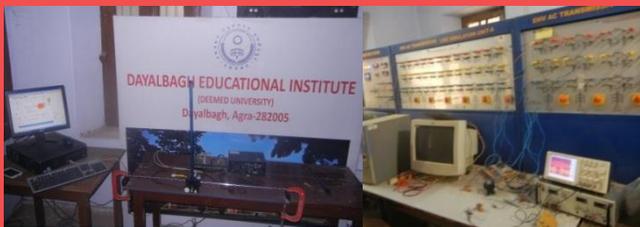




## Department of Civil Engineering Dayalbagh Educational Institute

### A Perfect Head Start



### Industrial Relevance

Right from the first year the students as well as the faculty of CIVIL ENGINEERING strived towards the best performances in various organizations, impressing with their skills various personnel in highly reputed organizations. The students from the first batch hit the top and got placed in top notch organizations :

- 1:DMRC : Delhi Metro Railway Corporation.
- 2:TATA PROJECTS.
- 3:TORRENT POWER.
- 4:PNC Infratech Limited.
- 5:TCS : Tata Consultancy Services.
- 6:SUNSURE.

Not only in the matters of placement but also in the field of training, the students have shown a great urge towards learning and have excelled in the fields. Our interns left a very positive imprints on:

- 1: NTPC : National Thermal Power Corporation
- 2: DMRC : Delhi Metro Railway Corporation
- 3: NHAI : National Highway Authority of India.
- 4: NPCIL : Nuclear Power Corporation of India
- 5: L&T : Lafarge & Tubro.
- 6: AAI : Airport Authority of India.
- 7: NBCC : National Buildings Construction Corporation
- 8: Ultratech Cements Ltd.
- 9: MSUPPLY
- 10: PWD : Public Works Department.
- 11: UNICCA EMPORIS, ADANI GROUP
- 12: AADHARSHILA.
- 13: PNC Infratech Limited.
- 14: SADBHAV Engineering Limited.

### Address for Correspondence

Coordinator, Department of Civil Engineering,  
Faculty of Engineering, Dayalbagh Educational Institute  
Dayalbagh, Agra – 282005  
Uttar Pradesh, INDIA.  
Phone: +91-9358877956  
Email: hansraj@dei.ac.in  
dei.civilplacement@gmail.com

### Highlights

- Established in 1950, DEI is recognized by AICTE/UGC,.
- Dayalbagh Educational Institute was awarded 'A' grade by NAAC in 2013.
- Several R&D projects supported by DRDO, MHRD, DST, AICTE and UGC completed successfully and more are underway.
- In the 1<sup>st</sup> Batch, 20 students appeared and qualified GATE examination from which 15 students have scored more than 90 percentile with a student achieving an All India Rank 25 having 99.97 GATE percentile.
- Several students admitted to post-graduate course in IISc/IITs/NITIE/IIFT/IIITs/IIMs.
- DEI is completely in sync with the recent Government initiatives. Some of these initiatives have been taken even before they were made mandatory by the government like Flexible Credit, Skills Enhancement, Cooperative Education, etc.
- Facility for students to credit courses from 94 centers in India and abroad taking education to the doorstep enabling even financially constrained students to get a high-class education through modern ICT enabled teaching and learning.
- International collaboration with universities in Canada, Germany and USA
- DEI was adjudged to be 5th in 'SWACHHTA' Ranking - 2017 of Higher Educational Institutions and was awarded by Union HRD Minister, Shri Prakash Javedekar.



## Vision – 2031

Keeping in line with the Institute's unique scheme of innovative, comprehensive, inter-disciplinary and value-based education that fosters academic excellence with holistic development, the Strategic Plan is a road map for providing an environment to produce well-rounded students who are ready to take on challenges and be leaders with a fine blend of top quality academics, work-experience and a strong value system.

The Strategic Plan is action-oriented and embodies the spirit of "Why not?" It will be implemented in four phases, each of five years, with clear targets set for each phases.

### OUR PLAN IS TRANSFORMATIONAL.

## Mission



DEI has a comprehensive Vision 2031 plan created after deliberations with stalwarts across the country and abroad including University of Waterloo, IIT-Delhi, IIT-Kanpur, TISS, IIT-Mumbai, IIT-Rajasthan, CDAC-Pune, CIEFL-Hyderabad, IISc, IIM Bangalore, IIT-Chennai, Gandhigram Rural University etc.

DEI emphasizes cooperative entrepreneurial education with multiple linkages ranging from household to International industry sector. DEI intends to move through Skills to Entrepreneurship, from REZ (Rural Economic Zone) to Special Economic Zone (SEZ) and finally international markets. DEI is the only university where Dairy products made by students are exported abroad.

Dayalbagh Educational Institute delivers a quality bound education which results in well dignified People in society with capacity to manage, solve and allocate resources at their best.

