in Science and Engineering (ICRASE), 2012
- Awarded National Merit Scholarship throughout undergraduate and graduate level

A Scientist of International repute, Dr. Sudhir Kumar Goyal has a rich and diverse experience of over 30 years as a researcher, academician and administrator, working with top National and International Institutions. An Alumni of IIT Roorkee, Dr. Goyal obtained his doctorate degree from University of Idaho, USA, where he worked closely on a strategic project with NASA. Dr. Goyal spearheaded several critical assignments in his 21 year stint in USA before coming back to India and taking charge as Director of BSA College of Engineering and Technology, UP in 2014. Later, he was handpicked to Head the Civil Engineering Department at ABESIT.

#### **Other Highlights**

- Worked for 18 years as an Eminent Hydrologist at Idaho State Department of Water Resources, Boise Idaho, USA
- Worked at National Institute of Hydrology (NIH), Roorkee, as Scientist, from 1986-1993
- Selected as a visiting Scientist at International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, the Netherlands.
- Guided undergraduate, graduate and post-doctorate scholars in area of Water Resource Management at the Boise State University, USA
- Authored 9 research publications and published numerous technical reports on GIS based projects and water resource management
- Active member of American Geophysical Union (AGU), USA, American Association for the Advancement of Science (AAAS), Idaho Agricultural Conservation Committee (IACC), Idaho, USA, IE (Institution of Engineers, India) and the Honor Society of Agriculture, Gamma Sigma Delta, USA



**Prof. (Dr.) Sudhir Kumar Goyal**  
**Head, Department of Civil Engineering  
& Dean (Academics)**  
Ph.D. (University of Idaho, USA),  
M.Tech. (IIT Roorkee),  
B.Tech. (AMU, Aligarh)

A dynamic, versatile and a highly intellectual academician, Prof. Sapna Katiyar has over 14 years of teaching experience with leading Engineering Institutions in the country. An ardent researcher, Prof. Katiyar has keen interest in innovating areas such as Adaptive Control System, Image Processing, Communication Systems, Microcontroller and Artificial Intelligence. She is a popular author of seven books covering various aspects of communication - Satellite, Optical, Advanced Communication Systems, Telecommunication and Television for UG and PG courses at all India level.

#### Other Highlights

- Recipient of coveted 'Teacher's Excellence Award' by Confederation of Educational Excellence for "Number of Papers & Books Published"
- Authored 6 papers in Index Journals, 4 papers in International Conferences and 20 papers in National Conferences
- Contributed significantly as an active member of various professional societies such as IEEE, ISTE, ISTD, IETE and Indian Women Scientist



**Prof. Sapna Katiyar**  
**Department In-charge,**  
**Department of Electronics and Communication**  
Ph.D.\*, M.Tech. (Communication Systems), B.E.



**Prof. Avinash Chandra Trivedi**  
**Department In-Charge,**  
**Department of Mechanical Engineering**  
M.Tech. (Manufacturing & Automation),  
B.Tech.

Prof. Avinash Chandra Trivedi has 12 years of experience which includes two years in the field of an Automobile Industry before joining Academics. His area of interest and teaching are Industrial Automation, Engineering Mechanics, Fluid Mechanics, Refrigeration and Air-conditioning, Applied thermodynamics and Thermodynamics. During his academic period, he attended various National Level seminars and workshops.



**Prof. (Dr.) Rakesh Kumar Jain**  
**Head, Department of Applied Sciences & Humanities**  
Ph.D. (Nuclear Science, BHU)

A Physicist with footprints across continents, Prof. Rakesh Kumar Jain possess rich teaching and research experience of over 23 years, working in India and abroad. Dr. Jain has three Post-Doctoral fellowship, one under North Carolina University, USA, second under TRIL programme, Trieste, Italy and third under Seoul National University, Seoul, South Korea. An avid researcher and an active contributor to various National and International journals, Dr. Jain has published over 50 research papers on research areas such as Nuclear Physics, Cosmic Radiation, Dark Matter, Applications of SSNTDs and Nanotechnology. He keeps his interest in alive by engaging in active research in collaboration with BHU, Varanasi and BARC, Mumbai.

#### **Other Highlights**

- Awarded 'Teachers Excellence Award 2014' by Confederation of Education Excellence (CEE) for his contribution in Research publications
- Worked as a Professor in Department of Physics at Echelon Institute of Technology, Faridabad, Haryana
- Worked as Associate Professor in Department of Physics, School of Basic and Applied Sciences at Shobhit University, Meerut (U.P.)
- Worked in the research field of Cosmic Radiation at ANPA (National Agency for Environmental Protection), Rome
- Visited several labs and delivered lectures in abroad universities such as ICTP, Trieste, Italy, Institute fur Strahlen und Kernphysik, Der University, Bonn, Nusallee, Germany, Houston University, Houston, USA.
- Life time member of Indian Physics Association, Mumbai and Indian Physical Society, Kolkata

Possessing a unique blend of Industry and Teaching experience of over 30 years, Prof. Sandeep Garg has been a versatile professional, having worked with some of the most coveted organizations across the world. A Mechanical Engineer by qualification, Prof. Garg has been a consultant and trainer at many reputed industries across the globe such as SRPL, ITC, SAMTEL, HERO, IR, BEL, CEL, Dabur, ECE, WPIL, Minda, CST Berger and Waschle Ideal. He is a renowned trainer of Mechanical Engineering Design & Analysis Software and has trained more than 5000 professionals in India and abroad. He has played an influential role as a member of the Academic Council of A.N.A. Group of Institutions, Bareilly and of Board of Studies of Mechanical Engineering, MTU Noida.

#### **Other Highlights**

- Founder of CADPLUS Group of Companies, providing consultancy in the avenue of Product Design and Reverse Engineering
- Received trainings on FEM/FEA organized at SDRC, Detroit, USA and attended various programs organized by PTC and Autodesk, USA
- Convened and organized FDPs, STPs and Workshops under the aegis of various Government and private bodies
- Former employee of Caterpillar Inc, USA and Micromatic Grinding Technologies Limited (MGTL)
- Life time member of Indian Society for Technical Education (ISTE), International Association of Engineer (IAEng.), International Economics Development and Research Center (IEDRC) and The International Association of Lions Clubs
- Authored over 8 research publication in International Journals



**Prof. Sandeep Garg**  
**Head - Centers for Excellence & Innovations**  
M.E. (IIT, Roorkee),  
B.E. (Mechanical Engineering)

Dr. S. K. Arya has more than 16 years of Teaching, Research and Industry experience with leading Institutions and Laboratories such as National Physical Laboratory (NPL), New Delhi. He has also worked as Senior Research Fellow in DRDO funded project with Department of Applied Physics, BIT, Mesra, Ranchi. Dr. Arya experience includes as a collaborative trainee in SAIL Ranchi with R&D group for materials characterization, Ranchi. His area of research is Condensed Matter Physics and has shown his credential of research by publishing his work in International Journal of high repute like Royal Society of Chemistry and Journal of Physical Chemistry.

**Other Highlights:**

- Authored 11 research publications in International Journal of repute and published various papers in National / International conference
- Qualified benchmark in FDP on “Use of ICT in Education for Online and Blended Learning”, approved by AICTE & organized by IITB



**Dr. S. K. Arya**  
**Associate Professor,**  
**Department of Applied Sciences**  
**& Humanities**  
**Coordinator, B.Tech. First Year**  
**Academic Governance**  
 Ph.D. (Thapar University, Patiala, Punjab)



**Prof. Sanjay Kumar Sharma**  
**Department of Civil Engineering**  
 M.Tech. (IIT, Roorkee/ Uttarakhand  
 Technical University, Dehradun),  
 B.Tech. (IIT, BHU, Varanasi)

Prof. Sanjay Kumar Sharma has an overall 30 years of experience in Teaching, Training, Research, and Educational Administration. He has worked in project conceptualization, research & application in the fields of appropriate technology development in eastern parts of the country in locally appropriate land & water management activities, construction of small dams, micro-lift irrigation schemes, development of watersheds, and also in promotion of rural industrialization & self-help groups of disadvantaged sections of the society.

**Other Highlights**

- Former member of the National Standing Committee on Rural Technology (NSCRT), Council of People’s Action and Rural Technology, Ministry of Rural Development (MoRD), Govt. of India
- Former member of State Level ‘Task Force on Rural Industrialization’ set up by Khadi & Village Industries Commission (Government of India) in South Bihar (now Jharkhand)
- Former Director of Regional Centre for Appropriate Rural Technology (RCART), Bishunpur, Dist Gumla, Jharkhand
- Former Principal of Agivika Research & Training Centre, Krishi Gram Vikas Kendra and Usha Martin Industrial Group, Ranchi, Jharkhand
- Worked on the panel of National Planning Commission’s ‘Sub-Group on Rural Industrialization’ in the year 2000
- Worked with Rural Development Centre (RDC), IIT, Kharagpur in 2000-2002 period, promoting Babui-grass & bamboo craft based research & technology dissemination work
- Consultant, Researcher and Trainer for last 8 years on various projects sponsored by Department of Science & Technology (DST), GoI and a number of international development institutions such as OXFAM, CARE, ACTION-AID, CRS, ICCO-Netherlands

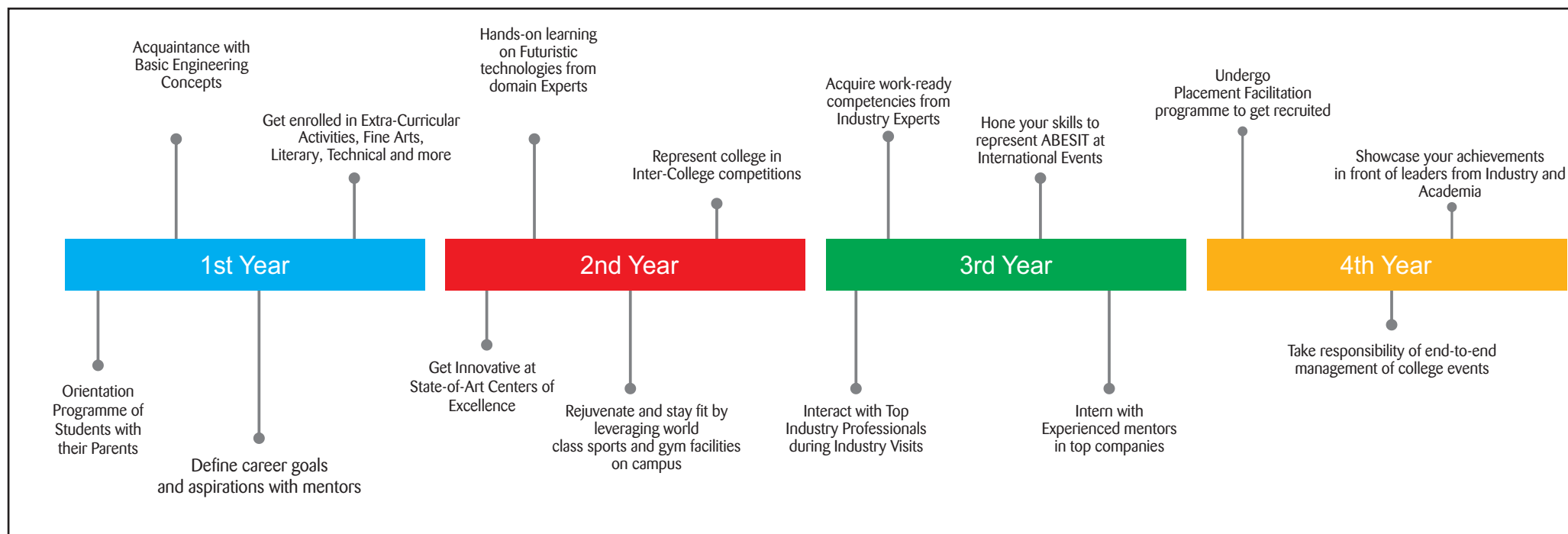
## Life on Campus

Life at ABESIT is nothing less than a roller coaster ride. Learning here begins by unlearning the wrong concepts in a congenial environment under the guidance of accomplished mentors. The journey of four years that you shall embark on will significantly empower you by providing a world class platform on which your ability to integrate knowledge with real world application of it is honed. Hence the pursuit of learning here at ABESIT is not only a rewarding experience but also a thoroughly enjoyable one, which creates memories that shall remain etched in your mind for a lifetime.

The first year of college entails knowing the candidate better which enables the faculty to guide them towards the career path meant for them. The focus is primarily on understanding the interest of each student and helping them learn the basic concepts of Engineering.

When you come to the second year, you will be exposed to state of the art technical facilities established in-house in the form of Centers of Excellence and other Innovation Cells. Numerous development activities such as workshops, seminars, competitions at National and International levels, interaction with Industry stalwarts become a regular part of your life and continue all the way till the end of college. This is also the time when emphasis is laid on co-curricular and extra-curricular activities where you can engage yourself in a plethora of activities ranging from fine arts and culture to sports and business contests – all facilitated by a world class infrastructure at ABESIT.

During the third and fourth years, alongside the above activities, you shall get a dedicated guidance on becoming Industry ready which shall help you internalize the competencies required to stand out and excel in the corporate world. In addition, you will be able to leverage a strong Industry connect that the college has made, which shall provide you with opportunities to explore career options of your choice.



**09:00 AM**

Learning is fun at ABESIT. With some of the most experienced, knowledgeable and renowned faculty taking your LECTURES, the interest is at its peak all through the lectures. Their practical outlook and ability to connect with the real world applications makes the whole engagement so fascinating.



**11:00 AM**

Serving as an integral part and the nerve center of the Institute, our LIBRARY hosts a rich collection of more than 50,000 Text / Reference books and National / International Journals which serves as the knowledge hub for the students. The state of the art facilities make the reading experience all the more focused.



**12:00 PM**

A concept learned without the practical implementation is like half the job done. In ABESIT, a total of more than 70+ well-equipped laboratories and centers with latest technology shall provide you with a hands on practical experience.



**01:00 PM**

"Health is wealth" and at ABESIT the primary focus is on the same. If you miss your home food, then ABESIT canteen and mess is the one stop solution to your hunger. From healthy breakfast, to lunch, refreshments and dinner, the cafeteria serves yummy delicacies and cuisines such as South Indian, North Indian and desi Chinese food.



**02:00 PM**

With rapid advances in Technology, ABESIT keeps its students abreast with latest developments across the globe by making them interact and learn from experts of supreme repute through National and International level seminars, workshops and conclaves, which are being organized all year round.



**07:00 PM**

One of the most valuable ways to learn is through self-study. At ABESIT, we promote the concept of study groups, which are informal associations to foster self-study. This is a way to learn from each other and comes really handy at the time of university examinations and various competitive entrance tests.



**06:00 PM**

It is always a good feeling when the mind is relaxed and body is fit. Hit out the state-of-art gym or play your favorite sport in campus and get rejuvenated.



**05:00 PM**

Bring out the best in yourself by engaging in a plethora of Extra Curricular activities ranging from Debates, Singing, Literary, Fine Arts or Technology competitions.



**03:00 PM**

The Institute has a 12X7 dedicated mentorship center which provides a corporate ecosystem that helps students become Industry ready. A group of Industry professionals help students internalize work ready competencies covering all aspects of Technology, Industry practices and Life skills. This helps to nurture aspects of Emotional intelligence, right attitude and mindset required to succeed.



# Slice of life at ABESIT

# Departments

## Department of Applied Science & Humanities and 1<sup>st</sup> Year Academic Governance



**Prof. (Dr.) Rakesh Kumar Jain**  
Head of the Department

### From the Head of Department's Desk

The Department of Applied Science and Humanities is a department that serves as the bedrock on which the Institute is firmly structured. The foundation of modern Engineering Education is based on the subjects of Mathematics, Physics, and Chemistry and is supported by languages and other Engineering subjects. A strong high-rise building cannot be built on a weak foundation, which signifies the importance of the Department of Applied Sciences and Humanities.

At ABESIT, due attention and emphasis has been laid on this fact and therefore the Applied Sciences department comprises of highly qualified and experienced faculty of Mathematics, Physics, and Chemistry supported with well-equipped laboratories and trained staff.

- **Personalized mentorship and Monitoring of Students:** Acknowledging that each student is unique and needs a customized strategy to succeed, a dedicated one to one mentoring and regular monitoring of students takes place to ensure that a strong foundation is laid for the years to come
- **Structured and Well-planned Lectures:** Lectures are planned meticulously in advance by faculty, with hand written notes for entire semester consolidated and peer reviewed before the session starts. These notes are then made available at regular intervals through an online tool – “Moodle”
- **NPTEL Video Lectures:** To bring in versatility in teaching methodology and to make students familiar with the teachings of top institutions like IIT/ IIIT/ IISc, video lectures are organized and explained to all students by faculty
- **SIM (Software for Institutional Management):** To ensure regularity, the attendance of students is monitored on a daily basis using SIM & the parents are informed about their ward’s attendance on weekly basis through SMS
- **Extraordinary Performance of B.Tech. 1<sup>st</sup> year in Odd Semester 2016-2017 AKTU Examination:** Of the 400 students enrolled for the Examination, 5 students got 90% marks or above, 70 students got 80% marks or above & 153 students got 75% marks or above with a Highest Marks of 93.78% obtained by Mr. Rishabh Singh
- **Sapna Yadav:** Student of Batch 2015-2016 secured 90% in 1<sup>st</sup> Semester of Dr. APJ Abdul Kalam Technical University End Semester Examination
- **Rahul Vashishtha: Gold medalist in National Level Tech Fest** at Roorkee Engineering & Management Institute in software category for ALIS- A Smart AI Personal Assistant

### Key Highlights of the Department



- **Orientation Program:** Conducted to make the parents/guardians and students aware about the Academic aspects, rules and regulations of the Institute and to ensure parental participation in monitoring the performance of the students for contributing in the overall growth of a student
- **National Science Day Celebration:** Celebrated every year on 28<sup>th</sup> February in which Science Models, Projects and Posters prepared by the students are showcased

- **“Teachers Excellence Award”** awarded to **Prof. (Dr.) Rakesh Kumar Jain** by Confederation of Education Excellence for contribution in number of Research papers published
- **Research and Publication:** More than 100 research papers were published by esteemed teaching faculty in International and National journals of high repute such as Royal Society of Chemistry, American Chemical Society and others

## Department Laboratories



Chemistry Lab



Physics Lab



Professional Communication Lab

## Teaching Faculties

### **Prof. (Dr.) Rakesh Kumar Jain**

Professor, Engg. Physics  
Ph.D. (BHU)

### **Dr. Sunil Kumar Arya**

Associate Professor, Engg. Physics  
Ph.D., M.Tech., M.Phil., M.Sc.

### **Dr. Varun Kumar**

Assistant Professor, Engg. Physics  
Ph.D., M.Phil., M.Sc.

### **Dr. Rakesh Mohan Pujahari**

Assistant Professor, Engg. Physics  
Ph.D., M.Phil., M.Sc.

### **Dr. Nisha Singh**

Assistant Professor, Engg. Chemistry  
Ph.D., M.Sc.

### **Dr. Anjali Saxena**

Assistant Professor, Engg. Chemistry  
Ph.D., M.Sc.

### **Dr. Vimal Srivastava**

Associate Professor, Engg. Mathematics  
Ph.D., M.Sc.

### **Dr. Surendra Prabhat Gupta**

Assistant Professor, Engg. Mathematics  
Ph.D., M.Phil., M.Sc.

### **Dr. Amit Kumar Vats**

Assistant Professor, Engg. Mathematics  
Ph.D., M.Sc.

### **Ranjeet Kaur**

Assistant Professor, Engg. Mathematics  
M.Tech., M.Sc.

### **Shitu Singh**

Assistant Professor, Engg. Mathematics  
M.Sc. (IIT, Guwhati)

### **Archana Sharma**

Assistant Professor, Prof. Communication  
Ph.D.\*, M. Phil., M.A

### **Sukti Chakrabarti**

Assistant Professor  
Ph.D.\*, MBA, MCS, UGC-NET

### **Anjali Dubey**

Assistant Professor  
MBA, B.Pharm., B.Sc.

### **Neha Taneja**

Assistant Professor  
M.Sc. (Biotechnology), MBA

### **Kaushal Gupta**

Assistant Professor  
M.Sc. (Biotechnology)

\*Registered & Pursuing

[www.abesit.in](http://www.abesit.in)

# Department of Computer Science & Information Technology



**Prof. (Dr.) Dilkeshwar Pandey**  
Head of the Department

## From the Head of Department's Desk

Computer Science and IT Industries are one of the most rapidly developing industries in the world. Growing Integration of technology in almost all spheres of human activity with Industry 4.0 ensures that this tendency will continue, creating a constant demand for Computer Science and IT professionals in the market.

