Faculty of Engineering
Dayalbagh Educational Institute

ANNUAL REPORT

2018-19

Faculty of Engineering
Dayalbagh Educational Institute

Annual Report 2018-19

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1. Basic Information

1. **Name and Address of the Institution: FACULTY OF ENGINEERING**
2. **Name and Address of the Affiliating University:**
   DAYALBAGH EDUCATIONAL INSTITUTE (DEEMED TO BE A UNIVERSITY)

   DAYALBAGH, AGRA-282005, UTTAR PRADESH

   INDIA
3. **Year of establishment of the Institution: 1950**
4. **Type of the Institution: Government Aided Deemed University**
5. **Other Academic Institutions of the Trust/Society/Company etc., if any:**
   NOT APPLICABLE
6. **Details of all the programs being offered by the institution under consideration:**

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/ Decrease in intake, if any	Year of Increase/ Decrease	AICTE Approval	Accreditation Status*
1	B. Tech. (Civil Engineering)	Civil Engineering	2013	60	NIL	NA	2013	Not Eligible, Applying in 2019-2020
2	B. Tech. (Electrical Engineering)	Electrical Engineering	1950	60	Yes	2011	1994	Applying 2018-19
3	B. Tech. (Footwear technology)	Footwear Technology	2014	60	NIL	NA	2014	Not Eligible
4	B. Tech. (Mechanical Engineering)	Mechanical Engineering	1950	60	Yes	2011	1994	Applying 2018-19
5	M. Tech. Full Time (Engineering Systems)	Electrical/ Mechanical Engineering	1992	30	Yes	2014	2014	Eligible, Not Applied
6	M. Tech. Part Time (Engineering Systems)	Electrical/Mechanical Engineering	1992	13	NIL	NA	1992	Eligible, Not Applied
7	B. Tech. Part Time (Electrical Engineering)	Electrical Engg.	2014	60	NIL	NA	2014	Not Eligible

7. **Total number of employees:**

Regular Employees (Faculty and Staff):

	Professor			Associate Professor			Assistant Professor			Contractual	Prof. Emeritus
Department	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant		
CIVIL	1	0	1	2	0	2	3	3	0	6	4
MECH	1	1	0	5	4	1	15	13	2	0	3
ELECT	2	2	0	4	2	2	13	13	0	0	3
FOORWEAR TECH	1	0	1	2	0	2	2	1	1	0	0
MATHS	0	0	0	1	1	0	1	1	0	1	0
PHY	0	0	0	1	1	0	0	0	0	1	0
CHEM	0	0	0	1	1	0	0	0	0	0	0
HUM.	0	0	0	0	0	0	1	1	0	0	0

8. **Total number of Engineering Students:**

Item	UG	PG	Ph.D.
Total no. of boys	616	72	33
Total no. of girls	323	15	1
Total no. of students	939	87	34

9. **Contact Information**

i. Director, Dayalbagh Educational Institute

Name: Prof.Prem Kumar Kalra

Mobile No.: 9458553555

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ii. **Dean, Faculty of Engineering, DEI, Agra:**

Prof.V.Soami Das

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iii. **TEQIP Project Director: Prof. Ajay Kumar Saxena**

Designation: Professor and Head, Electrical Engineering,

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2. Vision & Mission

Vision of the Institute

To provide education, more education, education made perfect, which is the only "panacea for our country's ills and evils". DEI aims to serve as an exemplary model of education, covering the entire spectrum of knowledge and wisdom, to selflessly serve mankind by evolving a race of supermen, who possess the virtues to resolve the grave global challenges and establish a more humane and enlightened society.

Mission of the Institute

The mission objective of DEI is to provide value-based, comprehensive and inter-disciplinary education to evolve a 'complete person', i.e., a well-rounded total quality person, whose hallmarks are intellectual strength, emotional maturity, truthfulness, simple living, high moral character, scientific temper, general awareness, interdisciplinary outlook and one who discharges duties and obligations and is capable of giving a fuller response to social and environmental challenges.

Electrical Engineering Department

Vision

To be among top Electrical Engineering Departments of the country known for excellence in teaching and research in Electrical Engineering with due emphasis on relevance to contemporary societal needs

Mission Statements

M1:Academic Excellence
To develop outstandingengineers well versed in the theory and practice of electrical engineering discipline.

M2:Systems Approach and Total Quality Management
To follow a holisticapproach based on excellence, initiative, creativity and innovation that ensurescompetence in electrical engineering with specialization in emerging areas.

M3:Social Responsibility& Sustainable Development
To contribute to National Development by meeting the needs of the society and industry,empowering weaker and underprivileged sections, and to build economy through research and frugal innovation, anchored in the principle of achieving more with less.

M4:Ethics& Values
To uphold the highest ethical standards, inculcate values, create willingness and capacity to work with one's hands, promote respect for dignity of labour and a spirit of self-sacrifice to serve humanity.

Mechanical Engineering Department

Vision

To become a top teaching-cum-research department in Mechanical Engineering in the country through an exemplary system that lead to entrepreneurship, innovation, values and quality.

Mission

To create an environment for development of students in to total quality persons (endowed with: super consciousness, super intelligence, super human, super connectivity, sensitivity to values and quality) who will help in nation building.

MissionElements	Mission Component
M1	Nation building
M2	Super Consciousness
M3	Super Intelligence
M4	Super Human
M5	Super Networking
M6	Sensitivity Values & Quality

Program Educational Objectives for both the programs

PEO1. To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in engineering field and also to pursue higher research endeavours.

PEO2. To provide broad-based exposure to the state of the art in Electrical Engineering discipline and make the students industry ready.

PEO3. To prepare students to respond to societal needs through an understanding of the Rural ethos, Indian Culture and plurality of ethnic and religious communities in the country at large.

PEO4. To train students with good scientific and practical engineering application skills to comprehend, analyse, design and create novel engineering products.

PEO5. To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.

3. Information regarding D.E.I.

Historical Perspective

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.