## Introduction to Faculty of Engineering Curriculum

The Faculty of Engineering of the Dayalbagh Educational Institute, widely recognized as a premier engineering institution in the country, was founded in 1950 as the Engineering College, Dayalbagh. With the establishment of the Dayalbagh Educational Institute (DEI) as a Deemed University in 1981, the college became an integral part of the Institute in the same year. In line with the education policy of DEI, which strongly emphasizes quality as a major objective in achieving its mission and goals, the Faculty has held aloft the beacon of knowledge, research, and education in the field of engineering since its very inception. DEI is leading university in solar power generation and green micro LT grid.

## Programmes of Study

### Under-Graduate Programmes

The following broad-based under-graduate programmes with a total intake of 300 students are offered:

- Civil Engineering
- Electrical Engineering
- Footwear Technology
- Mechanical Engineering

### Post-Graduate & Doctoral Programmes

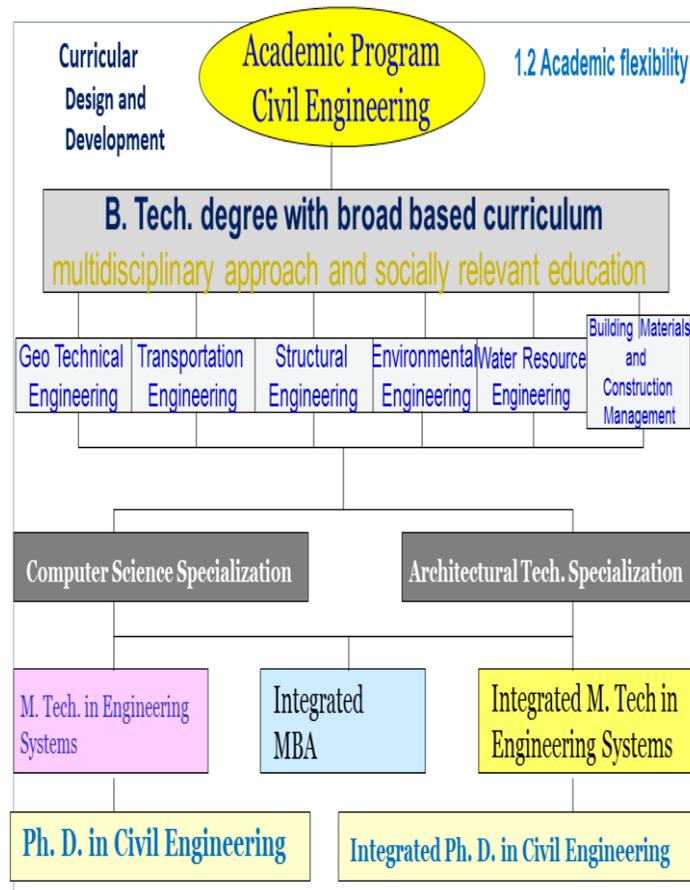
The faculty offers a Master's programme in Engineering Systems, designed to inculcate in the students the "systems" way of thinking. Two doctoral-level programmes are also offered.

## Teaching Faculty

The highly qualified and dedicated faculty is actively involved in teaching and research and regularly publishes papers in journals of international repute. Several of them have been awarded prestigious awards at the national level.



**The Civil Engineering Programme** was introduced in 2013. It is a broad-based civil engineering course in which students are exposed to advanced learning softwares of civil engineering and design including AUTOCAD, STADPRO, also the students can optionally choose to specialize in either Computer Science or Architectural Technology.



**In addition, the nation-wide thrust on Information Technology(IT) has been mirrored in the curriculum with the introduction of courses like Computer Concepts and C Programming and Data Structures, along with an option to specialize in Computer Science across all streams.**

## Student Support and Progression

- Students Chapter of Institution of Engineers (India) helps in grooming students in different walks of life (Technical paper reading contest, soft skill improvement contest are some examples).
- Computer Centre and CAD Centre
- University Science and Instrumentation Centre (USIC)
- Industry-Institute Partnership Cell (IIPC) organizes different programs to improve IT /soft skills of students
- Soft skill, Software Testing, Talley 9 and ERP on 17-18 Jul 2009
- VLSI Design May 2011
- SQL on 21 Sept -1 Oct 2012
- IAS Coaching Cell (25 students in last five years)
- Professional Competence Test (PROCT)
- Implementation of Shodhganga Project of UGC
- UGRA supports our talented students
- AADEIs (Association of Alumni of Dayalbagh Educational Institutions) financially supports students for participation in national and international conferences
- Scholarship to all SC-ST students through Govt.
- Book-bank facility to all students

## Infrastructure & Learning Resources

- Wi-Fi enabled Faculty Campus
- CAD provides excellent computing facilities to Students (50 Computers)
- Three large Playgrounds for Football, Hockey and Cricket practice and tournaments.
- Badminton Hall
- Tennis Court
- Training and Placement Cell
- Well maintained Lawns and Gardens
- Vigilant Security System