To keep abreast with the rapid development, our department, comprising of painstaking teaching faculty, ensures that their rich and practical experience gets honed through regular development programmes and research activities. This knowledge is then passed on as effective learning to students, making them compelling professionals ready to handle the latest technologies. In addition, to give students a wide variety of technical and professional exposure, the department has been conducting various seminars and workshops on latest technology and runs dedicated Centers of Excellence in collaboration with Industry. Last year, a dedicated 'Mentorship Center for Industry Readiness' was also established to help students internalize work ready competencies in an Industry simulated environment, thereby making them deployable from day one.

- **Cryptopad** a new generation notepad with a unique feature to store data in encrypted form. The system application is present on [www.tinyurl.com/cryptopad](http://www.tinyurl.com/cryptopad)
- **Cricket Application** available on **Amazon** app store which shows all information related to cricket
- **Ignito** a live application available on Google Play store used to manage password along with Image
- Android based Application name "**Notice Hunt**" available on Google Play used to retrieve latest notices & university question paper of last 10 years

- **Google Student Ambassador:** Out of 177 students across the nation our student **Umang Bhatnagar** was given opportunity to work on Google Project
- **Ashwani Kumar & Ankit Dubey:** Awarded **2<sup>nd</sup> position** in web design, **CSI Regional Student Convention 2017** at SRM University, NCR Campus
- **Amit Verma:** Selected in multiple companies (TCS, Motherson Sumi, Nucleus) & working as Technical Associate in Genpact Headstrong
- **Rupeet Shergill:** Pursuing MS from University of Alberta, Edmonton, Alberta, Canada
- **Niharika Tyagi:** Pursuing MS from De Montfort University, Leicester, UK
- **Abhishek Yadav:** Pursuing MBA from Indian Institute of Management, Bodhgaya
- **Suraj Mishra:** Pursuing MS from Hoboken, New Jersey
- **Pranjal Kumar Singh & Ashwani Kumar:** Awarded **1<sup>st</sup> position** & prize money in Line Follower, National Level Technical Fest at Roorkee Engg. & Mgmt. Technology Institute, Shamli
- **Jaspal Chand Ramola:** Awarded **1<sup>st</sup> position** & prize money in Testing Software, National Level Technical Fest at Roorkee Engg. & Mgmt. Technology Institute, Shamli

## Key Highlights of the Department



- **Center for Advanced Robotic Control for Industrial Automation** in collaboration with Indo Euro Synchronization and APS GmbH-European Center for Mechatronics, Germany
- **Center of Excellence for Big Data & IoT** in collaboration with Datreon
- **Center of Excellence for Analog & Embedded System** in collaboration with EdGate Technologies Pvt. Ltd., Bangalore
- **e-Yantra Lab Setup Initiative in Embedded System and Robotics** supported by IIT, Bombay
- **MARGDARSK-** A mentorship center for Industry competencies and career development in collaboration with Smalt and Beryl
- **FDP:** 5 Days FDP conducted on "Big Data Analytics" sponsored by Dr. APJ Abdul Kalam Technical University
- **15 Seminars and Workshops** in association with Industry have been organized

- "**Teachers Excellence Award**" awarded to **Dr. Dilkeshwar Pandey** by Confederation of Education Excellence for excellent contribution in Education
- **Research and Publication:** More than 50 research papers were published by esteemed teaching faculty in International and National journals
- **Placement in Top IT companies** including Sopra Steria, IBM, TCS, Cognizant, CSC, HCL Technologies, Sapien Nitro, QA InfoTech, Wipro, Webkul, Hewlett-Packard (HP), DEN Networks, R Systems, Tech Mahindra, Mydesq, Amazon and others

## Department Laboratories



Programming Lab



Software Engineering Lab

- Automata and Compiler Techniques Lab
- Artificial Intelligence Lab
- Computer Networks and Security Lab
- Computer Graphics and Multimedia Lab
- Data Structures and Algorithms lab
- Database Lab
- Distributed System Lab
- Internet Lab
- Image Processing and Computer Vision Lab
- Operating Systems Lab
- Programming Lab
- Project Lab
- Parallel Computing Lab
- Software Engineering Lab

## Teaching Faculties

**Prof. (Dr.) Dilkeshwar Pandey**  
Professor  
Ph.D., M.E. (Delhi College of Engg.)  
B.E. (BIT, Sindhri)

**Bipin Kumar Rai**  
Associate Professor  
Ph.D.\*, M.Tech., B.Tech.

**Sumit Kumar**  
Associate Professor  
Ph.D.\*, M.Tech., B.Tech.

**Kaushal Kishor**  
Associate Professor  
Ph.D.\*, M.Tech., B.Tech.

**Rizwan Khan**  
Associate Professor  
Ph.D.\*, M.Tech., B.Tech.

**Ashutosh Pandey**  
Assistant Professor  
Ph.D.\*, M.Tech.

**Avinash Kr. Sharma**  
Assistant Professor  
Ph.D.\*, M.Tech., B.Tech.

**Manish Mishra**  
Assistant Professor  
Ph.D.\*, M.Tech., MCA

**Pawan Singh Mehra**  
Assistant Professor  
Ph.D.\*, M.Tech., B.E.

**Archana Sharma**  
Assistant Professor  
Ph.D.\*, M.Tech., MCA

**Ankita Mehrotra**  
Assistant Professor  
Ph.D.\*, M.Tech., B.Tech.

**Shivani Sharma**  
Assistant Professor  
Ph.D.\*, M.Tech., B.Tech.

**Krishna B. Dubey**  
Assistant Professor  
M.Tech., B.Tech., B.Sc.

**Purwa Maheshwari**  
Assistant Professor  
M.Tech., B.Tech.

**Sanjeev Kumar**  
Assistant Professor  
M.Tech., B.Tech.

**Anshu Kumar Dwivedi**  
Assistant Professor  
M.Tech., B.Tech.

**Gaurav Agarwal**  
Assistant Professor  
M.Tech., B.Tech.

**Rubina Parveen**  
Assistant Professor  
M.Tech., B.Tech.

## Department of Electronics and Communication Engineering



**Prof. Sapna Katiyar**  
Head of the Department

### From the Head of Department's Desk

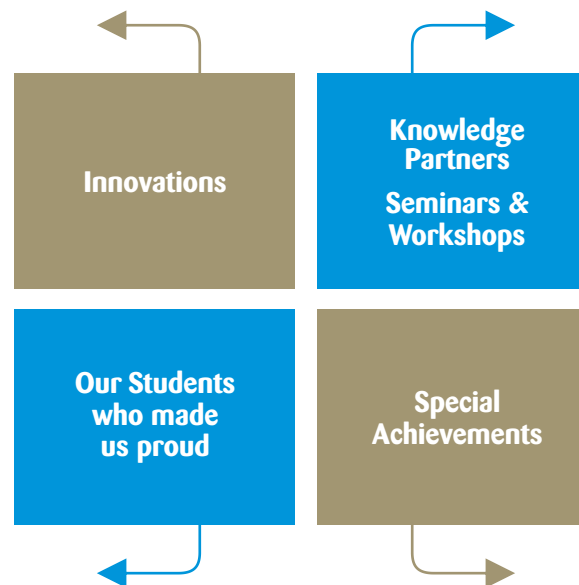
The Department of Electronics and Communication Engineering aims to produce Engineers, who combine Academic Excellence with practical expertise. The department has always been on a high growth path and to keep pace with the rapid change in technology, the department offers diverse areas of study such as Digital Signal Processing (DSP), Image and Speech Processing, Microcontroller, Satellite Communication, Radar System and Digital System Design using VHDL. Emphasis is placed on developing students' ability to fully understand and analyze latest electronic systems.

The department has dedicated teaching faculty, state-of-art facilities and well-equipped laboratories to foster research and development. These facilities are consistently upgraded to keep pace with present day technology. The department also conducts various Seminars and Workshops at regular intervals to keep students abreast with the latest trends in the Industry and usher in opportunities to give them real time hands-on exposure in the presence of eminent subject matter experts.

- **Design & Implementation of Microwave Filter**, a project by four students of final year, based on research paper titled "Design of Dual-Band Pass Filter Using Transmission Line Section" was appreciated by **Institute of Electronics and Electrical Engineers (IEEE)**, in conference **IDICON-2015**, held at Jamia Millia Islamia, New Delhi, India.
- **VLSI Implementation of Discrete Wavelet Transform (DWT) for Image Compression**, a project by four students of final year, designed with an aim to contribute to the medical science, giving highly compressed 4D medical images compared to conventional 2D images.

- **Virendra Kumar**: Awarded **1<sup>st</sup> position** & prize money in Logic Circuit, National Level Technical Fest at Roorkee Engg. & Mgmt. Technology Institute, Shamli
- **Ayu Parmar**: Awarded **1<sup>st</sup> position** & prize money in Line Follower, National Level Technical Fest at Roorkee Engg. & Mgmt. Technology Institute, Shamli
- **Rishabh Jain & Ayu Parmar**: Awarded **1<sup>st</sup> position** in Hardware Demonstration, National Level Technical Fest at Roorkee Engg. & Mgmt. Technology Institute, Shamli
- **Sugandh Raj**: Pursuing Master's in Electrical and Computer Engineering from Saint Louis University, US.
- **Garima Agarwal**: Pursuing MS from Stevens Institute of Technology, Hoboken, New Jersey, US

### Key Highlights of the Department



- **Center for Analog and Embedded System** in collaboration with Texas instruments
- **Center for Advanced Robotic Control for Industrial Automation** in collaboration with Indo Euro Synchronization and APS GmbH-European Center for Mechatronics, Germany
- **Center for Power Electronics and Drives** in collaboration with Entuple Technologies- A seat of AKTU
- **e-Yantra Lab Setup Initiative in Embedded System and Robotics** supported by IIT, Bombay
- **FESTO Center of Excellence in Industrial Automation- Pneumatic Systems** in collaboration with FESTO, Germany
- **Margdarshak**-A center for Industry competencies and Career development in collaboration with Smalt and Beryl
- **2 Industrial Visits, 12 Seminars & Workshops, 4 Webinars and 4 Expert Talks**

- **"Teachers Excellence Award"** awarded to Prof. Sapna Katiyar by Confederation of Education Excellence for excellent contribution in Education
- **Research and Publication**: More than 60 research papers were published by esteemed teaching faculty in International and National journals
- Established **Institute of Electronics and Telecommunication Engineering (IETE) Forum** in year 2012
- **Placement in Companies** including IBM, CSC India Pvt. Ltd, HCL Technologies, Hero Motors, Hewlett Packard, Mphasis, Aricent Communication, Genpact, CapitalVia and others

## Department Laboratories



Electronics & Circuit Design Lab



Digital Electronics Lab

- Analog Electronics Lab
- Digital Electronics Lab
- Analog Communication Lab
- Digital Communication Lab
- PCB & Electronics Workshop Lab
- Optical Communication & Networking Lab
- Electronics Circuit Design Lab
- Embedded System Lab
- Integrated Circuits Lab
- Control System Lab
- Microprocessors Lab
- Antenna and Microwave Lab
- CAD of Electronics Lab
- Network Analysis & Synthesis Lab
- Project Lab

## Teaching Faculties

### Sapna Katiyar

Associate Professor  
Ph.D\*, M.Tech., B.E.

### Sanjeev Sharma

Associate Professor  
Ph.D\*, M.Tech., B.Tech.

### Priyanka Tyagi

Assistant Professor  
Ph.D\*, M.Tech., B.E.

### Rachit Patel

Assistant Professor  
PhD\*, M.Tech., B.Tech.

### Kalyan Pal

Assistant Professor  
Ph.D\*, M.Tech, B.E.

### Aviral Malay

Assistant Professor  
M.Tech., B.Tech.

### Aakansha Garg

Assistant Professor  
M.Tech., B.Tech.

### Pradeep Kumar

Assistant Professor  
M.Tech., B.Tech.

### Vipin Sharma

Assistant Professor  
M.Tech., B.Tech.

### Khushboo Arora

Assistant Professor  
M.Tech., MBA, B.Tech.

### Preeti Sharma

Assistant Professor  
M.Tech., B.Tech.

### Sugandh Gupta

Assistant Professor  
M.Tech., B.Tech.

### Swati Singh

Assistant Professor  
M.Tech., B.Tech.

### Ashish Kumar Swami

Assistant Professor  
M.Tech., B.Tech.

### Vaibhav Jain

Assistant Professor  
M.Tech., B.Tech.

### Suneel Kumar Agarwal

Assistant Professor  
M.Tech., B.Tech.

\*Registered & Pursuing

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# Department of Mechanical Engineering



**Prof. Avinash Chandra Trivedi**  
Head of the Department

## From the Head of Department's Desk

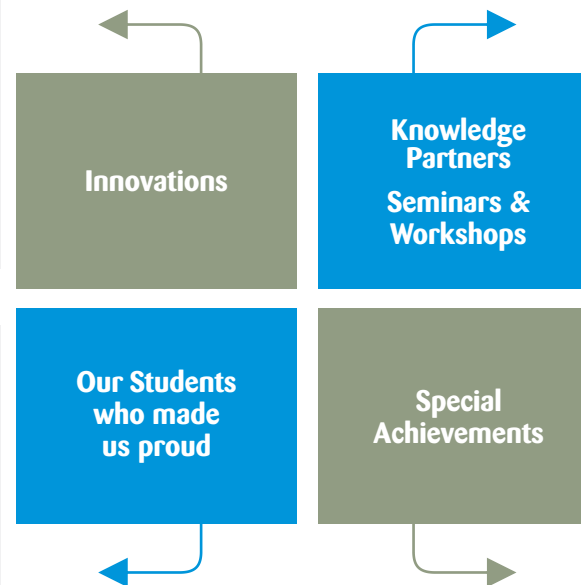
The B.Tech. Program in Mechanical Engineering commenced in 2007. Since then five batches have graduated and most of the Alumni are pursuing successful careers in the industry. At ABESIT, the field of Mechanical Engineering has continuously evolved to incorporate advancements in technology.

Students are guided by experienced faculty members and technical staff, and are being made aware of professional skills, such as seeking patentable innovations and taking up technology transfer tasks. The department is vibrant with several activities taking place round the year. Guest lectures by eminent personalities, Industrial visits of students and various seminars and workshops to give students a hands on experience, are a regular phenomenon. In addition, the department has well-equipped laboratories which ensure that the Department remains at the forefront of latest technology advancements and makes the Institute the number one choice for prospective students to seek admission.

- **Electric Solar Vehicle** designed by team **VAIROCANA** of final year students secured 13<sup>th</sup> rank in All India Level, in Asia's largest solar event - Electric Solar Vehicle Competition (ESVC) 2016, organized by Imperial Society of Innovative Engineers
- **Go-Kart Vehicle** designed by team **HAWKS** of Mechanical Engineering Students qualified in the top 61 team out of 181 team from 57 different cities, in Elite Go-Kart Racing Championship organized by Elite Techno Group, Jaipur
- **Conference Bike**: An Eco-Friendly bike which runs without fuel designed by the students of Mechanical Engineering.

- **University Topper: Shivam Garg** a student of final year, batch 2012-2016 secured highest marks in 8<sup>th</sup> Semester at University level & secured **6<sup>th</sup> Position** overall in the University & pursuing M.Tech. from IIT, Delhi
- **Shubham Kesharwani**: Achieved **1<sup>st</sup> Position** in Solo Dance competition at State Level Cultural Fest 2016 organized by Dr. A.P.J. Abdul Kalam Technical University
- **Ravi Kiran**: Got AIR-104 rank in International Engineering Olympiad (IEO)

## Key Highlights of the Department



- **Center for Advanced Robotic Control for Industrial Automation** in collaboration with Indo Euro Synchronization and APS GmbH-European Center for Mechatronics, Germany
- **Entuple Technologies Center for ANSYS Mechanical** in Collaboration with Entuple Technologies Pvt. Ltd.
- **e-Yantra Lab Setup Initiative in Embedded System and Robotics** supported by IIT, Bombay
- **FESTO Center of Excellence in Industrial Automation-Pneumatic Systems** in collaboration with FESTO, Germany
- **Bosch Rexroth Germany Center of Excellence in Automation Technologies- Hydraulic Systems** in collaboration with Bosch Rexroth, Germany
- **Center for Computer Aided Design and Engineering Analysis** in collaboration with CADPLUS
- **10 Seminars and Workshops** in association with Industry had been organized

- **Academic Visit of Faculty to Germany: Dr. Ravindra Kumar and Prof. Balbir Singh**, visited Germany for two weeks (27<sup>th</sup> June – 7<sup>th</sup> July 2015) of Training at APS-European Centre for Mechatronics, Germany.
- **Prachi Sharma and Samai Vashitha** of Team **VAIROCANA** for their outstanding performance in ESVC 2016 got placed in Imperial Society of Innovative Engineers (ISIE), Punjab and DCM Engineering Limited., Punjab.
- **Research and Publication**: More than 30 research papers were published by esteemed teaching faculty in International and National journals
- **Placement in Companies** including Arabol Lubricants, Manlift India, OM logistics, eTeam Inc, Genpact and others

## Department Laboratories

- Central Workshop
- Engineering Mechanics Lab
- Theory of Machines Lab
- Fluid Mechanical Lab
- Fluid Machinery Lab
- Measurement and Metrology Lab
- Heat & Mass Transfer Lab
- Refrigeration and Air Conditioning Lab
- Automobile Lab
- Material Testing Lab
- Computer Aided Design Lab



Central Workshop



Engineering Mechanics Lab

## Teaching Faculties

### **Avinash Chandra Trivedi**

Associate Professor  
M.Tech., B.Tech.

### **Sandeep Garg**

Professor  
M.E. (IIT, Roorkee), B.E.

### **Dr. Ravindra Kumar**

Associate Professor  
Ph.D., M.E.

### **Pankaj Kumar Mishra**

Associate Professor  
Ph.D.\*, M.Tech., B.Tech.

### **Balbir Singh**

Associate Professor  
Ph.D.\*, M.Tech., B.E.

### **Amit Kumar Gupta**

Assistant Professor  
M.Tech., B.E.

### **Amit Kumar Vishnoi**

Assistant Professor  
M.Tech., B.E.

### **Anand Prakash Gautam**

Assistant Professor  
M.Tech., B.E.

### **Basant Kumar Pandey**

Assistant Professor  
M.Tech., B.Tech.

### **Sachin Rana**

Assistant Professor  
M.Tech. (IIT, Roorkee), B.Tech.

### **Amrish Kumar Chaturvedi**

Assistant Professor  
M.Tech. (IIT, Delhi), B.Tech.

### **Ashwani Dwivedi**

Assistant Professor  
M.Tech. (IIT, Delhi), B.Tech.

### **Vijay Kumar**

Assistant Professor  
M.Tech., B.Tech.

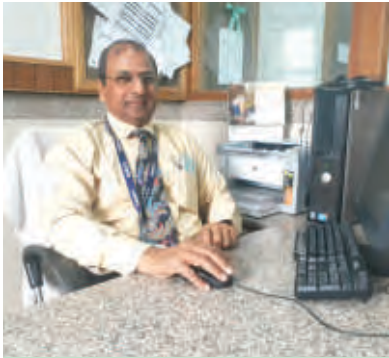
### **Doli Tanwar**

Assistant Professor  
M.Tech., B.Tech.

### **Shishir Srivastava**

Assistant Professor  
B.Tech.

# Department of Civil Engineering



**Prof. (Dr.) Sudhir Kumar Goyal**  
Head of the Department

## From the Head of Department's Desk

The Department of Civil Engineering has the credit of being the oldest branch of Engineering in the world. It has survived the pangs of time only because it has been transforming itself with the ever changing technology and aspirations of the people for whom it is meant to serve. We, at ABESIT, are proud to exhibit this in letter and spirit.

To keep abreast with global advancements, the department of Civil Engineering has been maintaining an active interaction with different industries to impart knowledge to students about advanced methodologies, processes and tools used in Civil Engineering in today's era. The department has well-qualified and dedicated teaching faculty trained in various specializations and having a good Industry exposure. The department has state-of-art facilities & well-equipped laboratories which help to imbibe practical expertise in the students. Besides curriculum, several regular training programs for students are conducted in the laboratories on AutoCAD, STAAD Pro, Primavera and others.