Revered Sir AnandSarup Kt., August Founder of Dayalbagh

These words convey the unshakable faith in education as a means for inculcating the ideal of better worldliness upheld by the August Founders of DEI. The aim of the institute`s founding fathers was to evolve the superman of tomorrow. In pursuance of these lofty ideals, the genesis of education in Dayalbagh was the opening of the Radhasoami Educational Institutes (REI) on January 1,1917 by Sir AnandSarup, Kt., the fifth Revered Leader of the Radhasoami Faith. From its modest beginning, the nucleus in form of the REI, not only grew and got divided but also spawned new institutions in response to the changing and evolving needs of society.

A Significant development of far-reaching consequence in the history of education at Dayalbagh was the establishment of the DEI as a Registered Body in 1973, which integrated and brought under one umbrella all the educational institutes of Dayalbagh. In 1975, the Institute formulated an innovative and comprehensive educational policy with the mission objective of evolving a “complete man” which received approbation from the Government of Uttar Pradesh, the University Grant Commission (UGC), and the Ministry of Education and Culture (Department of Education). On May 16th 1981, the Government of India declared the DEI, Agra, comprising of the DEI women`s Training College, REI Degree College, Dayalbagh as a Deemed University under Section 3 of the UGC Act. Accordingly, the three erstwhile colleges ceased to exist as separate entities and began functioning as the faculty of Arts, Commerce, Education, Engineering and Science from the academic session 1981-82. The Institute has since been accorded the Membership of the Association of Indian Universities.

The Institute is located amidst the tranquil environs of Dayalbagh, a self-contained colony renowned for its serene environment and secular establishing, in which its inhabitants lead an active, disciplined and co-operative community life, conforming to the high spiritual

ideals of their faith. On the outskirts of the historic city of Agra, the campus is situated in idyllic surroundings, away from the din and noise of the city. Nestled between lush green fields, it provides an excellent academic setting which is in harmony with nature. This, along with a simple, disciplined and principled life, undoubtedly contributes to the strength of the social, moral and spiritual fiber of the institute`s educational system.

Philosophy

The Institute has introduced a scheme of innovative and comprehensive education at university and non-university general and technical education levels which aims at excellence but not at the cost of the relevance, which inculcates dignity of labour, encourages initiative and creative work, which is multi-disciplinary, which prepares men for the increasingly techno-oriented society of tomorrow without uprooting them from their agricultural moorings, which will generate in the alumni the basic values of humanism, secularism and democracy by exposing them to the principles of all the major religions of the world and to their own cultural heritage, thus developing in them an integrated personality of well-adjusted men whose world has not been broken into fragments by narrow domestic walls.

EDUCATION AT DAYALBAGH

The genesis of education in Dayalbagh can be traced back to 1st January, 1917 when a co-educational middle school was established in the form of the Radhasoami Educational Institute. Subsequently, the following colleges were opened at Dayalbagh :

1927: Technical College (with Engineering Diploma Courses)

1930: PremVidyalaya Girls Intermediate College

1947: REI Degree College (with degree courses in Science and Commerce)

1947: Women's Training College (with B.A. & B.Ed. for girls; (M.Ed. in 1958))

1950: Engineering College (with B.Sc. Engg., in Electrical and Mechanical Engg.)

In the year 1973, the Dayalbagh Educational Institute was established as a registered body bringing three colleges, namely, the Engineering College, Women's Training College and REI Degree College under one umbrella. In order to upgrade the stagnating and deteriorating undergraduate education in the country, an innovative, comprehensive and multi-faceted Education Policy was formulated in the year 1975, by Most Revered Dr. M.B. Lal Sahab, D.Sc.(Lucknow), D.Sc.(Edinburgh), the Founder Director of DEI and former Vice-Chancellor of Lucknow University.

DEI is a multi-Faculty University comprising of the Faculties of Arts, Commerce, Education, Engineering, Science and Social Sciences. The Technical College (Engg. Diploma level), PremVidyalaya (Girl's Inter College) and REI Intermediate College were later brought under the Academic and Administrative control of DEI. DEI has also started Distance Education program in the year 2004 with due approvals.

The mission objective of this innovative Educational Policy is to evolve a "Complete Man" with three major goals,

1. Academic Excellence 2. Moral and Spiritual Values 3. Social Sensibilities

The Dayalbagh Educational Institute has embarked upon a bold initiative, VISION 2031 and formulated a comprehensive and progressive Strategic Plan for 2012-2031, with the goal to become a top teaching-cum-research Institute through an exemplary system of education. To establish Total Quality Management across all activities of the University, the Plan encompasses undergraduate and postgraduate education, research, infrastructure, information and communication technology and campus development.

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.

The Institute has accepted this challenge and is confident of achieving success with the cooperation of faculty, staff, students, alumni and all other well-wishers.

4. Information regarding Academic Autonomy

Deemed University Status: DEI was accorded the status of an Institution deemed to be a University by the Government of India on 16th May, 1981. The University is fully aided by UGC for both Plan and Non-plan maintenance grants. With the formation of Deemed University the innovative educational system was fully implemented with great success.
Further, as a constituent part of a deemed University, each faculty has autonomy over academic, administrative and financial matters.

5. Governance

Governance Structure

DEI has a well-defined structure to ensure efficient governance and management through effective decision making. The main bodies that have been constituted under its Memorandum of Association to formulate and execute policies and strategic plans based on its Vision and Mission and manage all activities of the Institute are the following:

1. *The Primary Body*
2. *The General Body*
3. *Board of Management (Governing Body)*
4. *The Holding Trustees*
5. *Planning & Monitoring Board*
6. *The Academic Council*
7. *The Faculty Boards*
8. *The Finance Committee*
9. *The Managing Council for Technical Educational Institutions*
10. *The Managing Council for General Educational Institutions*

The Institute MoA and Bye-Laws provide policy framework and direction for the functioning of the Institute. The roles and responsibilities of various bodies are also clearly defined to ensure transparency and accountability to achieve its objectives.