## Message from Coordinator of the Department

It gives me great pleasure to mention that Dayalbagh Educational Institute is blessed by its founding fathers who are eminent educationists and spiritual leaders who guided its progress with their scientific insight and intuition. DEI has a comprehensive Vision 2031 plan created in 2011- after deliberations with stalwarts across the country and abroad including University of Waterloo, IIT Delhi, IIT Kanpur, TISS, IIT Mumbai, IIT Rajasthan, CDAC, Pune, CIEFL, Hyderabad, IISc, IIM Bangalore, IIT Chennai, Gandhigram Rural University etc.

In the words of Revered Sir Anand Sarup Kt., August Founder of Dayalbagh, "Education, more education, education made perfect is the only panacea for our country's ills and evils. With more and real education I daresay we can easily raise the general level of intelligence of its teeming millions, create, in its future generations, the habit of clear and deep thinking and of appreciating new values that turn the acquisitive impulse of its people from its present direction to the direction of truth". The education in DEI also pertains to knowledge derived from esoteric experimentation and research of the Rishis and Saints pertaining to the oriental world by making use of latent senses in the human body which can be rendered kinetic through Surat (spirit force) Shabd (spiritual sound currents) – Yoga (union). The Dayalbagh way of life embraces Vedas, Upanishads, and Geeta.

Most Revered Dr. M.B. Lal Sahab, the Founder of Dayalbagh Educational Institute (Deemed University) exhorted that 'Success is achieved by cooperation and unity'. In the same lines Most Revered Prof. P.S. Satsangi Sahab' the Chairman Advisory Committee on Education disclosed that 'The preconditions for success in spiritual life are true surrender and true humility which can be acquired by selfless service like Seva in Agricultural Fields. Thus doing selfless service to all living beings should be the characteristic of Super Humans. They should be taught the way of polity along with devotional method which is the principle of administration of the inner self. One has to conduct oneself in the world with promptings from one's inner self and not by propensities of mind and senses. This is called 'Better Worldliness' or 'Aris-Demo' (Aristocratic Democracy). In the lifestyle of Better Worldliness, we are required to awaken our inner spiritual consciousness where there is the kingdom of our inner true self rather than the rule/ authority of mind, intelligence and matter alone. Inculcating this lifestyle or synthesis of values with other five 'Super elements will bring peace, harmony, and happiness to mankind. Thus Sigma Six 'S' is the foundation of education in Dayalbagh Educational Institute. The goal of DEI is to develop complete human beings endowed with "Sigma Six 'S' – Super humans with Super consciousness, Super intelligence, Super connectivity, Sigma Six 'Q' way of life and Sensitivity of Quality and Values'.

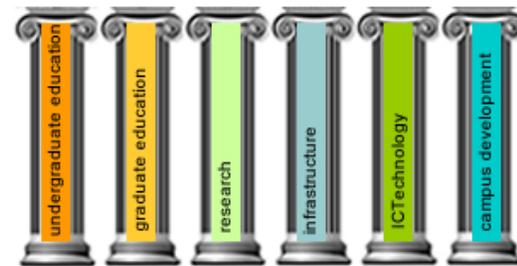
## Total Quality Education

Commitment to High-quality Affordable Education with Values



Research Programmes include Quantum Computing, Virtual Instrumentation, English Studies, Soft Computing, Photonics, Textile Design, Tissue Culture, Music, Multimedia Technology etc.

### Six Pillars of the Strategic Plan



### Genesis and Broad Goal

willing to live a life of dedication,  
a life of service..."

to produce a community ...every member of  
which shall know his duty and do his duty...

create in its future generations the habit of  
clear and deep thinking...

...raise the general level of intelligence  
of our teeming millions

## Faculty Profile



**Dr. K. Hansraj FIE,  
FAESI, FISPE, FISAM**  
Coordinator, Department of  
Civil Engineering,  
Dayalbagh Educational  
Institute, Agra  
B.Sc. Engg., (DEI), Agra  
M.E. University of Roorkee,  
Roorkee (IITR)  
Ph.D. 1992, (DEI),  
Dayalbagh, Agra.



**DR. N.S. MURTHY**  
B.Tech. Osmania  
University, Hyderabad.  
M.Tech. (Soil Mechanics and  
Foundation  
Engineering.), JNTU,  
Hyderabad.  
PH.D (Soil Mechanics),  
IISC Bangalore.  
Former Convener of  
EAMCAT.



**Er. S.P. MATHUR**  
B.Tech. (Hons.), IIT  
Bombay  
Retd. Chief Er. NPCIL  
37 Years Experience in  
Field



**Prof. A.A. GUPTA**  
B.E. Andhra University  
College.  
M.E.(Soil Mechanics and  
Foundation Engineering),  
IISC Bangalore.  
Director CHWB, Guwahati.  
Superintendent Engineer in  
National Water  
Development Agency.