- The department has its own dedicated Structural Design and Analysis Lab equipped with 30 computers having AutoCAD and Bentley software suit (24 softwares such as STAAD Pro, WaterGEM, SewerGEM and MX Road etc.)
- 19 Seminars and Workshops in association with Industry have been organized
- Personnel from premier Institutions and Government bodies such as IIT-R, NIH, Ministry of Earth Sciences etc. conduct in-house FDPs
- **FDP:** 5 Days FDP conducted on "Using Remote Sensing & GIS for Water Resource Engineering & Management" supported & sponsored by Dr. APJ Abdul Kalam Technical University in Coordination with NIH, Roorkee

- Visit to Sewage Treatment Plant in Narela, New Delhi
- Visit to Noida Metro Rail Corporation construction site
- Visit to Ready-mix concrete production plant

## Key Highlights of the Department



- [Center for Structural Design & Analysis](#) in collaboration with Bentley Inc.
- [Center for Remote Sensing and Geographic Information System](#) in collaboration with National Institute of Hydrology (NIH), Roorkee
- [Center for Advanced Robotic Control for Industrial Automation](#) in collaboration with Indo Euro Synchronization and APS GmbH-European Center for Mechatronics, Germany
- [e-Yantra Lab Setup Initiative in Embedded System and Robotics](#) supported by IIT, Bombay
- Department has signed MOU with [National Institute of Hydrology \(NIH\)](#) for Knowledge Exchange and Research Projects
- Department is in the process of signing MOU with IIT-Roorkee for setting up Virtual lab

- Established [Indian Concrete Institute \(ICI\) Student Chapter](#)
- **Research and Publication:** More than 15 research papers were published by esteemed teaching faculty in International and National journals
- **Placement in Companies** including CINDA Engineering, Migsum Group, Devdhara Construction, Aurelius Corporate Solution, LoginAtSolutions, P3 Multisolutions and others
- **Prateek Bhardwaj:** Pursuing International Business Studies from SGH Warsaw School of Economics, Poland
- **Shivam Chauhan:** Pursuing International Business Studies from SGH Warsaw School of Economics, Poland

## Department Laboratories

- Fluid Mechanics Lab
- Building Materials Testing Lab
- Surveying Lab
- Building Planning & Drawing Lab
- Structural Analysis Lab
- Geo-informatics Lab
- Hydraulics & Hydraulic M/C Lab
- CAD Laboratory
- Environmental Engineering Lab
- Geotechnical Engineering Lab
- Transportation Engineering Lab
- Structural Detailing Lab
- Project Design & Management Lab



Hydraulic Machine Lab



Building Materials Testing Lab

## Teaching Faculties

**Prof. (Dr.) Sudhir Kumar Goyal**  
Professor  
Ph.D. (University of Idaho, USA),  
M.Tech. (IIT Roorkee),  
B.Tech. (ZHCET-AMU Aligarh)

**Sanjay Kumar Sharma**  
M.Tech. (IIT,R/ UTU, Dehradun),  
B.Tech. (IIT, BHU)

**Manjul Chandravanshi**  
Assistant Professor  
M.Tech. (Pant Nagar),  
B.Tech.

**Chaitanya Gandhi**  
Assistant Professor  
M.Sc. (University of Aberdeen,  
Scotland), Chevening Scholar,  
UK Government, B.E.

**Jyoti Agarwal**  
Assistant Professor  
M.Tech., DAAD Fellow, Germany,  
B.Tech.

**Salonee Srivastava**  
Assistant Professor  
M.Tech. (DTU),  
B.Tech. (IET, Lucknow)

**Vivek Kumar Thahiya**  
Assistant Professor  
M.Tech., B.Tech.

**Mansi Aggarwal**  
Assistant Professor  
M.Tech.\*, B.Tech.

**Saurabh Dubey**  
Assistant Professor  
B.Tech.

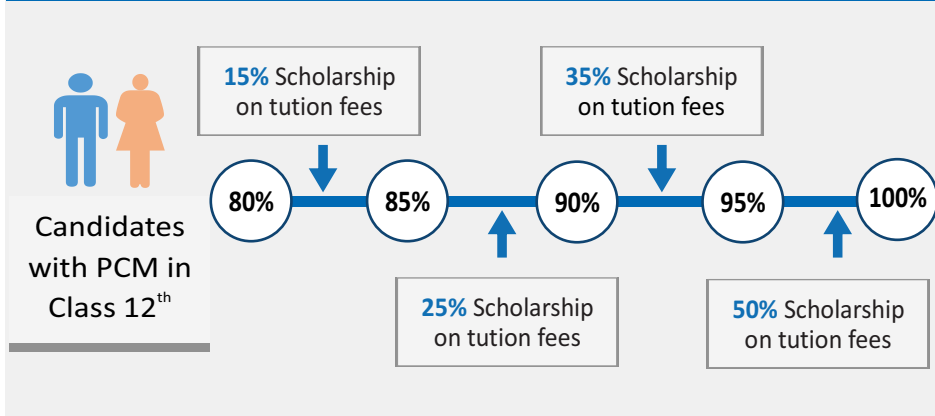
**Paritosh Kumar Singh**  
Assistant Professor  
B.Tech.

# मेधावी विद्यार्थी प्रोत्साहन योजना

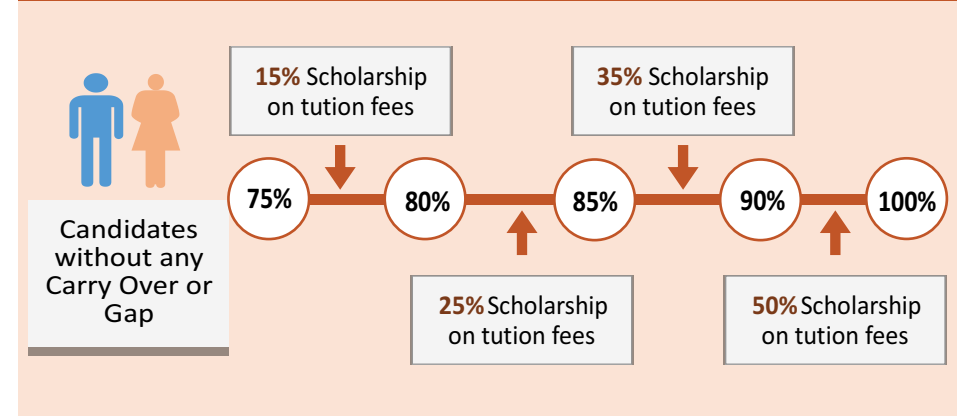
In order to give financial assistance to meritorious candidates seeking admission in B.Tech. 1<sup>st</sup> Year (batch 2017-2021) and to reward the outstanding performance of our present students during 4 years of the B.Tech. programme, ABESIT has the following Schemes and Scholarships -

## I. Scheme of Grants to Meritorious Candidates:

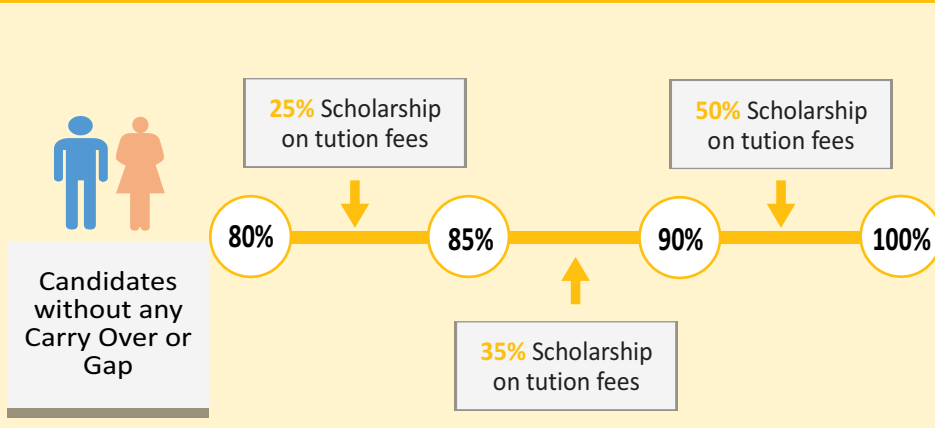
### Students taking Admission in B.Tech 1<sup>st</sup> Year (Session: 2017-2018)



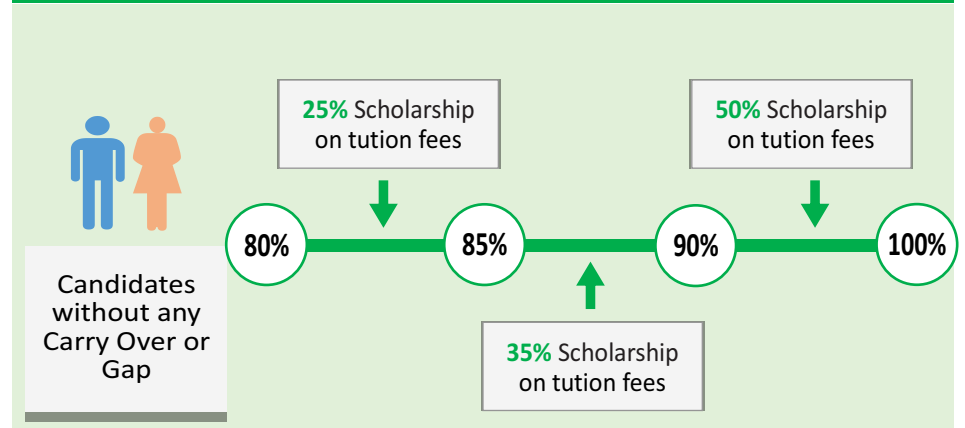
### B.Tech 2<sup>nd</sup> Year (Session:2018-2019) Based on 1<sup>st</sup> Year Result



### B.Tech 3<sup>rd</sup> Year (Session:2019-2020) Based on 2<sup>nd</sup> Year Result



### B.Tech 4<sup>th</sup> Year (Session:2020-2021) Based on 3<sup>rd</sup> Year Result



## II. Scheme of Academic Excellence Awards:

- a. Certificate of appreciation is awarded to the Top 10 students securing highest marks each semester, branch wise at Institute level and Top 5 students securing highest marks in a year, branch wise at Institute level.
- b. At ABESIT, Final year students securing position in the University or Institute level are awarded Cash Prize as per the below mentioned criteria:

- 1 Any student securing 1<sup>st</sup>/2<sup>nd</sup>/3<sup>rd</sup> academic position in the University final result will be awarded with total tuition fees he/she paid for all the 4 years
- 2 Any Student who holds Gold, Silver and Bronze medal at Institute level for academic excellence and has an aggregate of 85% or above in the final year without any Carry Over or gap will be awarded with a cash prize of Rs. 51,000/-, Rs. 31,000/- and Rs. 21,000/- respectively.
- 3 Any student who has an aggregate of 80% or above in the final year without any Carry Over or gap will be awarded with a cash prize of Rs. 11,000/-
- 4 Any student who has an aggregate between 75% and 80% in the final year without any Carry Over or gap will be awarded with a cash prize of Rs. 5,100/-

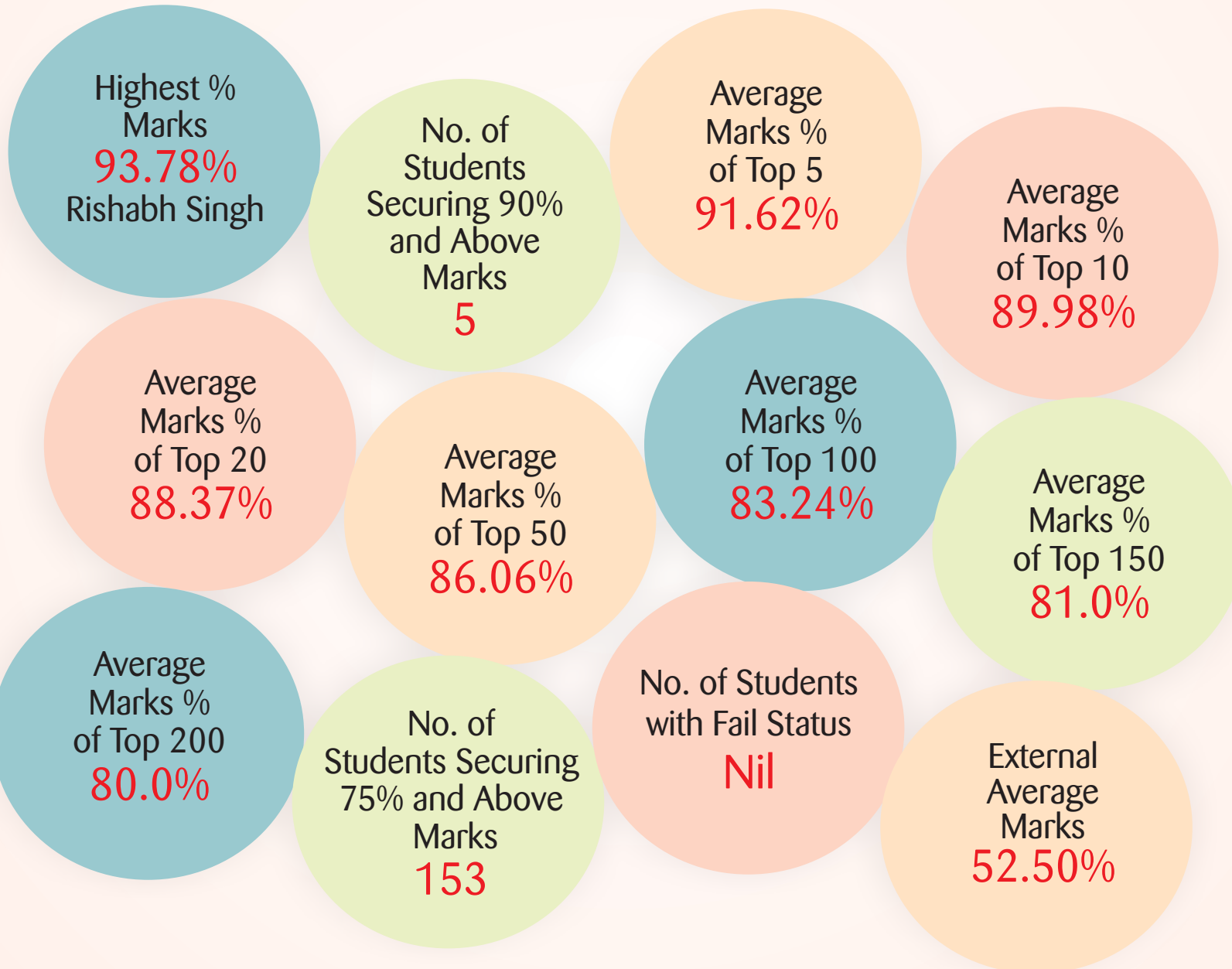


Shivam Garg who secured 6<sup>th</sup> Position in whole AKTU in 2016 in a Signature Event of ABESIT “Felicitation & Luncheon with Chair” held on 4<sup>th</sup> March 2017



Meritorious student of Batch 2012-16 in “Felicitation & Luncheon with Chair- A Signature Event” held on 4<sup>th</sup> March 2017

# Highlights of B.Tech. 1<sup>st</sup> Year Result Odd Semester (2016-17)



# Centers of Excellence (CoEs)



**Prof. Sandeep Garg**  
Head - Centers for Excellence & Innovations (CEI)

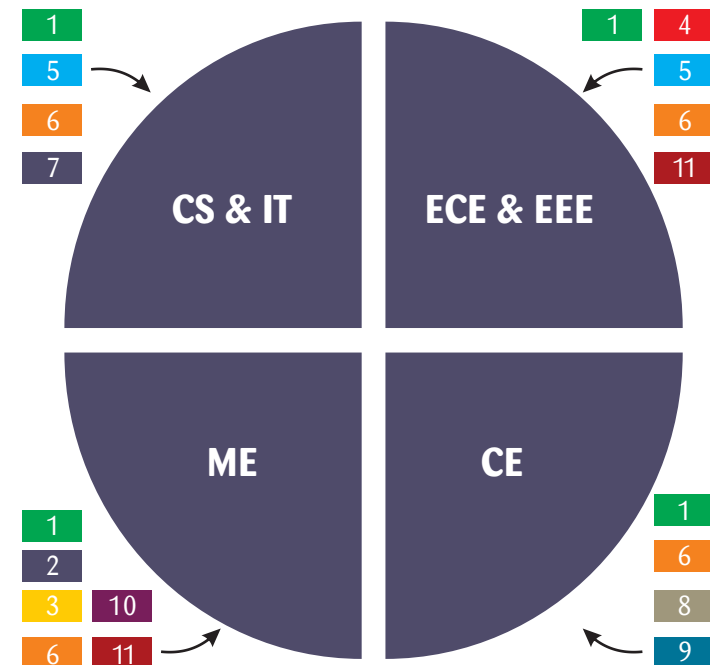
## From the Desk of Head, ABESIT-CEI

With Industry 4.0 becoming an inevitable necessity, we at ABESIT, ensure that our students are well adept at the futuristic skills required to remain employable in the times to come. Integrating such learnings with the University curriculum, our state-of-art Centers of Excellence foster innovative mindset and encourage budding technocrats to come up with out of the box products and services across different domains. This up-skilling of students is achieved through an effective execution of Industry vetted skill qualification packs by expert trainers from the Industry, who impart hands-on training to students via latest machinery, equipment, tools and software in an Industry simulated environment.

Leveraging ABESIT's strong network and Industry connect, all the Centers of Excellence are run in association with top global organizations, pioneer in their respective technologies. These centers have provided a tremendous fillip in motivating students to transcend the realms of technology and make themselves Industry ready to face the challenges of this rapidly evolving technology world.

## Centers of Excellence in ABESIT

- 1 Center for Advanced Robotic Control for Industrial Automation
- 2 Entuple Technologies Center for ANSYS Mechanical
- 3 Center for Computer Aided Design & Engineering Analysis
- 4 Center of Excellence for Power Electronics & Drives
- 5 Center of Excellence for Analog & Embedded Systems
- 6 e-Yantra Lab Setup Initiative in Embedded Systems & Robotics
- 7 Center of Excellence for Big Data & IoT
- 8 Center for Structural Design & Analysis
- 9 Center for Remote Sensing and Geographic Information System
- 10 Bosch Rexroth Germany Center of Excellence in Automation Technologies – Hydraulic Systems
- 11 FESTO Center of Excellence in Industrial Automation – Pneumatic Systems



## (I) Center for Advanced Robotic Control for Industrial Automation

Established in collaboration with Indo Euro Synchronization and APS GmbH-European Center for Mechatronics, Germany



**Indo-Euro Synchronization** is an initiative to connect India and Europe closer together and **APS GmbH - European Centre for Mechatronics** located in Aachen, Germany is focusing on research and development, industrial-driven engineering projects, training and education, as well as transfer of advanced technologies. The core technologies are mechatronics, robotics, ICT, embedded systems, industrial communication and human-machine interaction.

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Dr. Daniel Hahn, CEO & MD, APS GmbH-European Center for Mechatronics, Germany at ABESIT Campus for the inauguration of ARC Lab



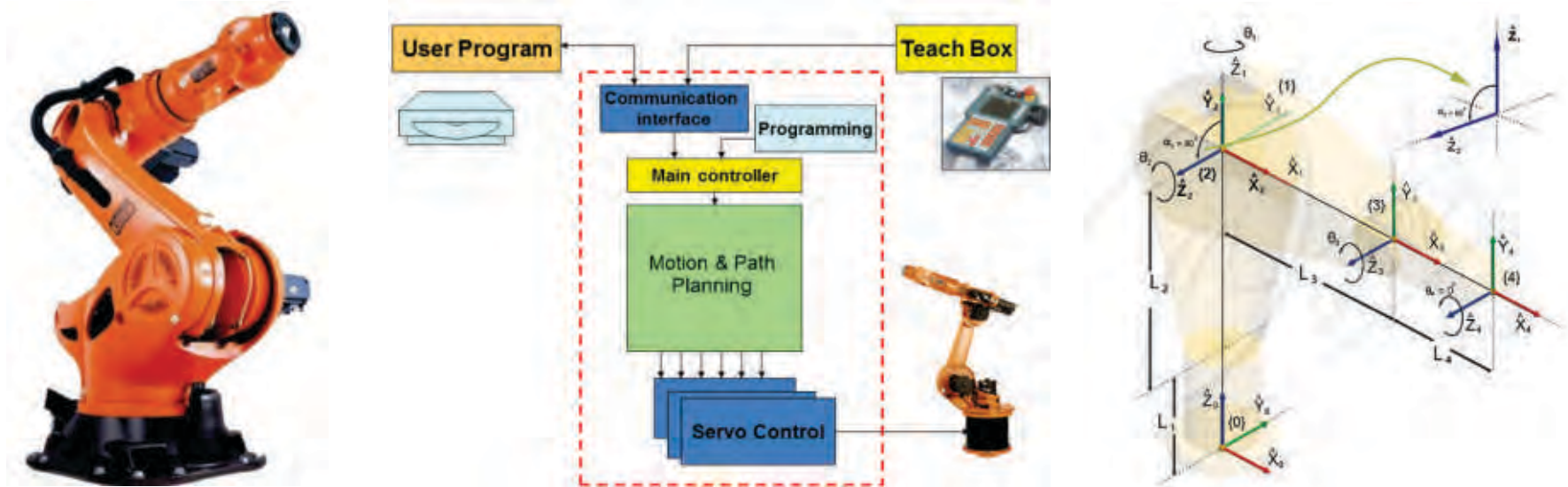
MoU Signed in Germany between APS GmbH-European Center for Mechatronics, Germany, Indo Euro Synchronization, Germany and ABESIT, Ghaziabad for the establishment of ARC Lab in ABESIT Campus

## Academic Visit of our Faculty to Germany

Dr. Ravindra Kumar and Prof. Balbir Singh of Mechanical Engineering Department of ABESIT had got the opportunity to work from 27<sup>th</sup> June – 7<sup>th</sup> July 2015 at APS-European Center for Mechantronics in Aachen, Germany.