6. Organisation structure

Under abovementioned layer, following organizational bodies function to ensure seamless implementation of policies

1. Planning & Review

- *Institute IQAC*
- *Planning & Monitoring Board*
- *Finance Committee*
- *Building Committee*
- *AAAC*

2. Admission

- *Prospectus Committee*
- *Central Admissions Committee*

- *Arbitration Committee*

3. Course Curriculum Development

- *Department Board of Studies (BoS)*
- *Faculty Board of Studies*
- *Academic Council*
- *Standing Committee of Academic Council*

4. Examinations

- *Panel of Examiners*
- *Institute and Faculty Examination Committees*
- *Results Committee*
- *Grade Moderation Committee*

5. Research

- *Department Research Advisory Committee (RAC)*
- *Research Degree Committee*
- *Institute R & D Committee*

6. Awards and Scholarship

- *Distinguished Alumni Award Committee*
- *Founder's Medal Committee*

7. Placement

- *Training and Placement Cell*
- *Faculty Placement Cell*
- *Alumni Placement Assistance Cell*

8. Finance

- *University IQAC*
- *Finance Committee*
- *Executive Committee*

9. Discipline

- *Anti-Ragging Committee*
- *Faculty Discipline Committee*
- *Faculty ProctorialCommittee*
- *Proctorial Board*
- *Institute Discipline Committee*

10. Grievance

- *Grievance Redressal Committee*
- *Harassment of Women at Workplace Committee*

11. Cultural Activities

- *Faculty and Institute Cultural Committees*

12. Sports

- *Faculty and Institute Sports Committees*

13. Core Course Advisory Committee

14. NSS

- *Faculty and Institute NSS Committees*
- *Scouting and Guiding Committee*

15. Library Committee

- *Institute and Faculty Library Committees*

7. Academic Calendar

Since inception as Deemed University in 1981, academic calendar is religiously followed. This is the principle reason that all academic and other activities could be completed on time and results are declared on time. Following is the broad distribution of events in a session.

Session: Academic session means both the odd & even semesters of a session taken together and it includes the period from 1st of July to the succeeding 30th of June.

Semester: Odd Semester - July to 25th December
Even Semester - 26th December to 21st May
Summer Term - May to July 21.3

Courses will be organized in semesters, each of about 16 working weeks, besides a mid-semester break and an end-semester break.

The Institute and the Departments would observe working hours as notified from time-to-time.

Sports, Games, Social Service, Rural Development and Co-curricular Activities, participation in which is compulsory, will be suitably arranged. A student will participate at least once a week in each of these activities.

Summer Vacation (40 days) - 22nd May to 30th June

Detailed calendar provided to students in Student Dairy is presented hereunder.

GENERAL ACADEMIC CALENDAR:

Odd Semester	All Programmes (excluding High School, Intermediate & Modular	High School, Intermediate & Modular Programmes
Pre-Registration (Continuing Students)	During mid-semester break of preceding semester	During mid-semester break of preceding semester
Teaching Starts (Continuing Students)	02-JUL-2018	02-APR-2018
Admission, Registration & Fee Collection (New Students)	As per notified programme	As per notified programme
Orientation Programme (New Students)	As per notified programme	As per notified programme
First Test Series (Tentative)*	08-OCT-2018 to 13-OCT-2018	18-AUG-2018 to 25-AUG-2018
Mid Semester Break (Tentative)*	15-OCT-2018 to 20-OCT-2018	15-OCT-2018 to 20-OCT-2018
Second Test Series (Tentative)*	20-NOV-2018 to 28-NOV-2018	08-OCT-2018 to 13-OCT-2018
End Semester Exam. (Practical & Theory)	29-NOV-2018 to 18-DEC-2018	23-OCT-2018 to 02-NOV-2018

Submission of Awards and Grades of Continuous Evaluation	On or before 18-DEC-2018	On or before 02-NOV-2018
Semester Break (Tentative)*	19-DEC-2018 to 24-DEC-2018	19-DEC-2018 to 24-DEC-2018
Declaration of Result	BY 14-FEB-2019	BY 31-DEC-2018
Remedial Teaching	15-02-2019 to 23-02-2019	10-01-2019 to 19-01-2019
Remedial Examinations (Tentative)*	25-02-2019 to 02-03-2019	21-01-2019 to 25-01-2019
Even Semester		
Pre-Registration (Continuing Students)	During mid-semester break of preceding semester	During mid-semester break of preceding semester
Teaching Starts (Continuing	26-DEC-2018	05-NOV-2018
First Test Series (Tentative)*	11-MAR-2019 to 16-MAR-2019	03-JAN-2019 to 09-JAN-2019
Mid Semester Break (Tentative)	18-MAR-2019 to 23-MAR-2019	18-MAR-2019 to 23-MAR-2019
Second Test Series (Tentative)*	24-APR-2019 to 30-APR-2019	05-MAR-2019 to 11-MAR-2019
End Semester Exam. (Practical & Theory)	01-MAY-2019 to 21-MAY-2019	13 to 16-MAR-2019 & 25 to 30-MAR-2019
Submission of Awards and Grades of Continuous Evaluation	On or before 21-MAY-2019	On or before 30-MAR-2019
Summer Vacation	22-MAY-2019 to 30-JUN-2019	22-MAY-2019 to 30-JUN-2019
Declaration of Result	By 29-JUN-2019	By 30-APR-2019
Remedial Teaching	01-JUL-2019 to 15-JUL-2019	01-MAY-2019 to 14-MAY-2019
Remedial Examinations (Tentative)*	16-JUL-2019 to 22-JUL-2019	15-MAY-2019 to 21-MAY-2019

*** Marks of each component of internal assessment should be displayed on the DEI website within one week of the date of the scheduled test.**

GENERAL ACTIVITIES CALENDAR:

Beautification & Tree Plantation Programme	July to Aug., 2018
Independence Day	15 Aug., 2018
Teachers' Day	05 Sept., 2018
Engineers' Day	15 Sept., 2018
Inter-Faculty Competitions (Cultural, Literary & Fine Arts):Phase - I	Oct., 2018
National Education Day	11 Nov., 2018

Quality & Values Day	7 Nov., 2018
Convocation	Nov. 2018
N.S.S. Camp	Dec., 2018
Guiding/Scouting Camp (For B.Ed)	During III Sem. Break
National Youth Day	12 Jan., 2019
Republic Day	26 Jan., 2019
Founder's Day	31 Jan., 2019
Inter-Faculty Competitions (Cultural, Literary & Fine Arts):Phase - II	Feb., 2019
Sports Competitions	Feb., 2019
R.E.I. Diamond Jubilee Lecture	Mar./Apr., 2019