**Prof. V.V.G.D.S.  
SHASTRI**  
B.Tech. (Hons) IIT  
Kharagpur.  
M.Tech. (Hons) IIT Delhi.  
Specialization in RCC,  
Polytechnico di Milano,  
Milan, Italy  
Str. Er. and Lead Designer  
for 36 yrs.



**Er.  
CHANDRAMOHAN**  
B.Tech., NIT  
Jamshedpur  
Retd. Superintendent Er.  
Building PWD  
37 Years PWD  
Experience



**Er. BHUPINDER  
SINGH AHUJA**  
F.I.E.(INDIA),  
F.I.V.(INDIA)  
B.Tech., M.Tech. (CIVIL),  
Chartered Engineer



**Er. RAJIV GARG**  
B.E[HONS], BITS Pilani  
M.E[HONS], NIT  
Allahabad.  
Special training on National  
Highways, USA and  
Canada.  
37 years PWD experience.



**Prof. O.P. SHARMA**  
B.Tech., M.Tech.  
(HONS).  
Member of Indian Roads  
Congress.  
Indian Institute of  
Engineers.

## Faculty Profile

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### **Er. K.V. LAYAL**

B.E., Thapar Engg. College Patiala.  
10 Years Experience in Field.  
Construction of Mini Hydal Projects, Bridges.  
Ass. Superintendent of Works Department, DEI 12 Years



### **Er. ISHANT SINGHAL**

B.Tech., Dayalbagh Educational Institute, Agra, 2015  
M.Tech. (Atmospheric – Oceanic Science and Technology), IIT Delhi, 2017



### **Er. KRISHMA YADAV**

B.Tech, Anand Engineering College, Agra, 2013.  
M.Tech (Environmental Sciences and Engineering) IIT ISM Dhanbad, 2016.



### **Er. PRATEEK SHARMA**

B.Tech. (HONS.)  
Area(s) of Research- Concrete Technology, Soil Mechanics, Green Building, Earthquake Resistant Design

## State of Art Laboratories

The Faculty has several well-equipped laboratories that support and reinforce the theoretical subjects taught. These include laboratories for :

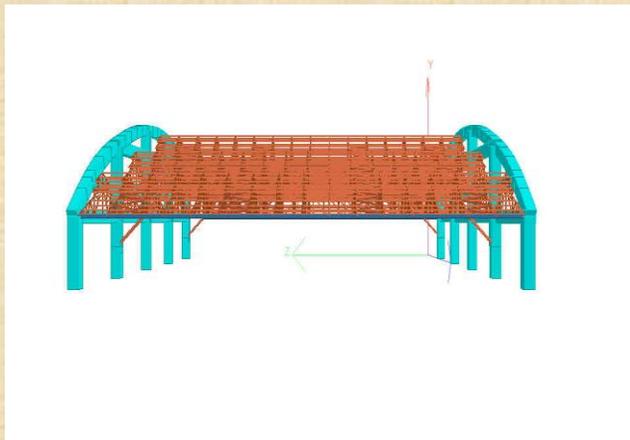
- Transportation Engineering Lab
- Building Construction Lab
- Concrete Technology Lab
- Soil Mechanics Lab
- Hydrology & Ground Water Engineering Lab
- Construction Materials Lab
- Structural Analysis Lab
- Geomatics Lab
- Hydraulics Lab
- Material Testing
- Computer Science Lab
- Computer-Aided Design
- Rapid Prototyping & 3D Printing
- Public Health Engineering Lab
- Basic Architectural Design Lab
- Principles of town planning and architecture lab
- Applied Mechanics Lab
- Non-Destructive Testing lab
- Waste Management Lab
- Foundation Engineering Lab
- Advanced Programming Lab
- Electrical and Electronics Simulation Lab
- Electrical Machines Lab
- Electronics Lab

A well-equipped modern workshop provides students with hands-on experience on both conventional and unconventional machining facilities



## Effective and Innovative Projects

**Aero-space Flexible structures, Civil Structures etc.**



## **Floating Concrete Structure**

Against with the name we have succeeded to build 480 kg (120cmX80cmX60cm), still floating providing M-25 strength of a reinforced concrete pontoon inner chain of chambers of which is filled with lightweight impermeable material, typically polystyrene.

## **Low Cost Housing**

Using Rat trap bond and filler concrete slab can effectively lead to high thermal and sound insulation with an economic aspect for rural as well as urban areas, this is not the end Earthbag housing is phase 2 structure of the project, easy to make, earthquake proof made with recycled or salvaged materials i.e. Sustainable.



Many of these projects immensely contributed to uplift of local industries and Government organizations including Defense.