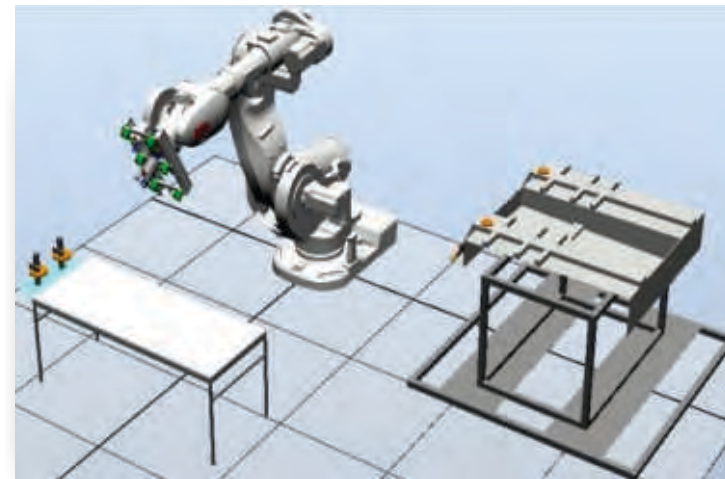
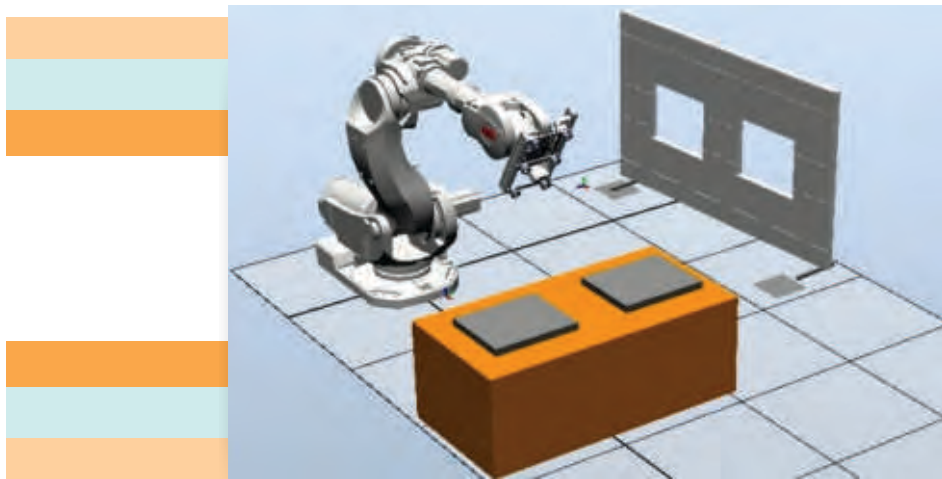


**Two batches of 28 students** from Computer Science, Information Technology, Electronics & Communication, Electrical & Mechanical Engineering were trained by German experts through Skype Sessions and by ABESIT faculty who had gone to Germany for taking training on Robotics Control for Industrial Automation. **The third batch of 12 students** is in progress.



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Students at ABESIT work on industrial real problems like fitment of glass sheets on train window and fitment of suspension elements on car underbody and write codes and test by simulation using ABB Robot Studio software, which is further applied to the Real Robot available at APS GmbH-European Center for Mechatronics, Germany.



Our students are working on Robot Studio Software and virtually implementing the projects on robot placed at APS GmbH-European Center for Mechatronics, Germany

## Visit of our students in Germany to Autosol 2016 Program

Two meritorious students, **Ms. Amrita Yadav**, Final Year B.Tech. (IT) and **Mr. Ankit Kumar Singh**, Pre-Final B.Tech. (ME) who attended Advanced Robotic Control (ARC) training in ABESIT were sponsored to attend the **Autosol 2016** program in Germany from 22<sup>nd</sup> Feb 2016 to 3<sup>rd</sup> Mar 2016. In this program, they got full-fledged knowledge on Automobile / Automotive Engineering, attended seminars on current Research, and participated in Industrial Visits and Trade fair visits.



Our Students taking training on Robotics from German Experts at APS-European Center for Mechantronics in Aachen, Germany

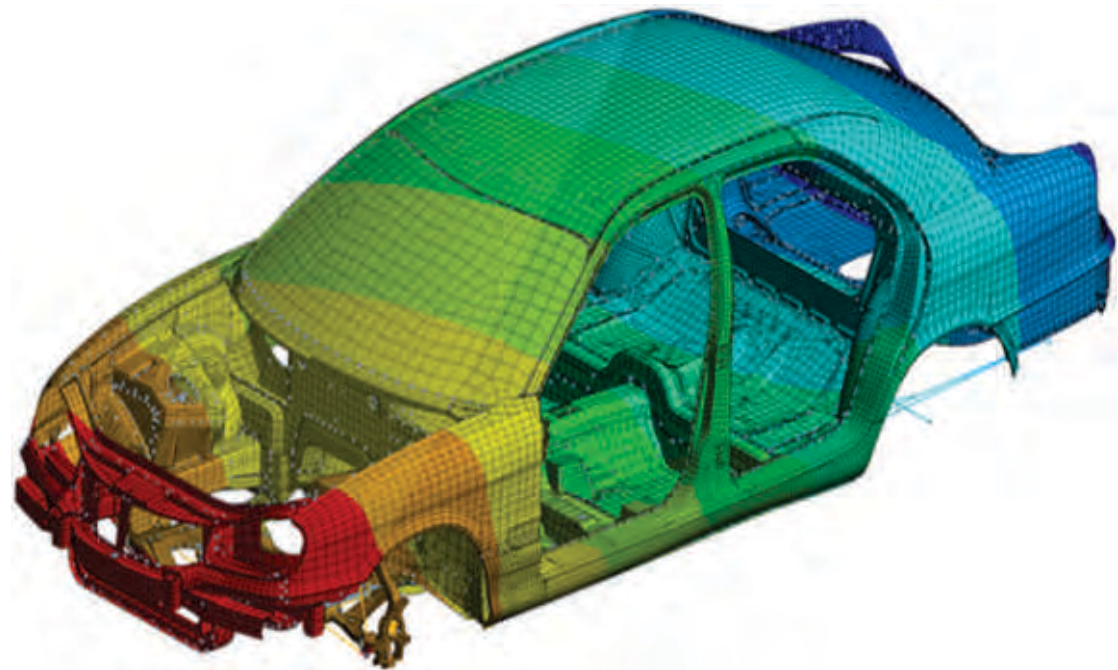
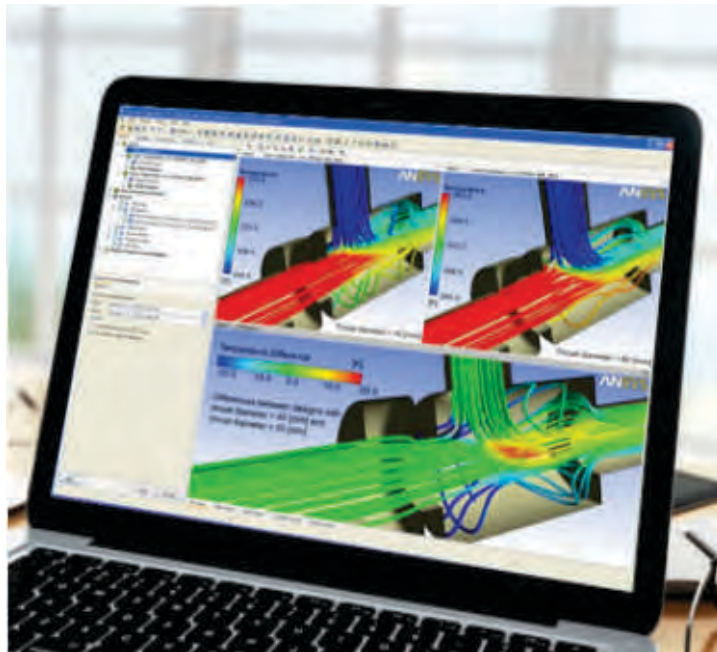
## (II) Entuple Technologies Center for ANSYS Mechanical

Established in Collaboration with Entuple Technologies Pvt. Ltd.



The ANSYS solutions have emerged rapidly as the industry standard state of the art tool in solving complex structural problems with ease in addition to Robust CFD tools for fluid dynamics simulation and ANSYS software is helping to discover how engineering simulation is expanding across the entire product lifecycle, from digital exploration to digital prototyping to operations and maintenance using digital twins and helping manufacturers, medical personnel, teachers, researchers and others meet the challenges they face every day with confidence.

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## Student team VAIROCANA using ANSYS in design validation of roll cage in Electric Solar Vehicle Championship, 2016 (ESVC-2016) and also using ANSYS for ESVC-2017

Team VAIROCANA comprising of Mechanical Engineering and Electrical & Electronics Engineering students of ABESIT participated in Asia's largest solar event - Electric Solar Vehicle Competition (ESVC) 2016, a solar automobile design and manufacturing championship organized by Imperial Society of Innovative Engineers. A total of 176 teams participated in the event at All India level, where team VAIROCANA secured 13<sup>th</sup> rank and an appreciation award. During this competition, for the outstanding performance, two students of ABESIT, Ms. Prachi Sharma and Mr. Samai Vashitha of Team VAIROCANA got placed in Imperial Society of Innovative Engineers (ISIE), Punjab and DCM Engineering Limited, Punjab.



**Team VAIROCANA secured  
13<sup>th</sup> Rank in all India  
and an  
Appreciation Award in**

**Electric Solar Vehicle Championship (ESVC 2016)**

*Organized by : Imperial Society of Innovative Engineers*



# Student team THE HAWKS using ANSYS in design validation of roll cage in Elite Go-Kart (EK-15) Racing Championship 2016

Team Hawks of Mechanical Engineering students participated in Elite Go-Kart Racing Championship 2016 organized by Elite Techno Group, Jaipur. Out of 181 teams from 57 different cities, team Hawks qualified in the top 61 for final manufacturing round.

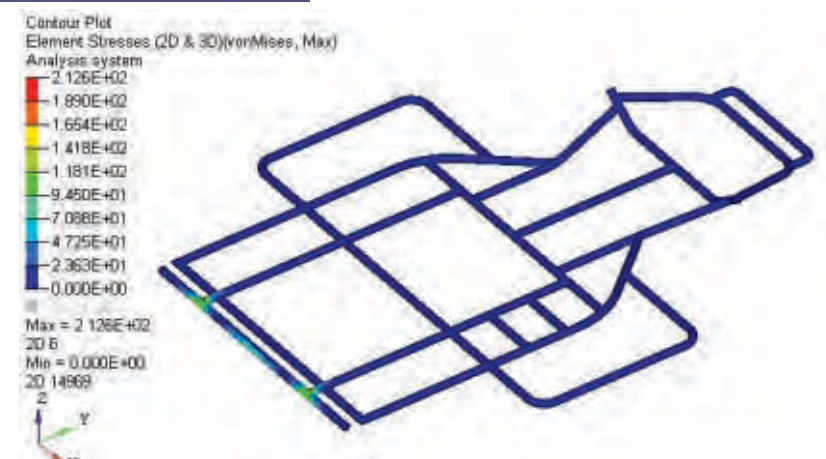
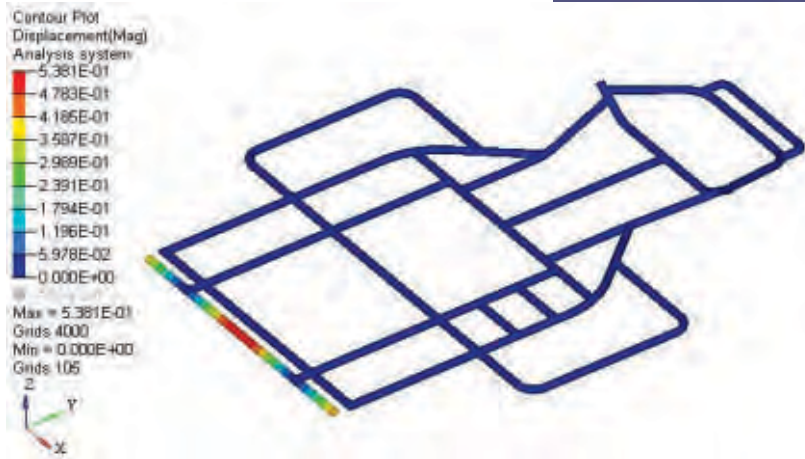
Finally, ABESIT team THE HAWKS was judged in top 28 teams after clearing all the tests of final round.



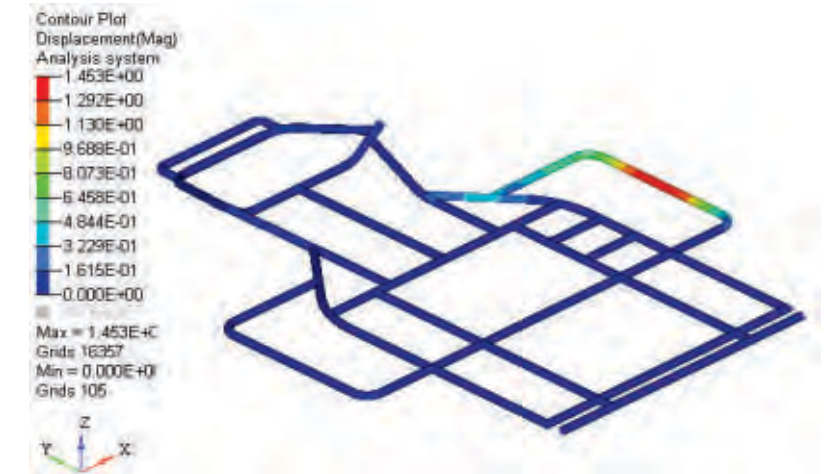
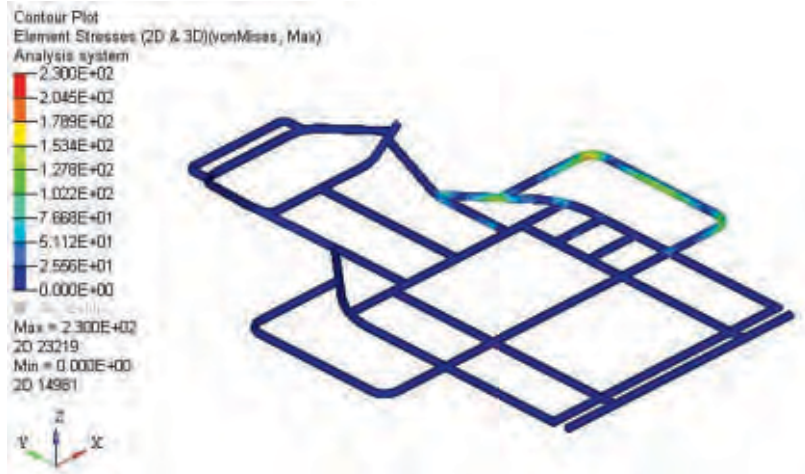
# Roll Cage of Go Kart Vehicle designed by ABESIT Team THE HAWKS



Rear Impact Analysis of Go Kart roll cage using ANSYS



Side Impact Analysis of Go Kart roll cage using ANSYS



### (III) Center for Computer Aided Design & Engineering Analysis

Established in collaboration with CADPLUS Software Solutions



This center is a highly professional CAD/CAM/CAE training center equipped with latest state of the art design software like AutoCAD and SolidWorks.

The sole objective of the training is to upgrade the engineering, designing & conceptualize skills of the students of Mechanical Engineering to a professional level to make them industry-ready.

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Shri. Ashu Goel, Chairman, ABESIT Inaugurated the Center for Computer Design and Analysis on 29<sup>th</sup> Sept, 2015

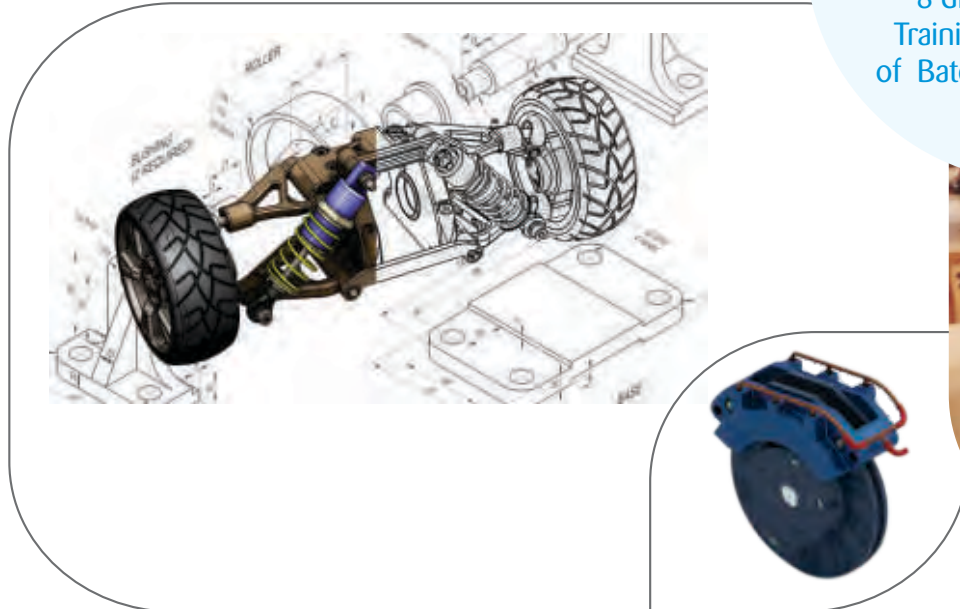


Faculty Development Program on "AutoCAD" for Civil Engineering Faculty



Training Program on "Elementary Engineering Drawings & AutoCAD"

150 Students of Mechanical Engineering have been trained on state-of-the-art AutoCAD and SolidWorks design software in 8 different batches. Training of 15 students of Batch-9 is in progress.



Training Program on "SolidWorks"

## (IV) Center of Excellence for Power Electronics & Drives

A seat of AKTU established on 17.03.2016 by signing a MoU at University campus, Lucknow between AKTU and Entuple Technologies Pvt. Ltd., Bangalore (Technology partner of ANSYS & CADENCE)



**Entuple** is next generation solutions enabler in system design technologies across Telecommunication, Defense and Aerospace, Power & Utility and Academics.

**ANSYS** develop and support engineering simulation software used to predict how products will behave and how manufacturing processes will operate in real-world environments.

**Cadence Design Systems, Inc.** electronic design automation (EDA) software and engineering services company. The company produces software, hardware and silicon structures for designing integrated circuits, systems on chips (SoCs) and printed circuit boards.

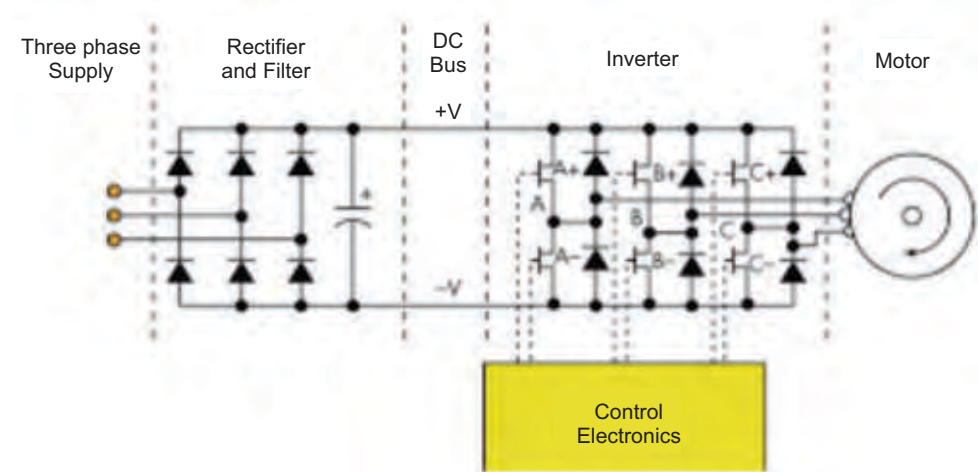


Signing of MoU between **AKTU, Lucknow** and **Entuple Technologies Pvt. Ltd., Bangalore** (Technology partner of ANSYS & CADENCE) on 17.03.2016 at University Campus, Lucknow for developing a **Center of Excellence for Power Electronics & Drives at the campus of ABESIT** (Code 290), Ghaziabad.

This Center of Excellence is one of three Nodal Centers of AKTU for empowering the various engineering colleges to develop expertise on issues related to Power Electronics & Drives. On the onset Entuple, Bangalore experts are periodically conducting empowerment programs for the faculty members so that they can understand the intricacies of the subject and train the students so that they become industry requirement ready. Subsequently Industry based research projects will also be undertaken by the students, faculty members and Entuple, Bangalore, together.