CALENDAR OF CULTURAL, LITERARY, THEATRE AND FINE ARTS ACTIVITIES FOR THE SESSION 2017-2018

Competitions at Faculty Level

S. No.	Event	Date	Day
1	Essay Writing (Hindi/English)	27.8.2018	Monday
2	Poster making & Cartooning	28.8.2018	Tuesday
3	Elocution (Hindi)	29.8.2018	Wednesday
4	Elocution (English)	30.8.2018	Thursday
5	Mime & Mimicry	31.8.2018	Friday
6	Debate (Hindi)	6.9.2018	Thursday
7	Debate (English)	7.9.2018	Friday
8	Skit	10.9.2018	Monday
9	On the Spot Painting & Collage	11.9.2018	Tuesday
10	Clay Modelling &Rangoli	12.9.2018	Wednesday
11	General Knowledge Quiz (Written)	17.9.2018	Monday
12	Spot Photography & One Act Play (Hindi/ English)	18.9.2018	Tuesday
13	Light & Classical Vocal Solo	19.9.2018	Wednesday
14	Bhakti Sangeet	24.9.2018	Monday
15	Light Vocal (Group), Classical Instrumental Solo (Percussion & Non-Percussion), Folk Orchestra	25.9.2018	Tuesday
16	Theatrical Script Writing (H/E)	26.9.2018	Wednesday
17	Western Vocal (Solo & Group)	3.1.2019	Thursday
18	Folk/Tribal Dance (Solo & Group), Classical Dance (Solo)	4.1.2019	Friday
19	Satirical Creative Writing (Hindi/English/ Sanskrit) &Translation (English-Sanskrit, Sanskrit-English)	5.1.2019	Saturday
20	Poetry Recitation (Self Composed) –	10.1.2019	Thursday

	(Hindi/English/ Sanskrit)		
21	Antakshari (Hindi/English/ Sanskrit)	11.1.2019	Friday
22	Dumb Charades	12.1.2019	Saturday
23	Crazy Ideas (Hindi/English)	14.1.2019	Monday
24	Street Play (Hindi/English)	16.1.2019	Wednesday
25	Youth Parliament	17.1.2019	Thursday

Competitions at Institute Level

S.No.	Event	Date	Day
1	Inter-Faculty Competitions Phase-I Elocution, Essay, Debate, GK Quiz-Oral, Mime, Mimicry, Fine Arts, Theatrical Script Writing, One Act Play (Hindi)	29.10.2018	Sunday
2	Inter-Faculty Competitions Phase-II Indian & Western Music Items, Dance, Dumb Charades, Satirical Creative Writing, Translation, Poetry, Crazy Ideas, Street Play and Antakshari	20.1.2019	Sunday
3	Youth Parliament	2.2.2019 & 3.2.2019	Saturday Sunday

Competitions at Inter-Institute Level on the Theme "Values & Quality in Education"

S. No.	Event	Date	Day
1	Poster Making & Cartooning	8.9.2018	Saturday
2	Bhakti Sangeet (Devotional Music)	27.10.2018	Saturday
3	Elocution (Hindi/English) (Values & Quality Day)	7.11.2018	Wednesday

Other Programs

Hindi and English Drama Festivals (Inter-Schools & Colleges)

S. No.	Event	Date	Day
1	Hindi Drama Festival	29.10.2018 30.10.2018 31.10.2018	Monday Tuesday Wednesday
2	English Drama Festival	12.11.2018 13.11.2018 14.11.2018	Monday Tuesday Wednesday

Teachers' Day

S.No.	Event	Date	Day
1	Felicitation of Retired Teachers of DEI	5.9.2018	Wednesday

Annual Prize Distribution Function

S.No.	Event	Date	Day
1	Faculty of Arts	6.3.2018	Wednesday
2	Faculty of Commerce	11.3.2019	Monday

3	Faculty of Education	12.3.2019	Tuesday
4	Faculty of Engineering	2.3.2019	Saturday
5	Faculty of Science	15.3.2019	Friday
6	Faculty of Social Sciences	16.3.2019	Saturday
7	Technical College	20.3.2019	Wednesday
8	**Institute Annual Prize Distribution Function**	25.3.2019	Monday

CALENDAR OF INTER-FACULTY COMPETITIONS INGAMES AND SPORTS

Dates	**Games**	**ConvenorB: (Boys) & G: (Girls)**
August (Second Week)	Table Tennis	B: Prof. D. K. Chaturvedi (Engg.) G: Dr. (Ms) Priyanka Gautam (Sc.)
August (Last Week)	Football	B: Dr. Amit Gautam (Edu.) G: Dr. (Ms) Rashmi Srivastava (Arts)
August (Last Week)	Chess	B: Dr. Ankit Sahai (Engg.) G: Dr. (Ms) Sonali Bhatnagar (Sc.)
September (Second Week)	Volleyball	B: Prof. S P. Singh (Sc.) G: Ms. Surat Pyari (Soc. Sc.)
October (Last Week)	Badminton	B: G: Dr. (Ms) Kavita Kumar (Soc. Sc.)
October (Last Week)	Kho-Kho	B: Prof. L.N. Koli (Com.) G: Dr. (Ms) Lowleen Malhotra (Arts)
October/ November	Cricket	B: Dr. A.P. Tyagi (Sc.) G: Prof. (Ms) Gur PyariSatsangi (Edu.)
November (Second Week)	Basketball	B: Mr. Gurumukh Das (Engg.) G: Ms. Chetan Pyari (Edu.)
November (Last Week)	Hockey	B: Mr. R.C. Gupta (Engg.) G: Dr.SunitaMehrotra (Soc. Sc.)
January & February	Athletic Meet (Intra) & Sports Day (Annual Function)	B: Dr A P. Tyagi B: Mr. Gaurav Pratap Rana (Engg.) G: Dr. (Ms) Kshama Pandey (Edu.) Dr (Ms) CetanPyari G: Prof. (Ms) Gur PyariJandial (Arts)
Organising Secretaries		Mr. RajanBedi
Conveners and Organising Secretaries will arrange for inter-faculty competitions.		

8. Infrastructure: Central Facilities

1 DEI CAMPUS The University has a well laid out campus with sprawling buildings spread over 44 acres with a built up area of 36,768 m2. An area of 600 acres has been earmarked for future expansion.

2 LIBRARY RESOURCES The Central Library has 1,67,345 books and subscribes to 148 national and 32 foreign journals in print form and nearly 4000 e-journals through INFLIBNET and direct subscription. In addition, there are three Faculty Libraries in Engineering, Education and Commerce. All the four libraries have been computerized and internet and reprographic facilities are made available.

3 COMPUTER & MULTIMEDIA RESOURCES The Computer Centre of the University provides computing services to the campus. It has 70 PCs and 5 servers. The Institute is connected with Fibre-Optic backbone. Well equipped Computing facilities exist in the Faculties of Engineering Science, TC and at Multimedia Lab. Short training courses are arranged for students and staff by the Computer Center. The Multi-Media laboratory provides state-of-the-art facilities with video-recording, cameras, editing workstations, high speed network storage, recording, sound editing, etc.

4 USIC The Institute has a University Science Instrumentation Centre (USIC) with Glass Blowing, Electronics, Computer, Mechanical and Refrigeration Sections. It also has Virtual Instrumentation, Photolithography and Printed Circuit Board Laboratories. USIC manages the repair, maintenance, fabrication and upgradation jobs on the campus. It also conducts work experience courses and projects for Faculty of Education, Engineering and DEI Technical College. It also organizes short courses for students and staff.

5 GAMES &SPORTS The university provides coaching in Athletics, Football, Volleyball, Hockey, Cricket, Basket Ball, Table Tennis, Softball and Kho-Kho. It organizes various sports events every year at the Intra-Faculty and Inter-Faculty level. The University encourages participation in Sports and Games as part of its Core course on Co-curricular Activities, where weightage is given for participation and achievements. Special Sports meets are organized for Differentially-abled students.

6 MEDICAL FACILITIES Saran Ashram Hospital run by a registered Charitable Society in Dayalbagh provides medical facilities to the university employees and students. It has 13 beds with 11 regular doctors. The general medical checkup for the students and teachers and other staff members is compulsory. Institute doctor visits all the hostels every alternate day. Free medicines are given on prescription by the doctor.

7 HOSTEL FACILITIES There are 5 Hostels, two for boys and three for girls with 230 and 520 seats respectively. Each of them have solar power, solar cooking, solar hot water, medical room, indoor and outdoor games, gymnasium, reading room, internet, computer and reprographic facilities. Hostel rent is only Rs.20/- per month. Hostels are administered by Charitable Societies of Dayalbagh from where the salaries of staff is met, thus reducing the burden on students

Department level infrastructural facilities are presented in their Profile at Page 42

9. Programs Offered & NBA accreditation:

ESAR for Electrical and Mechanical departments have been submitted. Team visit is scheduled in September 2019

Programmes offered and Status of NBA Accreditation

S. No.	Program Name	Name of the Department	Year of Comm-encement	Intake	Increase/ Decrease in intake, if any	Year of Increase/ Decrease	AICTE Approval	Accreditation Status
1	B. Tech. (Civil Engineering)	Civil Engineering	2013	60	NIL	NA	2013	Not Eligible, Applying in 2019-2020
2	B. Tech. (Electrical Engineering)	Electrical Engineering	1950	60	Yes	2011	1994	Applied, Visit scheduled
3	B. Tech. (Footwear technology)	Footwear Technology	2014	60	NIL	NA	2014	Not Eligible
4	B. Tech. (Mechanical Engineering)	Mechanical Engineering	1950	60	Yes	2011	1994	Applied, Visit scheduled
5	M. Tech. Full Time (Engineering Systems)	Electrical/ Mechanical Engineering	1992	30	Yes	2014	2014	Eligible, Not Applied
6	M. Tech. Part Time (Engineering Systems)	Electrical/ Mechanical Engineering	1992	13	NIL	NA	1992	Eligible, Not Applied
7	B. Tech. Part Time (Electrical Engineering)	Electrical Engg.	2014	60	NIL	NA	2014	Not Eligible

10. Student Strength

Students strength: (Sanctioned Intake & Actual Intake), category and gender wise

B.Tech(4 Year)	1st YEAR						2nd Year					
	GN	BC	SC	ST	***M***	***F***	***GN***	***BC***	***SC***	***ST***	***M***	***F***
Civil	27	20	14	0	44	17	41	13	9	4	41	26
Elect	36	20	11	4	32	39	47	20	13	3	38	45
Fwt.	14	15	5		25	9	15	5	3	1	18	6
Mech.	34	20	13	4	62	9	47	22	10	4	68	15
B.Tech Part Time (5 Year)												
Elect	15	6	4	1	26		3	3	3		9	
M.Tech	12	7	7		26		7	3	7		17	0
M.Tech (C.S.)	10	1		1	3	9	12	0			2	10
M.Tech Prat Time	12	1	1		12	2	6	1			6	1
M.Tech Integrated	1				1							
P.hD												
Elect.	7	3	1		10	1						
Mech.	5	2	1		8							
Elect Part Time	4	1		1	6							
Mech. Part Time	8	1			9							
Total	185	97	57	11	264	86	178	67	45	12	199	103

Gen	689
BC	315
SC	182
ST	51
M	887
F	354

	3rd Year						4th Year						5th Year			
B.Tech(4 Year)	***GN***	***BC***	***SC***	***ST***	***M***	***F***	***GN***	***BC***	***SC***	***ST***	***M***	***F***	***GN***	***BC***	***SC***	***M***
Civil	*38*	*17*	*10*	*7*	*50*	*22*	36	16	11	5	49	19				
Elect	*44*	*17*	*10*	*3*	*41*	*33*	43	18	8	5	26	48				
Fwt.	*14*	*11*	*6*		*19*	*12*	29	17	4	0	45	5				
Mech.	*46*	*17*	*10*	*4*	*66*	*11*	39	18	8	4	58	11				
B.Tech Part Time (5 Year)																
Elect	*7*	*5*	*2*		*14*	*4*	8	2	3		13		17	*11*	*6*	34
M.Tech																
M.Tech (C.S.)																
M.Tech Prat Time	*2*	*1*	*1*		*4*		3	1	1		5					
M.Tech Integrated																
Total	151	68	39	14	194	82	158	72	35	14	196	83	17	11	6	34