Three Days Faculty Training Program organized on Power Electronics and Drives for ABESIT faculty by the experts of Entuple Bangalore from 23<sup>rd</sup> to 25<sup>th</sup> Nov, 2016



Industry Experts in Brain Storming Session on Power Electronics and Drives in ABESIT on 25.02.2017

## (V) Center of Excellence for Analog & Embedded Systems

Established in collaboration with EdGate Technologies Pvt. Ltd.,  
Bangalore under Texas Instruments (India) University Program



**EdGate Technologies** provides high-performance ARM, DSP, FPGA processor boards and I/O modules in support of high performance, parallel processing applications.

**Texas Instruments** is a global semiconductor design and manufacturing company who has innovated thousands of analog ICs and embedded processors, along with software and tools.

The **TI University Program** is a global program dedicated to support educators, researchers and students in facilitating the inclusion of TI analog and embedded processing in engineering classrooms, teaching and research labs, textbooks and design projects.



Director, Texas Instruments University Program  
Mr. Sanjay Srivastava inaugurating the CoE for Analog and  
Embedded Systems in ABESIT Campus on 07.09.2016



Two Days Faculty Training Program organized on Analog &  
Embedded Systems under TI University Program for ABESIT faculty  
by the experts of EdGate Bangalore from 24<sup>th</sup> to 25<sup>th</sup> July, 2016

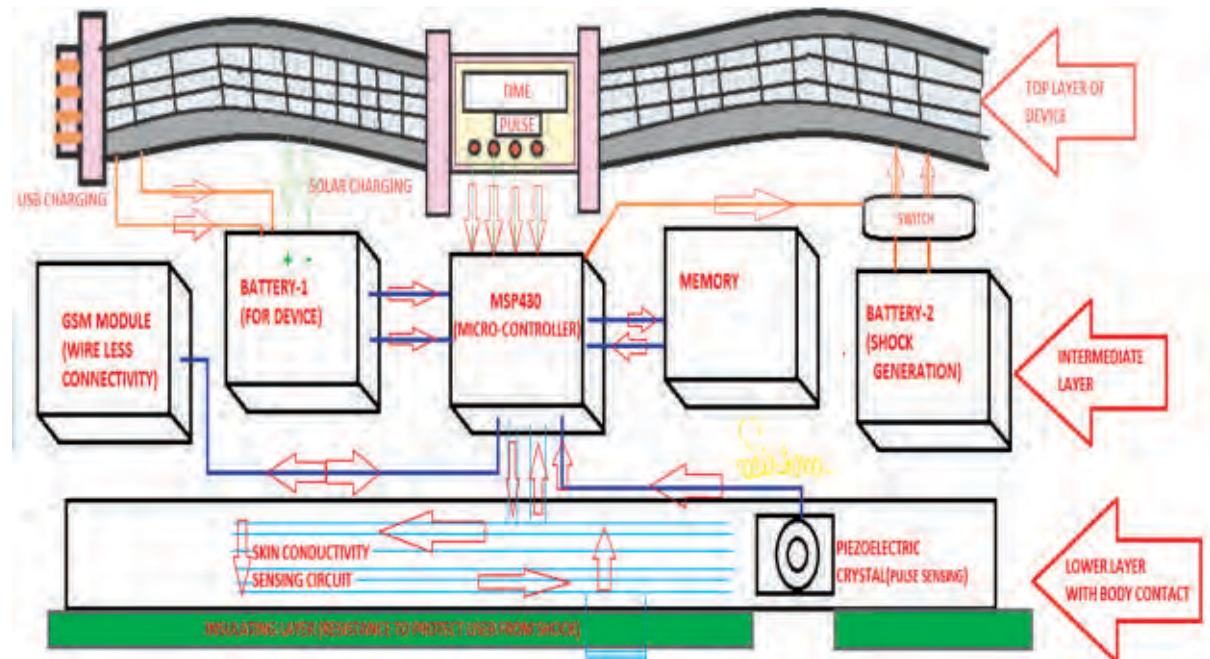
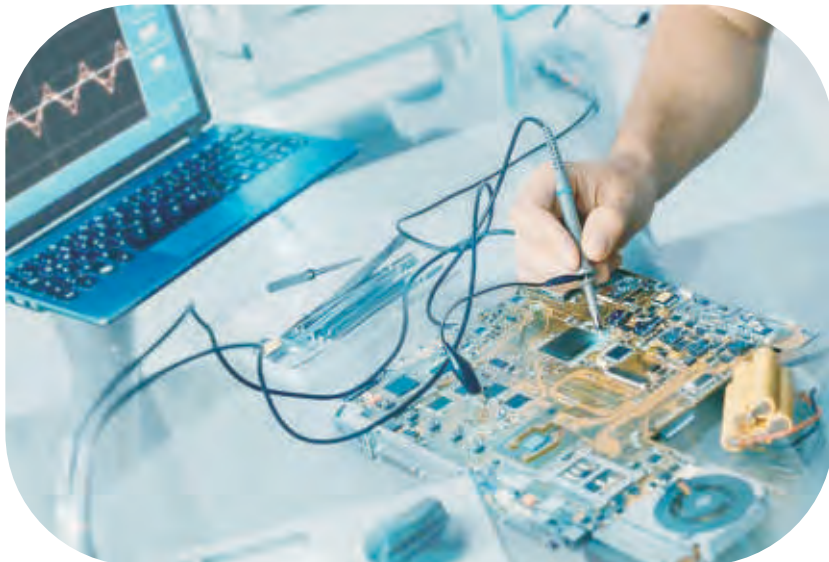


**First Batch of 41 students** of Electronics & Communication and Electrical Electronics Engineering have been trained on Analog Technologies in our CoE by ABESIT faculties. The training of **Second Batch of 18 students** on Embedded Technologies is in progress.



### **RAKSHAK-“WOMEN WITH SAFE HANDS”**

Students of ABESIT working on a Project Using TI Platform–  
**selected for a National Level Project Competition SrishTI**  
 launched by AKTU in association with TI



***Our Students are regularly attending the Webinars  
 and Quizzes on Analog & Embedded  
 Technologies conducted by Texas Instruments***

## (VI) e-Yantra Lab Setup Initiative in Embedded Systems & Robotics

Initiated on 02.05.2016 which is supported by Indian Institute of Technology, Bombay and Sponsored by MHRD through National Mission on Education through ICT (NMEICT)

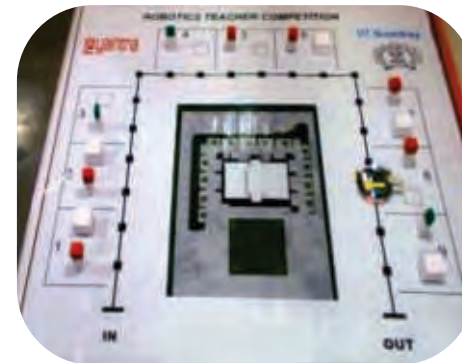
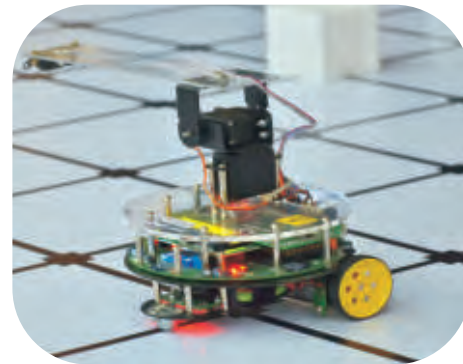


E-Yantra is a project by IIT Bombay to spread education in Embedded systems and Robotics, however e-Yantra Lab Setup Initiative (eLSI) supports infrastructure creation by providing a platform for training teachers both in theory and applications of Robotics, in addition to providing guidance in setting up a Robotics Lab.

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Online Valedictory function & e-Yantra Lab inauguration on 22<sup>nd</sup> Nov, 2016 in ABESIT by IIT-Bombay



Robot on which students of ABESIT developing the projects



#### eLSI Workshop

Four Teachers of ABESIT in Two Days workshop to attend training on the basic concept of Embedded Systems and Microcontroller programming organized by IIT-Bombay from 30<sup>th</sup> to 31<sup>st</sup> May, 2016.



#### TBT-2016

A National level task based training was conducted by IIT Bombay followed by an assessment of 40 participating teams from all over the country. Out of the top 8 teams, ABESIT's team of teaching faculty comprising of Prof. Pawan Singh Mehra, Dr. Ravindra Kumar, Prof. Balbir Singh and Prof. Pradeep Kumar won the coveted class "A" award and a cash prize of INR. 6000.



#### eYIC-2017

Assessment session of our students conducted by IIT-Bombay through Skype on 28.02.2017. eYantra Lab Setup Initiative (eLSI) of IIT-Bombay invited IDEAS of projects to be developed and implemented at National Level. It is a matter of pride that an IDEA "Autonomous Postman for Society" of ABESIT team of 4 students namely Bhanu Prakash ECE III year, Pranjal CSE III year, Venu Gopal ECE II year & Priyanshu ECE III year has been selected for eYIC-2017 (eYantra Idea competition).

## (VII) Center of Excellence for Big Data and Internet of Things

Established in Collaboration with Datreon, Delhi



This center is a state of the art lab of its own kind in NCR, equipped with latest software and hardware which are currently used for big data domain Training. The objective of this center is to provide thorough understanding of the concept from virtual to real world, bridge the gap between Institute & Industry and prepare Industry ready technocrats. The students of ABESIT and experts from Datreon will jointly work on live projects which are based on Smart Cities.



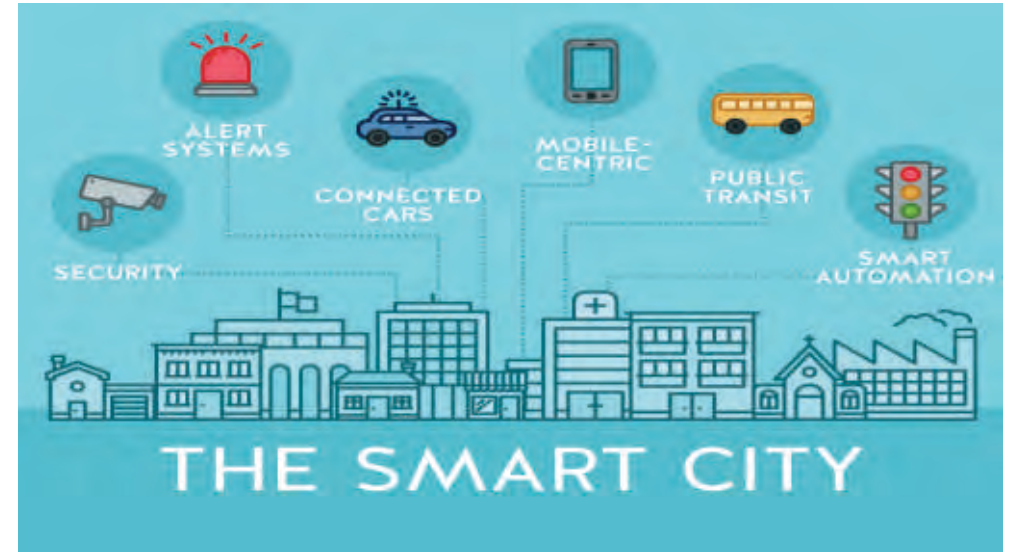
CoE for BIG DATA & IoT in ABESIT inaugurated by Prof. (Dr.) Vinay Kumar Pathak, Hon'ble Vice Chancellor, AKTU, Lucknow



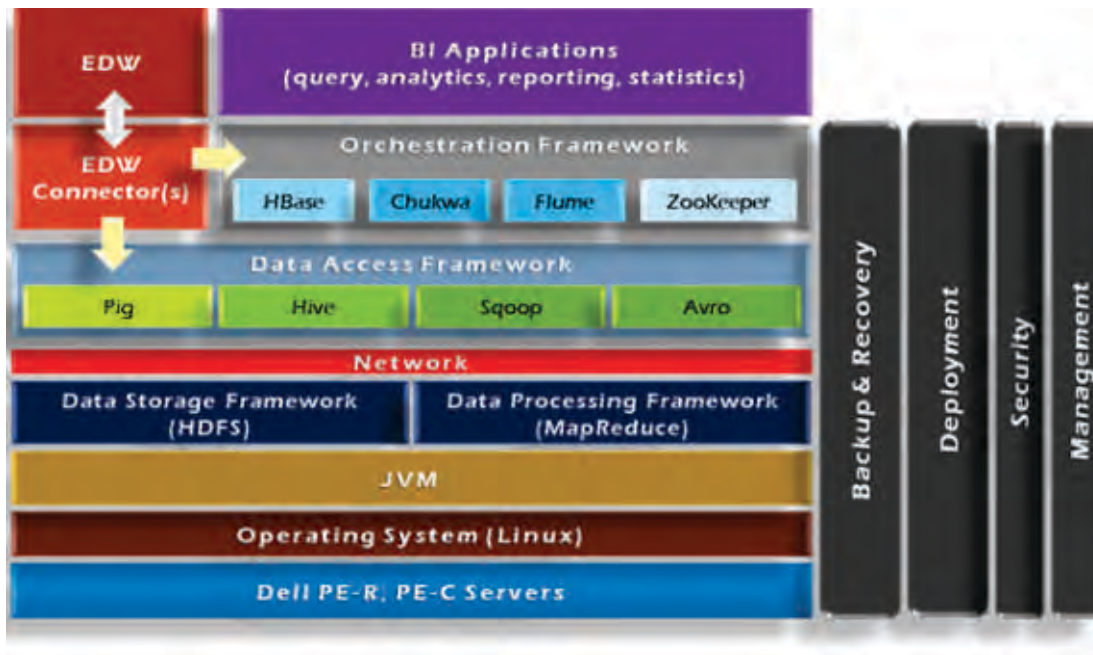
Five Days FDP from 2<sup>nd</sup> to 6<sup>th</sup> Jan, 2017 on BIG DATA Analytics inaugurated by Dr. Rishi Mohan Bhatnagar, President Aeris India in which **18 faculty members** from various Institutes have participated



Two Days FDP from 7<sup>th</sup> to 8<sup>th</sup> Aug, 2016 on BIG DATA Analytics inaugurated by Prof. (Dr.) Vinay Kr. Pathak Hon'ble Vice Chancellor, AKTU in which **36 faculty members** from various Institutes have participated



A batch of 25 students from Computer Science Engineering and Information Technology has already been trained on Big Data Analytics by the experts of Datreon and now ready to work on live project based on Smart City, Health Care and Rain Harvesting.



**Hadoop Framework Tools**

**ABESIT is organizing  
National Level Project Competition  
Under the Patronage of AKTU, Lucknow**



**7<sup>th</sup> - 9<sup>th</sup> April, 2017**

## (VIII) Center for Structural Design & Analysis

The Center for Structural Design & Analysis has been established to empower the students of Civil engineering with state of the art **Bentley software suit** which includes 24 software specially **Staad.pro, MX Road, WaterGEMS & SewerGEMS**.

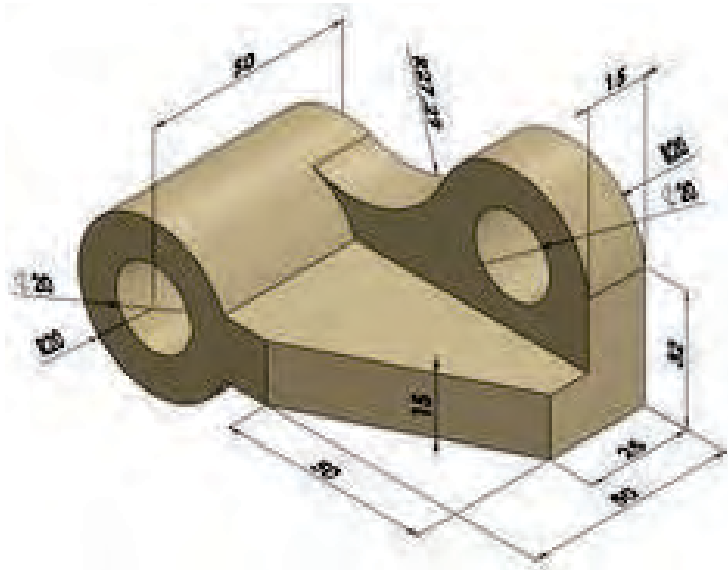
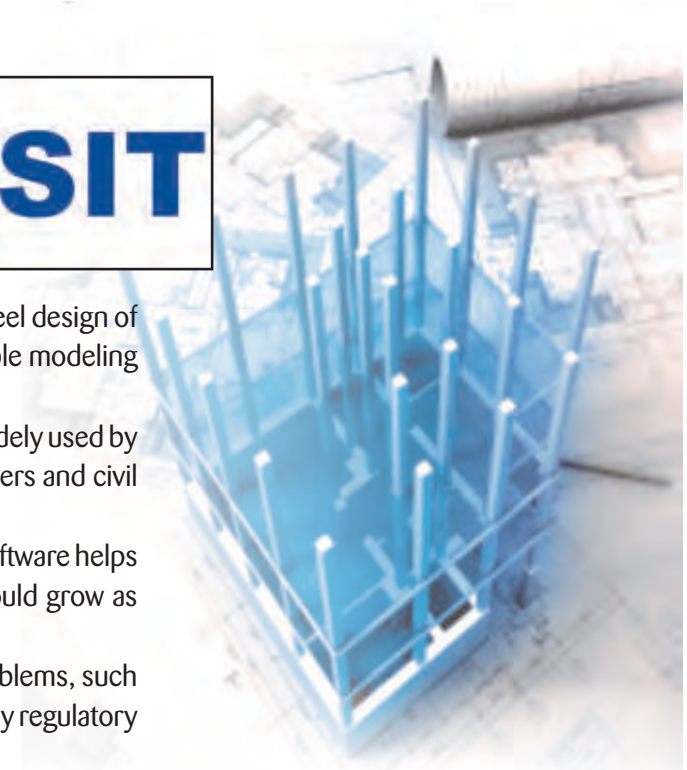


**STAAD.Pro** is the structural engineering professional's choice for steel, concrete, timber, aluminum, and cold-formed steel design of virtually any structure including culverts, petrochemical plants, tunnels, bridges, piles, and much more through its flexible modeling environment, advanced features, and fluent data collaboration.

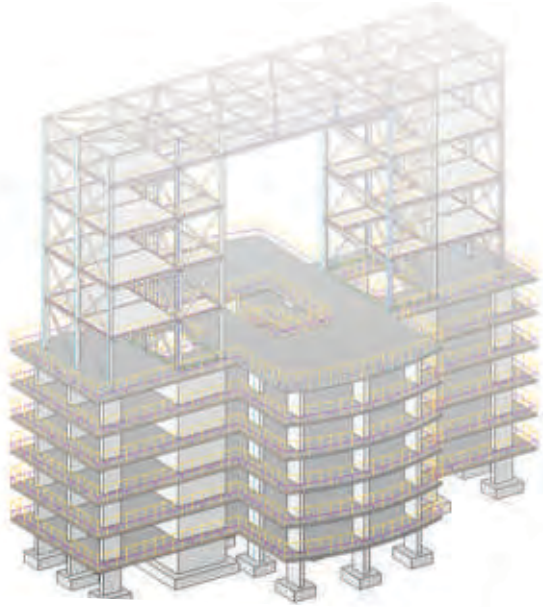
**MX Road** is an advanced string based modeling tool that enables the rapid and accurate design of all types of roads. It is widely used by civil engineers, designers, professional surveyors, geotechnical engineers, storm drainage/water/sewer system designers and civil engineering consultants.

**WaterGEMS** provides with a comprehensive yet easy-to-use decision-support tool for water distribution networks. The software helps improve knowledge of how infrastructure behaves as a system, how it reacts to operational strategies, and how it should grow as population and demands increase.

**Sewer GEMS** streamlines the modeling process, so that designer has more time for solving wastewater engineering problems, such as improving capacity and limiting sewer overflows, which ultimately enable utilities to comply with sewer regulations set by regulatory agencies.



First two Batches of 91 students of Civil Engineering have been trained on Staad Pro software in June'16



**Third Batch of 41 students** of Civil Engineering has been trained on MX-Road software in Sept'16



Industrial Visit on NH 24, for a stretch of 15km, was the part of MX-Road Training Program (Batch 3)



Industrial Visit to Brahmaputra Enclave, Siddhartha Vihar construction site was the part of Staad.pro Training for both batches. (Batch 1 & 2)

## (IX) Center for Remote Sensing and Geographic Information System

Established in Collaboration with National Institute of Hydrology, Roorkee



**National Institute of Hydrology (NIH), Roorkee**, a premier institute under the **Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD & GR)** was established in 1978 with the objective of undertaking, aiding, promoting and coordinating systematic and scientific work in the area of Ground and Surface Water Hydrology, Remote Sensing, Geographic Information System (GIS), Environmental Hydrology, Water Quality, and of Water Resources Engineering and Management.