11. Faculty & Staff Positions

	Professor			Associate Professor			Assistant Professor			Contractual	Prof. Emeritus
Department	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant		
CIVIL	1	0	1	2	0	2	3	3	0	6	4
MECH	1	1	0	5	4	1	15	13	2	0	3
ELECT	2	2	0	4	2	2	13	13	0	0	3
FOORWEAR TECH	1	0	1	2	0	2	2	1	1	0	0
MATHS	0	0	0	1	1	0	1	1	0	1	0
PHY	0	0	0	1	1	0	0	0	0	1	0
CHEM	0	0	0	1	1	0	0	0	0	0	0
HUM.	0	0	0	0	0	0	1	1	0	0	0

Faculty & Staff positions: Sanctioned Intake & Actual filled (Regular and contract)

Faculty Name	Department	Date of joining	Designation name	Qualification	Gender	Status
DeveshJayaswal	Civil	2018-09-28	Asst. Professor	Masters	Male	Contractual
IshantSinghal	Civil	2017-07-09	Asst. Professor	Masters	Male	Contractual
Jinshad	Civil	2018-09-28	Asst. Professor	Masters	Male	Contractual
Krishma Yadav	Civil	2016-12-15	Asst. Professor	Masters	Female	Permanent
Mohd. Sharique	Civil	2018-09-28	Asst. Professor	Masters	Male	Contractual
Mr. Faisal	Civil	2018-09-28	Asst. Professor	Masters	Male	Contractual
Nivedita Sharma	Civil	2018-09-28	Asst. Professor	Bachelors	Female	Contractual
Pravindra	Civil	2018-11-12	Asst. Professor	Masters	Male	Contractual
Randeep	Civil	2018-10-12	Asst. Professor	Masters	Male	Contractual
Tilak Joshi	Civil	2018-09-28	Asst. Professor	Masters	Male	Contractual
Ajay Kumar Saxena	Electrical	1985-07-29	Professor	Bachelors	Male	Permanent
C Patvardhan	Electrical	1989-03-02	Professor	Bachelors	Male	Permanent
D K Chaturvedi	Electrical	1993-04-10	Professor	Bachelors	Male	Permanent
D Bhagwan Das	Electrical	1992-02-10	Professor	Bachelors	Male	Permanent
Manmohan	Electrical	1991-08-06	Professor	Bachelors	Male	Permanent
Vishal Sahni	Electrical	2005-05-08	Professor	Bachelors	Male	Permanent
Ashish Saini	Electrical	1997-02-27	Associate Professor	Bachelors	Male	Permanent
D Prem Prasad	Electrical	1985-03-15	Associate Professor	Masters	Male	Permanent
G. S. SaileshBabu	Electrical	1998-10-08	Associate Professor	Bachelors	Male	Permanent
Kandarpa Srinivas	Electrical	1997-01-08	Associate Professor	Bachelors	Male	Permanent
Amol Gupta	Electrical	2012-12-31	Asst. Professor	Masters	Male	Permanent
Gaurav Pratap Rana	Electrical	2008-01-09	Asst. Professor	Masters	Male	Permanent
K Pritam	Electrical	2014-05-08	Asst. Professor	Masters	Male	Contractual
KedriJanardan	Electrical	2011-07-24	Asst. Professor	Masters	Male	Permanent

Faculty Name	Department	Date of joining	Designation name	Qualification	Gender	Status
SubhoUpadhayay	Electrical	2017-07-22	Asst. Professor	Bachelors	Male	Contractual
V Prem Prakash	Electrical	2011-07-24	Asst. Professor	Masters	Male	Permanent
V Srinath	Electrical	2014-11-26	Asst. Professor	Masters	Male	Contractual
D. Ganeshwar Rao	Mechanical	2003-12-31	Professor	Bachelors	Male	Permanent
K. Hans Raj	Mechanical	1988-06-07	Professor	Bachelors	Male	Permanent
Rahul Caprihan	Mechanical	1991-09-13	Professor	Bachelors	Male	Permanent
Rahul Sawrup Sharma	Mechanical	1999-02-08	Professor	Bachelors	Male	Permanent
Sanjay Kumar Srivastava	Mechanical	1993-04-10	Professor	Bachelors	Male	Permanent
Sant Kumar Gaur	Mechanical	1983-04-06	Professor	Bachelors	Male	Permanent
V. Soami Das	Mechanical	1994-02-15	Professor	Bachelors	Male	Permanent
Ram Chand Gupta	Mechanical	1992-11-25	Associate Professor	Masters	Male	Permanent
Aditya	Mechanical	2017-02-16	Asst. Professor	Bachelors	Male	Contractual
Anami Saran	Mechanical	2003-09-15	Asst. Professor	Masters	Male	Permanent
Ankit Sahai	Mechanical	2010-03-26	Asst. Professor	Bachelors	Male	Permanent
Anurag Gupta	Mechanical	2016-07-03	Asst. Professor	Masters	Male	Permanent
Ashok Yadav	Mechanical	2011-07-18	Asst. Professor	Bachelors	Male	Permanent
Atul Suri	Mechanical	2014-11-16	Asst. Professor	Masters	Male	Permanent
Bhupesh Kumar	Mechanical	2007-07-08	Asst. Professor	Masters	Male	Permanent
Gurumukh Das	Mechanical	2010-05-14	Asst. Professor	Bachelors	Male	Permanent
Kumar Ratnakar	Mechanical	2012-11-05	Asst. Professor	Masters	Male	Permanent
Manoj Dixit	Mechanical	2017-02-05	Asst. Professor	Bachelors	Male	Contractual
Manoj Kumar	Mechanical	2017-07-28	Asst. Professor	Bachelors	Male	Contractual
RajatSetia	Mechanical	2012-10-28	Asst. Professor	Bachelors	Male	Permanent

12. Transition Rate of 1st year UG students

S.No.	Category	Total number of students in 1st year in 2018-19	Number of students gone to 2nd year without backlog	% Transition
1	SC	43	43	100%
2	ST	8	6	75%
3	Female	74	74	100%
4	Total intake	237	234	98.73%

13. GATE Qualified Students

Name Of The Student	Gen	Roll Number	CAT	Branch	Branch in GATE	GATE Marks	Rank	Gate Score
Mansi Pawar	F	146022	GN	CIVIL	Civil	29.81	18313	368
Anshul Kumar	M	154008	SC	CIVIL	Civil	23.11	29815	293
Kirti Kumar	M	154021	SC	CIVIL	Civil	22.13	32168	281
Nikhil Kumar Gupta	M	154028	OBC	CIVIL	Civil	43.12	6811	519
UtkarshUpadhyay	M	154052	GN	CIVIL	Civil	47.93	4519	573
Abhimanyuyadav	M	154001	OBC	CIVIL	Civil	32.3	15282	396
Ankushshivhare	M	154006	OBC	CIVIL	Civil	29.67	367	18558
Deepti Singh	F			CIVIL	Civil	30.8	348	20652
Hardik Garg	M	154016	GN	CIVIL	Civil	60.5	715	1129
Harshitsinghchaudhary	M	154211	OBC	CIVIL	Civil	25.97	325	24110
JitendraPratap Singh	M	154018	SC	CIVIL	Civil	21.09	270	34662
Katyayani Pandey	F			CIVIL	Civil	30.85	380	16996
Krishna Agarwal	F	154022	GN	CIVIL	Civil	35.73	435	11969
Krishna Varshney	F	154023	GN	CIVIL	Civil	34.34	419	13152
Manendra Singh	M	154026	OBC	CIVIL	Civil	31.9	392	15818
Priya Agrawal	F	154031	GN	CIVIL	Civil	32.2		9822
Radhika Mahour	F			CIVIL	Civil	38.53	467	9683
Udaypratap	M			CIVIL	Civil	50.01	596	3769
Rahul Sharma	M	146311	GN	ELECT	Electronics	29.67	11561	384
Soniya	F	146391	SC	ELECT	Electrical	57.33	6908	538
Soniya	F	146391	SC	ELECT	Electrical	57.33	6908	538
Aashi Gupta	F	154061	GN	ELECT	CS	36.33	8252	426
AbeerSaxena	M	154062	GN	ELECT	CS	30	13732	356
Anjali Shukla	F	154067	GN	ELECT	Electrical	44.33	14012	400
Anjali Shukla	F	154067	GN	ELECT	Electrical	44.33	14012	400
Bhaskar Chauhan	M	154070	GN	ELECT	Electrical	47	12321	428
Bhaskar Chauhan	F	154070	GN	ELECT	Electrical	47	12321	428
ChandradeepGautam	M	154072	SC	ELECT	CS	30.67	13027	363
Ishita Agarwal	F	154082	GN	ELECT	CS	59.67	963	685
KirtiKaharwar	F	154085	OBC	ELECT	Electrical	51.33	9881	474
Mahima Yadav	F	154090	OBC	ELECT	CS	28.33	15654	337
Mehar Saran	M	154093	GN	ELECT	CS	33.67	10213	396
Nisha Singh	F	154101	GN	ELECT	Electrical	42.33	15466	379
Parul Agrawal	F	154103	GN	ELECT	CS	34.67	9416	407
Ritika Agrawal	F	154108	GN	ELECT	CS	29.67	14088	352
Shivangi Gupta	F	154111	GN	ELECT	Electrical	43.67	14473	393
Shivanjali Yadav	F	154112	GN	ELECT	Electrical	60.67	5674	573
Tanya Agarwal	M	154116	GN	ELECT	Electrical	41.33	16226	368

Name Of The Student	Gen	Roll Number	CAT	Branch	Branch in GATE	GATE Marks	Rank	Gate Score
Udit Gupta	M	154117	GN	ELECT	Electrical	40	17314	354
Tarun Agarwal	M	154178	GN	ELECT	CS	43.33	4669	503
Harsh Shukla	M	154078	GN	ELECT	CS	64	531	733
Lavish Gupta	M	154024	GN	ELECT	Electrical	46.67	425	12509
Achraj Prakash	M	154124	GN	MECH	Prod&IE	36	320	400
Rajneesh Kharwar	M	154162	ST	MECH	Mechanical	43.31	15354	449
Abhishek Raj	M	154122	sc	MECH	Mechanical	22.7	46024	228
AradhyaKulshreshtha	M	154130	GN	MECH	Mechanical	43.33	4669	503
Manmohan Singh	M	154146	GN	MECH	Mechanical	45.48	472	13618
Netrapal Singh	M	154150	GN	MECH	Mechanical	41.67	431	16820
Parhitosh Sharma	M	154155	GN	MECH	Mechanical	65.53	688	2920
Puneet Kumar Singh	M	154158	OBC	MECH	Mechanical	47.88		11739
Saran Prasad	M	154166	sc	MECH	Mechanical	22.7	228	46024
Shivanshu Sharma	M	154171	GN	MECH	Mechanical	37.42	386	21134

14. Training Programmes for students

a. Expert Talks organized to the students as a part of the course curriculum to augment prescribed curriculum