**ABES Institute of Technology (ABESIT), Ghaziabad** established a **Center for Remote Sensing and Geographic Information System (GIS)** for carrying out studies/projects using Remote Sensing and GIS techniques for the estimation of irrigation water requirement, soil erosion, and reservoir sedimentation, watershed management, rainfall-runoff modeling, flood zone mapping, and surface water modeling in collaboration with National Institute of Hydrology (NIH), Roorkee.

Recently, a group of 5 final year Civil Engineering students of ABESIT visited and stayed for a week at NIH to carry out their final year project of Flood Zone Mapping under the expert guidance of Prof. Dr. Sudhir Goyal, HOD Civil Engineering Department, ABESIT and Dr. Sanjay Jain, Scientist G, NIH. More similar projects are being developed by the students and faculty of ABESIT in collaboration with the scientists of NIH.

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Directors of NIH, Roorkee and ABESIT exchanging MoU at Roorkee



National Institute of Hydrology, Roorkee

A Geographic Information System (GIS) links locational (spatial) and database (tabular) information and enables a person to visualize patterns, relationships, and trends. This process gives an entirely new perspective to data analysis that cannot be seen in a table or list format. The five components of a GIS are listed below.

### HARDWARE

The hardware is the computer and peripherals on which the GIS operates. Today, this could be a centralized computer server running the UNIX or Windows NT operating systems, a desktop PC, or an Apple Macintosh. The computer may operate in isolation or in a networked configuration.

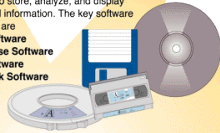
- Computers
- Networks
- Peripheral Devices
- Printers
- Plotters
- Digitizers



### SOFTWARE

GIS software provides the functions and tools users need to store, analyze, and display geographical information. The key software components are:

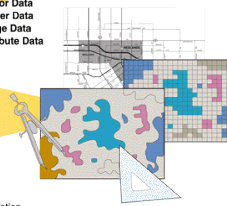
- GIS Software
- Database Software
- OS Software
- Network Software



### DATA

One of the most important component of GIS is the data. It is absolutely essential that data be accurate. The following are different data types:

- Vector Data
- Raster Data
- Image Data
- Attribute Data



# GIS

### PEOPLE

GIS technology is clearly of limited value without people to manage the system and to develop plans for applying it. Users of GIS range from highly qualified technical specialists to planners, foresters, and market analysts who use GIS to help with their everyday work.

- Administrators
- Managers
- GIS Technicians
- Application Experts
- End Users
- Consumers



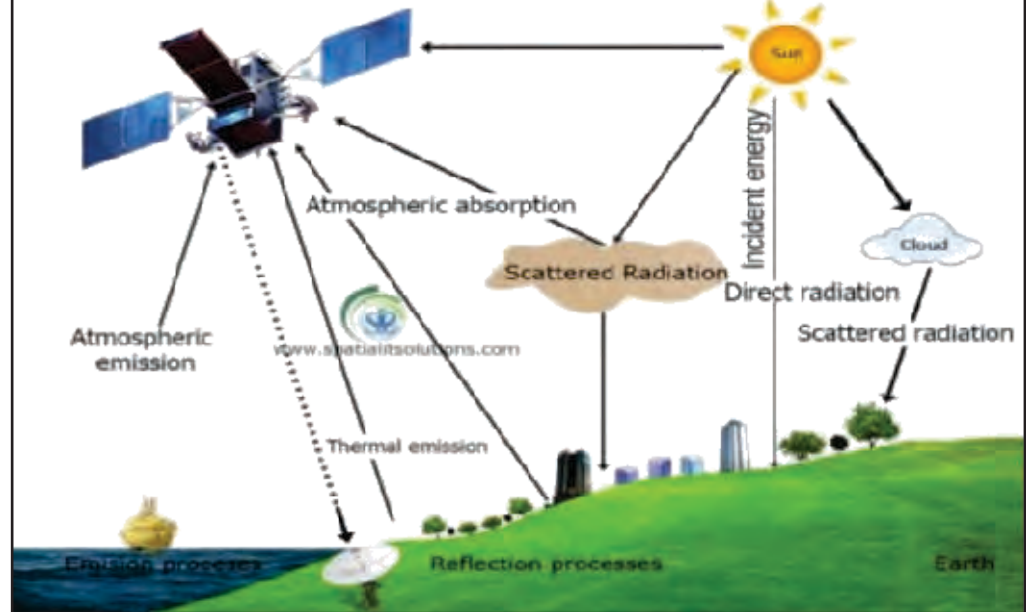
### METHODS

Methods are well designed plans and application-specific business rules describing how technology is applied. This includes the following:

- Guidelines
- Specifications
- Standards
- Procedures



## REMOTE SENSING



Geographic Information System & Remote Sensing Lab at National Institute of Hydrology, Roorkee



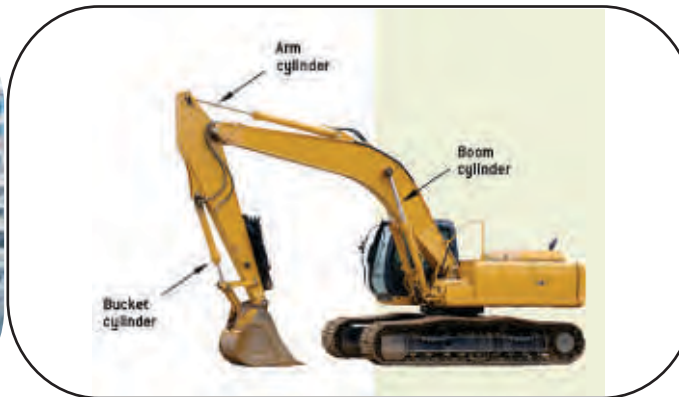
ABESIT Civil Engineering Students in Project discussion at NIH, Roorkee

# (X) Bosch Rexroth Germany Center of Excellence in Automation Technologies – Hydraulic Systems

Established in collaboration with Bosch Rexroth, Germany

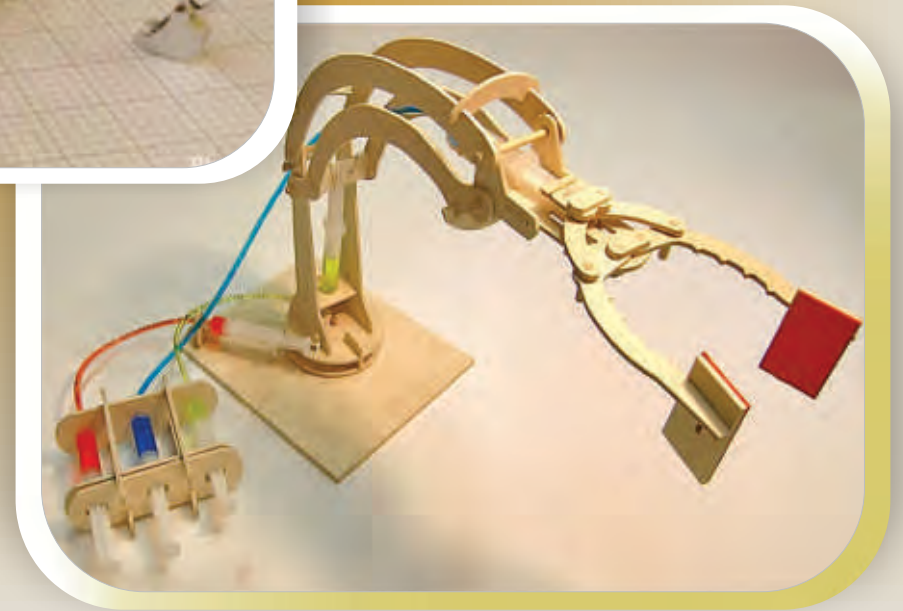
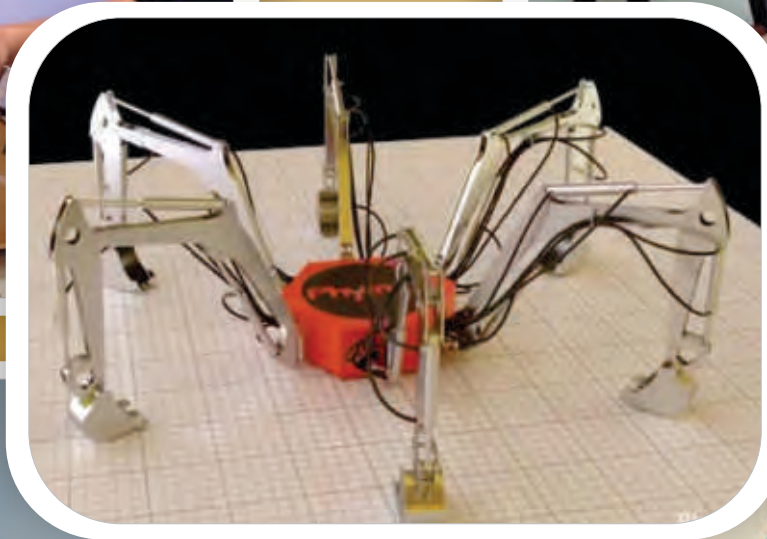


Bosch Rexroth offers its customer's hydraulics, electric drives and controls and linear motion and assembly technology all from one source. The focus of this Center of Excellence will be training and skill development of our students and provide them experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation to develop innovative components as well as tailored system solutions and services.



Factory Automation using Bosch Drive & Control Technology

## Proposed Projects to be taken up at **ABESIT**



# (XI) FESTO Center of Excellence in Industrial Automation – Pneumatic Systems

Established in collaboration with FESTO, Germany



**FESTO**, is a German company and a performing leader in process automation training.

The intend of the CoE which is being established in ABESIT is to impart international standard training on process automation and also provide the German dual education system opportunity which will enable students to connect their theoretical knowledge with the real demands of production. Center will offer students a direct axis to Industrial knowledge and technologies with Connected Learning.

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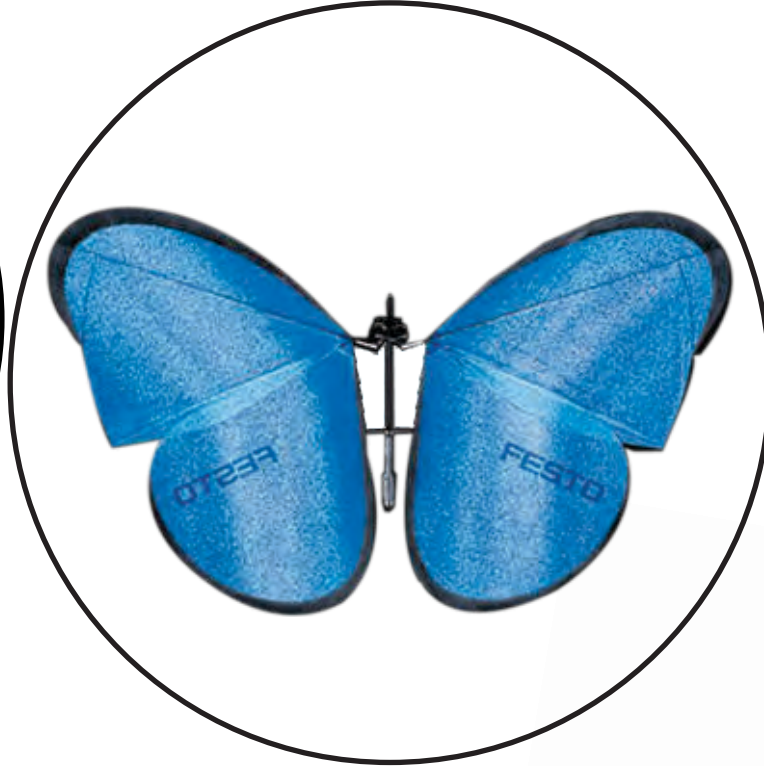
Process Automation in Industry



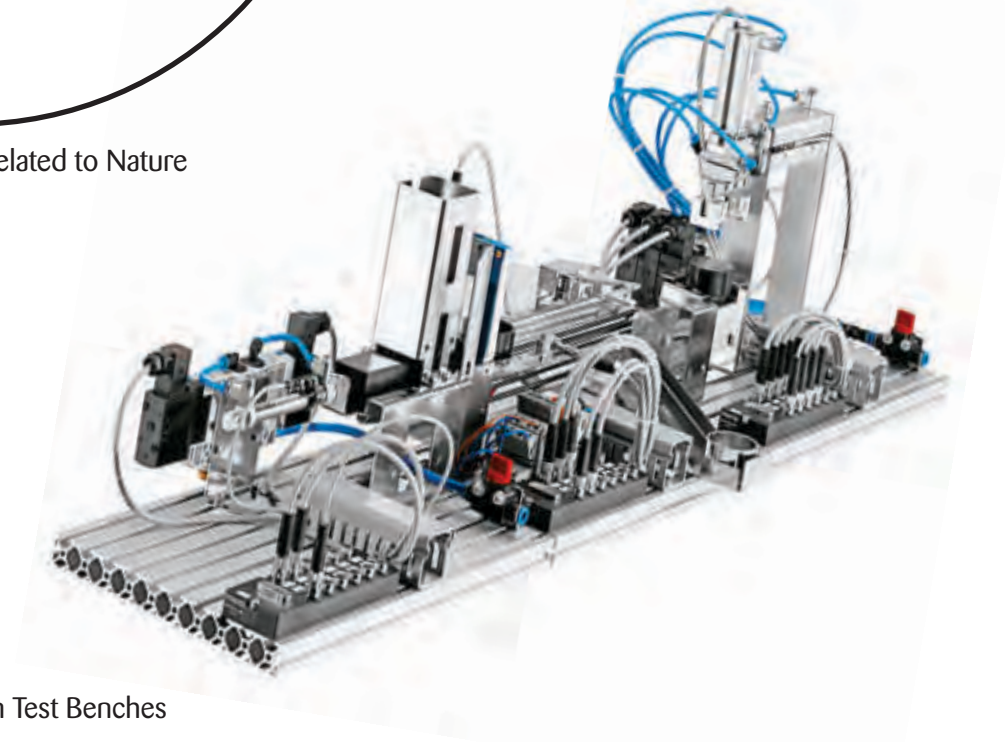
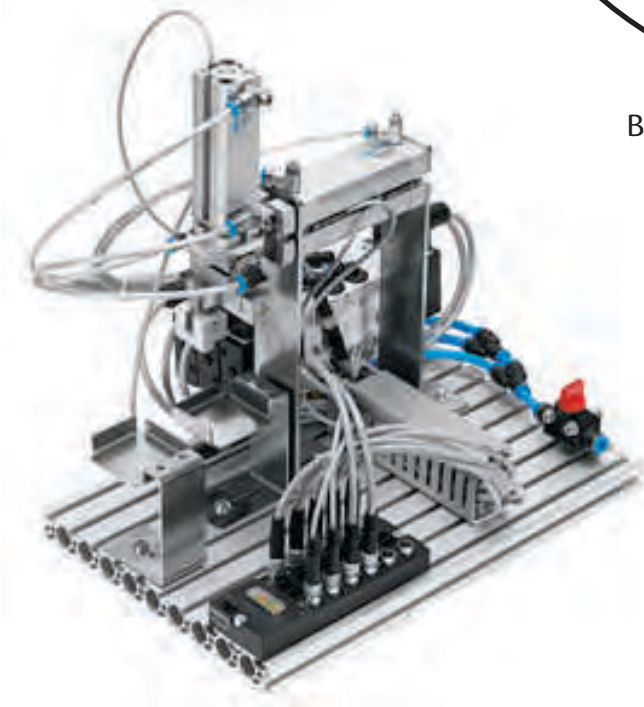
Application of Pneumatics in the area of Robotics



FESTO, Germany



Bionic Applications related to Nature



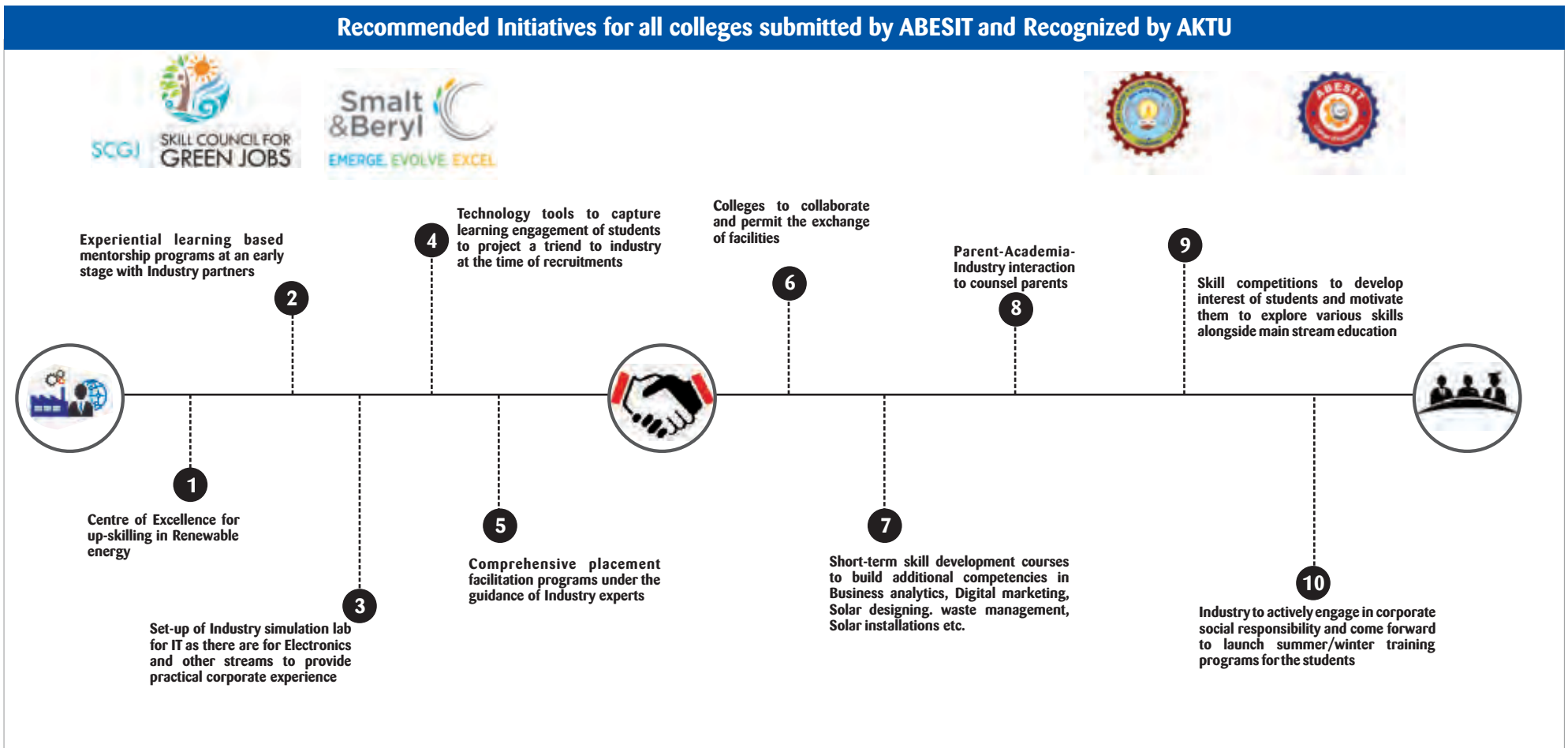
Process Automation Test Benches

# Bureau of Training and Development

ABESIT works in close collaboration with the National Skill India Mission and has been bestowed the responsibility to partner in India's endeavor to bridge the Skill Gap between the Industry and Academia, thereby making students work ready.

To empower our students so that they not only meet but in fact exceed the expectations of Industry, we, at ABESIT, have launched a Skill Development Mission under the aegis of Bureau of Training and Development. This mission has been conceived after thorough deliberations between senior personnel from Industry, Academia and members of the Skill India Mission, Govt. of India. A team, comprising of representatives from Top MNCs, leadership from Academia, and senior officials from Govt. of India, was constituted under the leadership of Hon'ble Advisor (ABESIT), to extensively analyze the gap areas, and then identify effective means to reduce this gap. The recommendations of this expert group, spearheaded by ABESIT, have been appreciated and recognized by Hon'ble Vice Chancellor of our university and have been forwarded to all other colleges of AKTU to execute Training and Development on those lines. At ABESIT, we have taken all possible steps to implement these initiatives so that our students are fully ready to face the challenges of work life, before entering into it.

## Recommended Initiatives for all colleges submitted by ABESIT and Recognized by AKTU



ABESIT in collaboration with Smalt and Beryl Pvt. Ltd, an Industry Associate of Skill Council for Green Jobs (National Skill India Mission) have set-up a first of its kind Mentorship Center for Industry Readiness and Career Development. The center offers an in-person, experiential learning based mentorship program which provides a holistic transformation platform for engineering students to secure their dream jobs. It empowers students by helping them internalize work-ready competencies in an industry simulated environment under the guidance of Industry experts, making the students' candidature compelling for selection in top companies.

At Margdarshak, all the students get a personalized guidance, which is available all-round the year. The mentorship starts with an introspection of key attributes such as aptitude, the innate potential, aspirations, and goes into the realms of performance critical competencies which include industry best practices, smart working - tips and tricks, management acumen, life skills and technology acquaintance. Hence, it develops an overall ability of students to adopt to Industry challenges and leave an indelible impact right from the start of their careers.

To facilitate this, ABESIT has developed a state-of-art office simulation lab, which replicates a Job like environment for students to learn and grow. The center is frequently visited by Industry stalwarts from leading MNCs across India where the professionals interact with students and share experience on what it takes to be a successful professional.

For the Industry, this program creates a tailor made talent pool which is available for the companies at the time of recruitments. This is achieved by a dedicated team of Margdarshak, which interacts with the Industry, understands their needs in terms of vision, technical competencies and cultural values and then customize trainings to groom the students as per the need. This not only prepares the students in the right direction but also ensures that for the companies, the chances of finding an appropriate fit increases considerably. Hence a win-win situation is created for all the stakeholders – Students who are looking for jobs, the companies who need productive resources and the institution which aims to make the two ends meet by ushering in a plethora of job opportunities for the students.



# Program Modules

## Technology Awareness



## Industry Differentiator Skills



## Industry Internship



## Placement Facilitation





1

Responsibility



Thinking through the implications of the decision  
Being a faculty member is not a simple  
job with a salary.  
The ability to handle the emotional issues  
with care is almost always overlooked.  
Continuing to work with a student  
after graduation is a challenge.

मार्गदर्शक  
come to the  
week roller coaster  
Make the most of

## Beyond Boundaries

At ABESIT, Sky is the limit. The college provides an appropriate platform for all students to hone their skills and exhibit their potential through a plethora of Extra-Curricular and Co-Curricular activities organized at National and International arena. Students transcend beyond the realms of class room teaching and grow themselves by leveraging the exposure required for all round nurturing.

### (I) 4<sup>th</sup> International Conference on Transformation of Engineering Education (ICTIEE)

ABESIT Professors of Computer Science & Engineering Department, Prof. Pawan Singh Mehra & Prof. Gaurav Agarwal with Prof. Krishna Vedula (Dean Emeritus, University of Massachusetts Lowell, Executive Director, IUCEE) & International Delegates of Brazil, Russia & U.S.A. at 4<sup>th</sup> International Conference on Transformation of Engineering Education (ICTIEE-2017) held on January 11<sup>th</sup>, 2017 which was organized by Indo Universal Collaboration for Engineering Education (IUCEE) conducted by Manipal University, Jaipur.



## (II) An Interactive Session in ABESIT by International Expert Prof. Krishna Vedula

An Interactive Session on “Project Based Learning” was delivered by Prof. Krishna Vedula (Dean Emeritus, University of Massachusetts, Lowell, and Executive Director, IUCEE) on 26<sup>th</sup> August, 2016.



### (III) Tetrahedron 2016

A two day competition 'Tetrahedron' was organised by ABESIT, in association with the Computer Society of India (CSI). Around 300 Students from various AKTU colleges participated in the event.



### (IV) IDEATION COMPETITION - IDEA-11 contest 2015

IDEA-11 contest was organized by ABESIT to convert innovative ideas of students into products, thereby grooming the entrepreneurial and technical skill set of students. These ideas are being incubated at every stage to provide all the support needed by the students to take it to the next level. Selected students were rewarded with a Certificate of Appreciation and a Cash prize of Rs. 1000/- each for 11 unique ideas.

**ABESIT**  
idea to innovation

# IDEA-11 CONTEST

For the Students of B.Tech. Second, Pre-Final & Final Year (All Branches)

**Organizing Committee**

**Coordinators**  
Ms. Manjul Chandravanshi, Assistant Professor, C.E.  
Mr. Manish Mishra, Assistant Professor, C.S.E.  
Mr. Pawan Singh Mehra, Assistant Professor, C.S.E.  
Mr. Pradeep Kumar, Assistant Professor, E.C.  
Mr. Jitendra Kumar, Assistant Professor, E.E.E.  
Mr. Avinash Trivedi, Assistant Professor, M.E.

**Convener**  
Prof. Sandeep Garg, Head (ABESIT-CEI)

Last Date of submission of ideas : 12.10.2015  
Presentation of selected ideas (30 Max.) : 31.10.2015

**Reward Ceremony**  
05.11.2015

- Cash prize of Rs. 1000/- each to the best 11 Ideas
- Certificate of Appreciation
- Opportunity to Convert the Ideas into Products



## (V) An Evening with the President of India - Diamond Jubilee Celebrations of Engineering Export Promotion Council (EEPC)

Students of ABESIT from Pre Final & Final Year of CE, CS, IT, EEE, EC & ME department were nominated to witness the ceremonial function of Diamond Jubilee Celebrations of Engineering Export Promotion Council, India at Vigyan Bhawan, New Delhi. Shri Pranab Mukherjee, Hon'ble President of India was the Chief Guest.



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## (VI) Industrial Visit to JCB India Limited

ABESIT students of Final Year B.Tech. ME & EEE visited the world class manufacturing plant of JCB India Limited, one of the world's top three manufacturers of construction equipment, employing around 10,000 people on 4 continents and selling products in 150 countries through 2,000 dealer depot locations.



## (VII) ABESIT Personality Development Program

With an aim to hone the aptitude and personality of students, ABESIT conducts a number of Co-Curricular Activities for the holistic nurturing of students through a Personality Development Program.

**Aptitude Training**

**Soft Skills and Etiquette Training**

**Resume Writing**

**Group Discussion**

**Aptitude Tests**

**Psychometric Test**

**Industry Guest Lectures**

**Industrial Visit**

**Personal Interview**



# Corporate Resource Center (Placement Cell)



**Mr. Nitin Jain**  
Head-CRC

## From the Head of CRC's Desk

A key parameter to evaluate the efficiency of any Education Institution is to look at the value add and impact its Alumni can create in the society at large. Hence, it becomes imperative for the Institution to not only prepare the students to be differentiators but also to provide them with opportunities in the Industry to prove their worth.

At CRC, we do whatever it takes to ensure that the corporate world is well apprised of the talent pool we have in-house and gains sufficient confidence to give us an opportunity to host them for recruiting our young, passionate and bright minds.

We work very closely with the Academia and the Industry to understand what the need of the hour is and then act as a bridge between the two to ensure any gap, whatsoever, is reduced to produce professionals that delight the Industry. This approach is the underpinning of a large and diverse network of Industry Associations ABESIT has in the market.



### Industry Connect

**Establish** relationship with top MNCs and other core organizations by apprising them about the ABESIT's talent pool and organizing interactions between corporates and students through Industrial visits



### Campus Drives

**Facilitate** end to end recruitment drives including Off campus and Pool campus recruitments by inviting dream companies of students at ABESIT



### Placement Policy

**Formulate** and update effective placement policy to ensure seamless recruitment of all the deserving candidates in the companies of their choice



### Placement Counselling

**Provide** guidance to students through orientation sessions before every campus placement drive. In addition, all queries are addressed thereby making students confident before the recruitment begins

## Key Activities at CRC

## Placement Demographics 2015-2016

With the growing penetration of Alumni of ABESIT in top companies in India and Abroad, and the indelible impact left by them at their workplace, ABESIT is increasingly becoming the **most preferred recruitment destination for top-notch corporates across the country**. Be it the giants of IT Services such as TCS, IBM and HCL or the big guns from Energy, Automobile or Civil sectors, the students of ABESIT are appreciated for their analytical mindset, attitude and domain competence. The year 2016 is a testimony to this fact, which is also strengthened by the sentiments shared by eminent professionals of our country.



"With the vision to establish India as the 'skill center' of the world, we are banking on Institutes such as ABESIT, which produce not only qualified Engineers but also skilled professionals, who can stand out and deliver from day 1. This is exactly the kind of talent Industry needs today."

### Dr. Praveen Saxena,

C.E.O.

Skill Council for Green Jobs (Skill India)

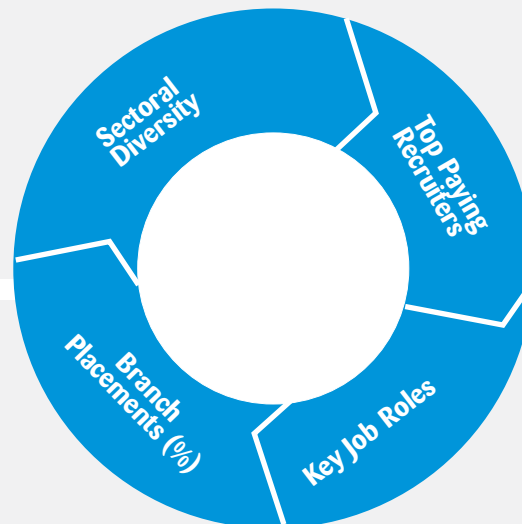
Former Director for General and Advisor to Govt. of India

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Maintaining high standards of Education across all branches, ABESIT has stood out in all the Engineering domains – a fact which is well evident from the diversity of placements, the nature of recruiters, a high hit ratio and the compensation offered to students.

- Information Technology (Services)
- Information Technology (Products)
- Manufacturing (Electronics)
- Automobiles
- Renewable Energy
- Construction

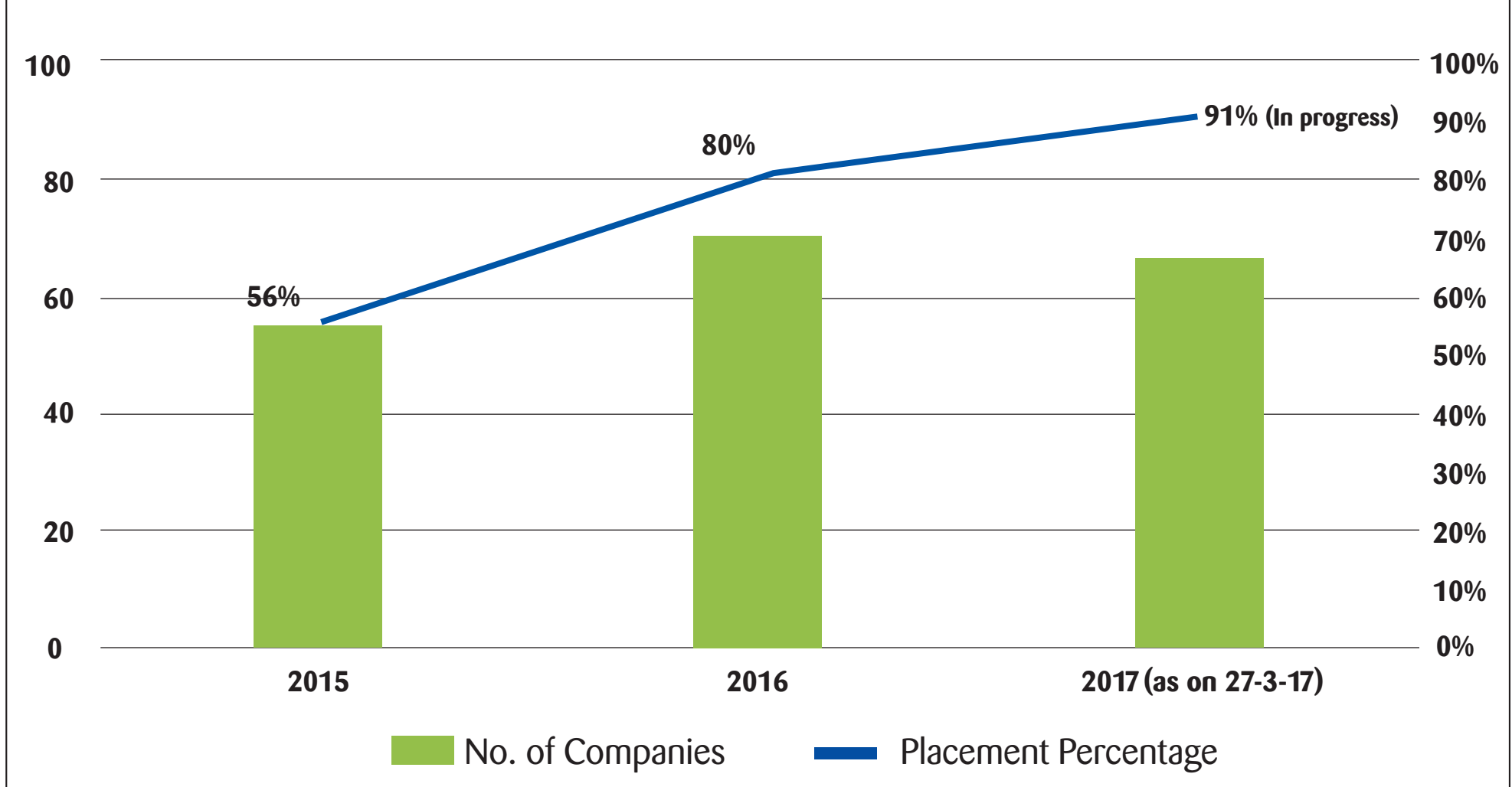
- CSE/IT 88
- ECE 82
- Mechanical 76
- Civil 74



- IBM
- Samsung
- Arabol Lubricants
- Capgemini
- TCS
- Amazon
- HCL

- Software Developer (Web & Mobile)
- Business Analysis
- Operations and Logistics
- Quality Assurance
- Product Design and Planning
- Sales and Marketing (BD)

## Placement Trend at ABESIT



Statistical representation (last 3 batches) of the number of companies which came for campus recruitment and the percentage of students placed

# Students' Speak (Batch of 2017)

ABESIT has been on the forefront of Redefining Education and Transforming Lives of many budding technocrats since its inception. Some of our students from the class of 2016 shared their views on how this journey had been for them.



**Akshita Puri**

*Hewlett-Packard & HCL Technologies*

I was very happy and excited with the offer from HCL Technologies, just when another opportunity knocked my door. A pool campus recruitment in suburban campus made me come closer to achieve my dream of getting associated with such a big brand Hewlett-Packard. The staircase to the final destination was really tough and full of hurdles, but my perseverance and hard work paid off. More thankful to my teachers, family, staff at ABESIT and CRC members specially Nitin Jain Sir, thank you for getting me closer to this opportunity and supporting me to grab it. I am proud to get this honor to my institute, ABESIT.



**Ayushi Mangal**

*QA Infotech*

I would like to thank all my faculty members and the CRC department for their constant support and guidance. I would also like to acknowledge my friends who helped me groom my overall personality. It is a privilege for me that I got placed through my college and now I have a wonderful opportunity to build my future.



**Avijit Kumar Srivastava**

*QA Infotech*

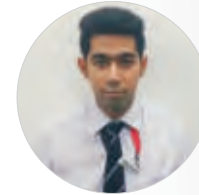
It is a proud moment for me. I thank all my faculty members and the CRC department for their extensive support, guidance and help to groom my overall personality. It is a privilege for me that I got placed through my college and now I have a wonderful opportunity to build my future.



**Yathansh Sharma**

*Webkul Software*

I would like to thank to all our respected CRC coordinators, who have provided us with constant support and information so that we can do well in our placement drives. At the same time, I would also like to thank our entire faculty to provide us with the knowledge which helped us to crack through the various rounds to secure our future.



**Himanshu Kamra**

*HCL Technologies*

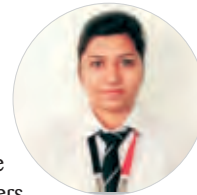
I always was fantasized by IT organisations and their work culture. I was super excited to hear about the visit of HCL technologies to our campus, since my brother is associated with the same organisation. My excitement increased manifold, with the final call of my name being selected in HCL recruitment process. It gives me immense pleasure to thank all the teachers, staff and CRC department at ABESIT for all the skills, confidence and enlightenment that made me achieve this opportunity with ease. Looking forward to work for my dream



**Ayush Pratap Singh**

*Nucleus Software & QA Infotech*

I would like to express my sincere thanks and gratitude towards Nitin Jain Sir, Head of CRC and the entire CRC department for giving me this wonderful opportunity of kick starting my career in a great organization. It couldn't have happened without the hard work and dedication you put in all of us. I would also like to thank our HOD, Dr. Dilkeshwar Pandey Sir and all the faculty members of the Department of Computer Science for polishing us over the years and pushing us towards our goals, friends and seniors for their unwavering motivation and guidance at every step of my life.



**Mudita Sharma**

*Nucleus Software & Genpact*

I am very grateful to my college ABESIT and all my faculty members who made me what I am today and who always stood by me. I also want to thank Nitin Jain Sir, Neeti Ma'am and Balram Sir for their efforts to give students the opportunity to rise and shine.



**Priyanshi Garg**

*HCL Technologies*

I, Priyanshi Garg, student of Computer Science and Engineering, feel very proud to announce that I am placed in HCL Technologies and take this as an occasion to thank my alma mater ABES Institute of Technology, my professors, family and friends who helped me throughout to grab this opportunity. I would like to express my gratitude to Nitin Jain Sir for his constant support in the entire process of placement. It was an accomplishing experience to get placed during the initial phase of the placement session.



**Drishti Gaur** Genpact

I am extremely thankful to my institute for mentoring me & providing me a platform full of Job opportunities. I would like to thank Nitin Jain Sir and all other members of the CRC Department for giving me this opportunity. I also sincerely express my gratitude to Dr. Dilleshwar Pandey who has always motivated me. Thank You ABES Institute of Technology for helping me transcend this crucial phase of my life seamlessly.



**Vikram Chauhan** Bucks Gainer & Genpact

I would like to show my gratitude to ABESIT and its faculty. I am very grateful that I have been taught by such supportive teachers. I would also like to show my gratitude to Nitin Sir and whole CRC Department for providing me with this opportunity. Thank you for your hard work and dedication. This was not possible without you and other faculty members.



**Mukul Jindal** Sopra Steria & Genpact

I Mukul Jindal, student of Computer Science & Engineering, feel proud to announce that I am being placed in Sopra Steria and Genpact. I take this opportunity to thank my college ABES Institute of Technology, its entire faculty, management, without whom this wouldn't have been possible. I would also like to appreciate the efforts of CRC Head Mr. Nitin Jain and CS/IT HOD- Dr. Dilleshwar Pandey in calling so many elegant companies to our campus. CRC helped me a lot for getting the job and my desired profile.



**Shradha Jain** Nucleus Software & Genpact

I would like to express my sincere thanks and gratitude towards Nitin Jain Sir, Head of CRC and the entire CRC department for giving me this wonderful opportunity of kick starting my career in a great organization. It couldn't have happened without the hard work and dedication of the faculty. I would also like to thank our HOD, Dr. Dilleshwar Pandey and all the faculty members of the Department of Computer Science for polishing us over the years and pushing us towards our goals. I would also like to thank my parents, friends and seniors for their unwavering motivation and guidance at every step of my life."



**Drishti Jain** R Systems & Genpact

Keep your eyes on the stars, and your feet on the ground. I am highly indebted to this institution and its teachers who made me what I am today. I would like to thank CRC Head- Nitin Jain Sir, Neeti Ma'am and Balram Sir for supporting me and I am very grateful to my Institution for giving me the opportunity to work with a reputed companies like Genpact and R Systems. Special thanks to my family for supporting me in my hard times. I can proudly say that I owe my success to ABES Institute of Technology.



**Isha Pradhan** eTeam & Genpact

I am overwhelmed after being placed in an esteemed organization like Genpact and eTeam. I would like to thank the CRC Department and most importantly the Head Mr. Nitin Jain for encouraging me throughout the placement process and providing me with such a great opportunity. It would never have been possible without the immense support of the whole EC Department faculty, specially Prof. Sapna Katiyar (Deptt. In-charge, ECE-EEE). I am also thankful to my family and friends for their blessings, love and support.



**Neha Kaushik** Genpact

Every job is a self-portrait of the person who does it. Autograph your work with excellence. My words are less to show my gratitude to ABESIT and its faculty. My placement is a result of efforts of my college administration and CRC Department. I would like to thank CRC head Nitin Jain Sir, Neeti Ma'am and Balram Sir for giving me the opportunity to work with a reputed company like GENPACT. Special thanks to my family for supporting me all throughout. At last I would say like to thank ABESIT for giving me this golden opportunity.



**Vyom Vivek** eTeam & Genpact

I am very thankful that I have been placed from ABES Institute of Technology. The main credit goes to Mr. Nitin Jain and every member of CRC Department for their constant support and motivation. I am also thankful to all my faculty members and higher authorities for guiding me throughout these years. At last I would like to thank my family and friends for encouraging me all the time.



**Siddhart Jain** Amazon, Bucks Gainer & Genpact

I would like to offer my sincere gratitude to all our respectful CRC coordinators, who have been always eager to provide all the necessary information regarding the companies so that we could be ready beforehand. I also sincerely express my gratitude to Dr. D. Pandey, HOD-CSE/IT who has always motivated us to grow further. Finally a big thanks to all the teachers of IT department who trained me from the very beginning so that I can achieve success. Thank you ABESIT.



**Kshitij Pandey** Manlift India, Bucks Gainer & Arabol Lubricants, Dubai

As they say "The best way to predict the future is to create it and to be somebody nobody thought you could be." Due to the support of a really great CRC team of our college ABESIT and under the guidance of Nitin Jain Sir and his hard working team, I Kshitij Pandey was able to get placed at Genpact. Difficult roads often lead to beautiful destinations and you only fail when you stop trying. ABESIT taught me to never back out and made me believe in the idea to be the best version of myself. The way teachers carved my inner and outer selves here at ABESIT made me confident, optimistic and far more knowledgeable than I ever was.



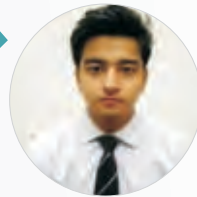
**Prateek Shukla** Devdhara Constructions

I am grateful to have been taught by such supportive teachers. I want to thank Nitin Sir, for providing me such an opportunity. And a special thanks to our Head of the Department, Dr. Sudhir Goyal, who is a true inspiration to us. One has to be confident, hardworking and positive to achieve goals. I would also like to thank Paritosh Singh Sir, who keeps on motivating us on a daily basis. So it's been a beautiful journey in this college which can not only be described by my words. But wherever I succeed in my Life, I'll thank ABESIT.

I feel ecstatic to be placed in a company like SopraSteria. I take this opportunity to thank my college ABES Institute of Technology, my Professors and all those who helped me to grab this opportunity. I am also very thankful to Nitin Jain Sir for his support in the entire process of placement. With this opportunity, I feel very confident of the future ahead and with blessings and knowledge passed on to me by my teachers and parents I shall always be successful in my career.



**Salim Shamim** Sopra Steria



**Vaibhav Sharma** Genpact, Manlift India, Nucleus Software & Arabol Lubricants, Dubai

I am proud to be an ABESIT-ian as the college focuses on personality development programmes and is well versed in technical education as well. The college focuses on all-round development of the student. It is my humble request to you all to think in right direction and all opportunities are here itself. Thank you



**Priyanka Tyagi** Devdhara Constructions

I am extremely grateful and feeling elated on being selected in Devdhara Constructions. I would like to express my wholehearted gratitude to all the faculty members of Civil Engineering Department for making me capable enough to be at par with technological aspects required in the industry today, which supported me in qualifying for the placement activities. I would like to express my gratitude towards our HOD, CE department -Dr. Sudhir Goyal who always motivated us and would also like to thank Nitin Jain Sir (Head of CRC) for believing in our capabilities and providing us with enough opportunities for the placement drives due to which I got a campus placement. It's a privilege for me that I got placed through my college and now I have a wonderful opportunity to build my future because of ABESIT.



**Naman Verma** Nucleus Software

I am extremely thankful to ABESIT for mentoring me and providing me a wonderful set of job opportunities. I would like to add a special thanks to Nitin Jain Sir (Head of CRC) for his tremendous cooperation in the entire placement process. I would also sincerely express my gratitude to Dr. D. Pandey (Head of Department) for his immense motivation. At last I would like to thank my family and friends for their support in this crucial phase of my life.



**Vaidehi Sharma** eTeam

I am highly obliged to this institution and its teachers who made me what I am today. I would like to thank CRC Head- Mr. Nitin Jain, Neeti Ma'am, and Baram Sir for supporting me and I am very grateful to my Institution for giving me many wonderful opportunities. Special thanks to my family for supporting me in my hard times and so today I can proudly say that yes I am student of ABES Institute of Technology.

**Vibhore Gangal** Nucleus Software & R Systems

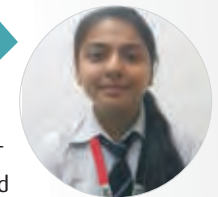
I would like to thank all my and the CRC Department support and guidance. struggle and continuous hard work I have done it. If one is confident, positive then nothing can stop him from achieving his goals and be successful in life. This is what I have learned from my college. Special thanks to Nitin Jain Sir, Head-CRC Department, Dr. D. Pandey-HOD CSE Department, my family and friends for encouraging me and for making my college life the happiest part of my life so far.

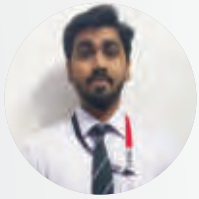


faculty members for their constant support and guidance.

**Ayushi Jain** Nucleus Software

I express my heartiest gratitude for the golden opportunity ABESIT has provided me. Getting selected in Nucleus Software was never possible without the sincere efforts of my college. My faculty, HOD, and CRC team helped me a lot at every stage especially at the time of my placement. Our CRC Head, Mr. Nitin Jain supported me a lot and always tried to build confidence in me. It was a dream come true. ABESIT not only gave me a remarkable placement but also enriched my personality.





Vineet Bhardwaj Cinda Engineering

I take this opportunity to thank my college ABESIT, Prof. (Dr.) Sudhir Kumar Goyal, faculty members & all those who helped to grab this opportunity. The most inspiring thing about the faculty members was that they always motivated us to work hard and gain knowledge. I also thank our CRC Department for providing this opportunity to appear in college placement drive. A special token of thanks to Nitin Jain Sir. I would like to wish my juniors all the best for future and make the best use of opportunities made by our college. "Success is a vehicle, which moves on a wheel named hard work, but the journey is impossible without the fuel named self-confidence!"



Parinita Singh R Systems & Nuclens Software

I am grateful to ABESIT - both the faculty and Corporate Resource Centre (Placement Dept.). They've made excellent efforts ensuring maximum number of placed students. Our college started grooming us for placements in the first few months of third year including courses such as Personality Development Program. I was completely confident and cracked the aptitude and technical tests and interview rounds due to the mock tests and interviews conducted by the CRC Department and our faculty members. ABESIT provides a great platform for skills enhancement and to get a great learning experience.

Sachin Tripathi IBM



I am very glad to announce that I am placed in IBM. I know that this moment will always be in my mind and heart forever because I am really happy, but it makes me even more happier to know that I gave happiness to the people I love the most. Today what I have achieved in my life is due to dedication, support and guidance of my parents, my teachers and my friends. I would like to thank Bipin Rai Sir without whom I wouldn't have achieved this success. He always guided me. I would like to thank Nitin Jain Sir, Head-CRC Department, whole CRC department, all faculty members and my friends. A special thanks to my best friends who always took a stand with me in bad days of my life and motivated me to move forward. All of them helped me to achieve my goal, thank you all and I dedicate this day to all of you.

I feel proud to say that I have been placed in CapitalVia, Compuware Information Technology & Bucks Gainer and take this occasion to thank the entire CRC team, faculty members, friends and family who helped me to grab this opportunity. The power you have in yourself is actually immeasurable so just believe in yourself and keep on going.



Naveen Kumar Gaur CapitalVia, Compuware Information Technology & Bucks Gainer

Anand Kumar Singh DEN Networks



I am very grateful to my college ABESIT and all my faculty members who made me what I am today and who always stood by me. I also want to thank Nitin Jain Sir, Neeti ma'am and Balram Sir for their efforts to give students the opportunity to rise and shine.



Saloni Singhal R Systems

Success is not final, failure is not fatal, it is the courage to continue that counts. I am feeling elated on being selected in R Systems International Limited. I would like to express my wholehearted gratitude to all the faculty members for making me capable enough to be at par with technological aspects required in the industry today, which supported me in qualifying for the placement activities. I would also like to thank Nitin Jain Sir (Head of CRC), Neeti Ma'am and Balram Sir for believing in our capabilities and providing us with enough opportunities for the placement drives due to which I got a campus placement. I would also like to thank my family members for giving me constant support.



Vaibhav Sharma DEN Networks

I had a wonderful journey at ABESIT, Ghaziabad. I was in the top five student list in first year and was awarded by Director Sir on College Foundation Day, which was the best day of my college journey. This was possible because of our good faculty and the learning environment provided in our college. In this journey, I met wonderful friends who are still my best buddies even today. Finally the last year came and the placements started and then the day came when I finally got placed. The goal of the entire education is successfully accomplished.

Aakanksha Tech Mahindra



I was always told that, keep on going and the chances are you will stumble on something, perhaps when you are least expecting it. Still never stop yourself from doing it. I was never counted as a good student, rather I was the one who was always having some problem when it comes to college. With the constant support and motivation of my family I gave an interview in Tech Mahindra. The happiest moment of my life came when I got a call from the HR department of the company saying that you are selected and join the company as soon as possible. I would thank Nitin Jain Sir for giving all the support. My list would be incomplete if I don't thank my parents without whom this would never have been possible.

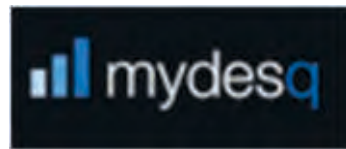
Akshat Singhal i-Xen Technology



If you are confident, positive and hardworking then nothing can stop you from achieving your goals and be successful in life, this is what I learnt in my college. I want to express my gratitude to my college for providing opportunities and enthusiastic support which helped me to get through the drive. I am immensely thankful to all the faculties and staff of CSE Department whose efforts made this day possible for me. I want to thank Nitin Jain Sir for such a support. I also want to thank my batch mates and friends for being so supportive. At last but not the least I would like to thank my parents for motivating me and guiding me towards the right path.

# Our Industry Associates and Recruiters





# Alumni Speak

ABESIT takes immense pleasure in sharing the indelible impact made by its Alumni PAN India and overseas in various walks of life - From rising to leadership positions in top MNCs to becoming top performers in Academia and Government sectors. Their success stories are inspirational and ABESIT is proud to be a part of them.

Before four years, I came to this college with some dreams in my eyes and now, after four years all the dreams have been converted into reality. In final semester I scored 93.3% and got admission in IIT Delhi. I got the title of IITian but I feel more proud when I am called as "ABESITian". All the success and results are mine but behind all these, there are great hard work and blessings of parents and teachers. I am really thankful to all the teachers who hold my hand throughout and led me to success.



**Shivam Garg**  
IIT Delhi

The four year journey of B.Tech. in ABESIT has been a wonderful experience. I feel proud to be part of this college, where my hidden talents were developed by excellent faculty members. It gave me a platform to excel on my strengths and to work upon my weaknesses.



**Neha Mishra**  
IBM

I would like to thank my college for providing me plethora of opportunities to explore my career.

I would like to wish my Juniors all the best for their future and make the best use of the opportunities provided by our college.



**Ajay Rana**  
TCS

If one is confident, positive and hardworking then nothing can stop you from achieving your goals and be successful in life, this is what I learnt from my college and this is now philosophy of my life.



**Kanchan Yadav**  
Computer Science Corporation

It gives me great pleasure to give back something to my institute in the form of vote of thanks for making me establish myself in the corporate world with ease. The high level of education and practical training imparted throughout the course to handle situations helped me not only to get the best knowledge but also the campus placement in reputed organization.



**Ridam Jindal**  
Genpact

"Campus Placement" – All my Life I have heard of it, needed it but with ABESIT, I found it. While perseverance is in your own hands, mentors are needed to guide you. I am thankful to my institute for providing me a platform full of job opportunities. The lessons learnt here don't just prepare you for the exams but for life ahead.



**Priyanka Juyal**  
NEC Technologies

I have been given many opportunities to prove my skills and work on my unexplored talents. I am very thankful for all the exposure and training sessions that are provided within the college premises.



**Tanika Rajput**  
Dynamic Vertical Software Pvt. Ltd.

# Alumni Speak

It was a great experience to be the among the first few students of my batch to get placed and that too in the first attempt. All this was possible because of the combined efforts and dedication of the college authorities and the placement cell. Being in a company which provides you a continuous growth everyday thus helping to improve your skills is something of worth.



I would like to thank all the authorities and CRC for giving me an opportunity.

**Supriya Gaur**  
Dynamic Vertical Software Pvt Ltd

I am opportunate that I got selected through campus placement through the effort of my college ABESIT. The current scenario of off campus placement is quite difficult or can say its full of struggle. ABESIT has given me such a platform to show out my talent and also being the savior from such a struggle prevailing outside campus regarding placement.



**Anmol Verma**  
ABP News

At the very outset, I wish to express my heartfelt gratitude to the management and faculty of my college ABESIT. Their unconditional support and cooperation has made me what I am today. When I started B.Tech. in this college, I was a shy, young teenager. The ample opportunities and learning experiences provided here has transformed me into a confident young girl ready to take on any challenge.



**Purnima Sharma**  
Sun Systems

An environment of growth and excellence where one can realize one's potential and focus on goals is, ABESIT. The faculty mentorship program has helped me in building confidence and realize my strengths. I thank all faculty members for guiding me continuously.



**Garima Verma**  
CSC

"If you want to shine like sun, then first burn yourself like it". One has to leave everything and dedicate completely to gain success. In order to be successful a student should be focused on goals from day one and have to update self with requirements and demands of the market. This is exactly what my Institute has induced in me.



**Garima Singh**  
Genpact

ABESIT is the ground where I got success. Since the first day, the journey was no less than a roller coaster ride with experience, learning and memories. This place has helped many aspiring minds rise to the top. I am proud to be one among them.



**Rajat Singhal**  
Sun Systems

I feel extremely delighted to express my happiness of sharing my views with you all. I would like to thank my institution ABESIT for serving such innovative and interesting ideas of learning technologies with such an ease.



**Tarun Pandey**  
IBM

I feel proud to be a part of ABESIT. The teaching and guidance here is just unparalleled. It has imparted a perfect blend of technical and soft skills, and made me ready for the industry. It was my honour to study under the guidance of such experienced faculties.



**Ashutosh Gupta**  
Josh Technology

## Significant Events 2016-17

(I) Foundation Day, Teachers' Day and Freshers' Day (5<sup>th</sup> September, 2016)



(II) Convocation (14<sup>th</sup> February, 2016)



(III) ALOHA – Farewell Party (22<sup>nd</sup> April, 2016)



(IV) Festin-O-Beats – Annual Techno-Cultural-Sports Festival (18<sup>th</sup> to 20<sup>th</sup> February, 2016)



## (V) National Industry Academia Conclave (22<sup>nd</sup> & 23<sup>rd</sup> October, 2016)



ABESIT in collaboration with Smalt and Berly Pvt. Ltd. successfully hosted Green Jobs Industry Academia Conclave on Skill Development on 22<sup>nd</sup> & 23<sup>rd</sup> October 2016. The objective of the Industry Academia Conclave was to bring stakeholders from Skill India, Skill Council for Green Jobs (SCGJ), Industry and Academia on a common platform

to understand and deliberate on the Skill Gap issue and recommend strategic initiatives to be taken by Institutions of AKTU to help in transforming students into deployable skilled professionals that delight the Industry. Dignitaries from SCGJ, various colleges of AKTU, Industry personnel from leading MNCs, International experts from Germany, and Students from ABESIT shared their views on the Skill Gap Issue and discussed different strategic solutions.



## (VI) Reminiscence – The Alumni Meet (28<sup>th</sup> January, 2017)

Nostalgia surrounds all of us as we walk the hallowed boulevards of our youth. The Annual Alumni Meet brings to our alumni a chance to reconnect with their Alma Mater. It lets them relive the carefree days of their college lives as they get a chance to visit all the locations they once frequented. Alumni from different batches recalls their past memories & appreciate the contribution of the Institute & Faculty members in helping them transform into a better human being – Personally and Professionally.



## Recent Awards and Honors



**“Edupreneur Award”**  
 Awarded to **Mr. Ashu Goel**  
 (Chairman, ABESIT) for  
 contribution in Engineering  
 Education in India, by  
 Shri Sushil Kumar Singh  
 (Member of Parliament) at  
 Russian Centre of Science  
 and Culture, New Delhi

**“Best Engineering  
 Institute (Self-Financed)  
 in NCR”**  
 By Shri Anand Kumar,  
 Founder of ‘Super 30’



**“Shiksha Gaurav Puraskar”**  
 Awarded to  
**Prof. (Dr.) Bhavesh Kumar Chauhan**  
 (Director, ABESIT) for outstanding  
 & exemplary contribution to  
 Education by Centre for Education,  
 Growth & Research (CEGR)

**“National Employability  
 Award”**  
 By Aspiring Minds



**“Teacher’s Excellence Award”**  
 Awarded to **Prof. Sapna Katiyar**  
 (Department In-charge ECE  
 & EE, ABESIT) for Outstanding  
 Contribution in No. of  
 Paper/Journal/Books Published  
 by Confederation of Education  
 Excellence (CEE)

**“Spirit of Partnership  
 Award”**  
 By Tata Consultancy Services



# Infrastructure and Facilities

## Institute Library

### About:

Library is an integral part and the nerve center of ABES Institute of Technology, imparting its services to students, faculty and other staff members. It offers excellent services in line with the objectives and mission of the Institute. The primary mission of the library is to support the Educational and Research programs of the Institute by providing physical and intellectual access to information, consistent with the present and the anticipated Educational and Research functions of the Institute.



### Salient Features:

- Total area: 8,230.00 Sq. ft.
- Seating Capacity: 150+
- Fully automated & centrally air-conditioned library
- Automated circulation (Using SIM Software)
- Audiovisual Section
- Wi-Fi Connectivity
- Digital Library
- Access to thousands of e-books & e-journals
- IIT & NPTEL Video Lectures
- Well protected with fire equipment
- CCTV camera surveillance
- Disabled friendly building with ramp facility

### Library Collection:

- Over 46000+ books on Engineering, Management & other allied subjects
- 422+ Bound volumes of Journals
- 3389+ Lecture Videos/CDs
- 2426+ Project Reports
- IIT & NPTEL Video Lectures
- AKTU Previous years Question Bank
- Subscribed 11 News Papers
- Subscribed renowned Magazines & Journals



### Technology

- Cyclostyle Machines
- Photostat Machines
- Scanners
- Lamination Machines
- CD Writer
- CCTV Cameras
- Spiral Binding Machines



REFERENCE SECTION



STACK ROOM



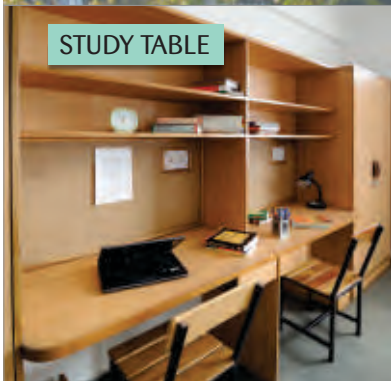
READING SECTION

### Library Services

- **MOODLE (Modular Object Oriented Dynamic Learning Environment):** An Online service which helps in creating a personalized learning platform serving as an interface & interaction between the faculty & students, where the faculty can share its lecture notes
- **Library Catalogue (OPAC):** Institute Library provides computerized catalogue search services through the Online Public Access Catalogue (OPAC). The bibliographic record has the data of more than 46000+ books available in the library
- **Book Bank Facility:** Fulfilling Student's requirement for the prescribed books on semester basis
- **Reference Services**
- **Digital Library (Audio-Visual Facility / Multimedia Facility)**
- **Print Journals Services**
- **AKTU Old Question Papers Bank**
- **Selective Dissemination of Information (SDI) Services**
- **E-journals Services**
- **Motivational Books Section**
- **Reprographic Services**
- **Current Awareness Services (CAS)**



## Girls Hostel



## Boys Hostel

### Facilities

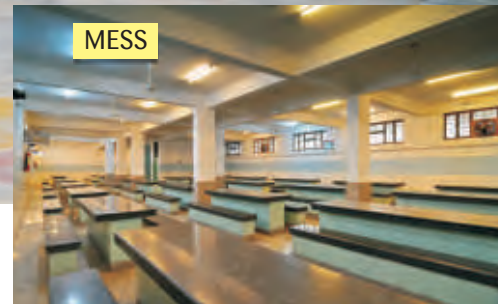
- Furnished Hostel rooms
- Hygienic Mess serving Vegetarian Food only
- Round the Clock Security
- Medical Care for Emergency (Dedicated Ambulance of the College)
- Wi-Fi Internet Connectivity
- Free Laundry
- Canteen
- Stationary Shop
- Remains Closed in Summer Vacations



ROOM



STUDY TABLE



MESS



COMMON ROOM



# ABES Institute of Technology College Code: 290

Approved by AICTE, Ministry of HRD, New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University (formerly Uttar Pradesh Technical University), Lucknow  
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Website: www.abesit.in, email: info@abesit.in



## Our Knowledge Partners

Analog & Embedded System



Power Electronics & Drives  
(A seat of AKTU)



Big Data & IOT



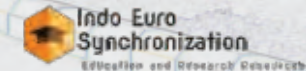
eSI in Embedded Systems  
& Robotics



Computer Aided Design  
& Engineering Analysis



Advance Robotic Control for  
Industrial Automation



MARGDARSHAK  
Building Professionals that delight



Entuple Technologies  
ANSYS Mechanical



Automation Technologies  
Hydraulic Systems



Industrial Automation  
Pneumatic Systems



Remote Sensing and Geographic  
Information System



Center for Structural  
Design & Analysis