S.No.	Name of the expert lectures	Name of the Faculty	Affliation	Dates
1	Concrete Technology	Prof. S. Sreenivasulu, Prof. of Civil Engineering	JNTUH	21-Jun-19
2	Physics of Remote Sensing	Dr. T. Vijaya Lakshmi Associate Professor	IST, JNTUH	15-Jun-19
3	Environmental Biotechnology and Civil Engineering Applications	Dr. CH. Sasikala Professor Centre for Environment	IST, JNTUH	14-Jun-19
4	water and Waste water technologies	Dr. V. HimaBindu Professor Centre for Environment	IST, JNTUH	13-Jun-19
5	Fundamentals of remote Sensing	Dr. N. Sreenivas, INCOIS	INCOIS	13-Jun-19
6	Topo-sheet reading and feature extracting	Dr. AVK Reddy, Assistant Professor and Mr. Abhilash, JRF	IST, JNTUH	12-Jun-19
7	Overview on Geospatial Technologies and its applications	Dr. T. Vijaya Lakshmi Associate Professor	IST, JNTUH	11-Jun-19
8	Overview of Building Material, construction and planning and structural analysis	Dr. B. Siva Konda Reddy, Prof. of Civil Engineering	JNTUH	11-Jun-19
9	Geomorphology and Geological Processes	Dr. A.V. SubbaRao Academic Advisor	IST, JNTUH	10-Jun-19

b. Expert talks in workshops organized

S.No.	Name of the Activity	Name of the Faculty	Affiliation	Dates
1	Two weeks training on GST and Industry Internship Awareness to DEI students under Twinning Activity - Half day workshop on Green Building Concepts and Entrepreneurship - Half day Workshop on high rise Buildings, Steel structures and OHS at M/S Phoenix Infra	Faculty of IST and Industry Partners	IST, JNTUH	10-22 June 2019

2	Training and to carry out research project on Nanotechnology based rapid prototyping at Dayalbagh Educational Institute, Agra	Prof. A.K. Saxena Dept. of Electrical Engg., DEI	DEI, Agra	15-20 April 2019
3	One day workshop on "Recent Trends in Sustainable Green technologies": Expert Lecture on Applied Geomatics Green Business Opportunities and Challenges Bacterial Diversity as an Innovation in Environmental Biotechnology	Dr. T. Vijaya Lakshmi, Associate Professor of Environment Mr. K.S. VenkataGiri Executive Director , CII IGBC Dr. CH. Sasikala Professor, CEN	IST, JNTUH and CII IGBC	3-5 May, 2018

c. Following activities have been organised for pre final and final year students under industry readiness programme. Career Guidance is an integral part of the curriculum for pre final and final year students

(i) Resume writing/checking (II, III and IV year students)
(ii) Aptitude Test Practice (245 students)
(iii) Group Discussion Sessions (210 students)
(iv) Mock Interviews (115 students)
(v) Career Guidance : Compulsory for all pre final and final year students

d. Following activities have been organized to train students and make them better equipped to handle industrial environment
(i) Guest lectures on expectations from Coop trainee while at internship at the industry, personal effectiveness for all III year students
(ii) Soft skills (247 students)
(iii) Spoken English (319 students)
(iv) Basic IT (238 students)

Besides above, the students are hone their skills on the following projects which are part of their curriculum

a. Product Manufacturing Project (PMP) - II Year
b. Design Engineering and Theme Development project (DE/TD) : III Year
c. Rural Engineering Project (REP) : IV Year
d. Major Project : IV Year

15. Training programmes for Teachers & Staff

Faculty, non-teaching staff and other staff are encouraged to attend various training programmes, workshops organized within/ outside university. Following is the list of various training activities attended by staff.

Number of teachers trained in pedagogy : 10

Number of teachers trained in Geomatics : 1

Number of teachers trained in OPEL RT : 4

Number of teachers trained in NBA : 3

Number of teachers trained in OBE : 20

Number of teachers trained in Tally : 2

Number of teachers trained in MIS : 2

Number of teachers trained in EMP : 1

Total number of teachers who have undergone training : 40

Total number of regular faculty in place: 56

Percentage : 40x100/56 = 71.4

16. Student's Internship

A strong emphasis is given to practical training in the Institute's Curriculum through mandatory industry internships at various levels listed below-

(i) After 1 st year, 15 days in-house workshop training

(ii) After 2 nd year, 30 days summer internship in industry/IIT

(iii) After 3 rd year, 5 month internship in industry

100% students have gone through these internships.

The Institute has provided sustenance assistance to following students (currently undergoing Coop Training) under Graduate Employability head of TEQIP. The amount of assistance is 5000/- per month per student.

Sr. No	NAME	Roll No	Contact No.	Name of Industry
1	AADITYA SHARMA	164001	9917181369	TRS Proprietor
2	AAKARSH KUMAR DUBEY	164201	8532863566	JSW Energies Ltd
3	AAKASH BARANWAL	164134	8476959234	Hughes SystiquePvt. Ltd
4	AAYUSHI SINGH	164071	9927744459	Cadence Design Systems
5	ABHISHEK PRATAP SINGH	146172	9084178453	Jadon Realstate& Developers
6	ACHAL DUBEY	164203	7409371083	PUSHTI METAL INDUSTRIES
7	ADITYA KUMAR	164002	7906955341	MEGS Geo Engineering Service
8	AJAY KUMAR	156891	8340506216	Intertek India Pvt. Ltd
9	AKANSHA AGARWAL	164207	8755831707	TATA CUMMINS PVT. LTD
10	AKANSHA BANSAL	164143	9410662292	Pncinfratech limited
11	AKANSHA KATIYAR	164003		PBA Infrastructure Ltd
12	AKANSHA KATIYAR	164003	9760200604	PBA Infrastructure Ltd
13	AKASH KULSHRESTHA	156352	7983027978	Khandelwal cables Limited
14	AKASH KUSHWAH	164209	8057830058	PUSHTI METAL INDUSTRY
15	AKHIL GOEL	164004		NBCC
16	AKHILGOEL	164004	8077908427	NBCC
17	AMAN KUMAR	164005	9084834086	Kuldeep Kumar Contractor
18	AMAN SHARMA	164213	9760898368	SUBROS LTD
19	AMAN SINGHAL	164078	9897248233	Cadence Design Systems
20	ANAMI PRASAD	164006	9634814139	NBCC
21	ANIGANI THRIVENI	164082	8630677743	Hindustan ship yard Ltd
22	ANJALI SHARMA	164083	9720304064	CROMPTON GREAVES
23	ANKIT KUMAR	164215	7417617500	JSW ENERGY LTD
24	ANSHAL KHATRI	164217	8077373080	ESSAR STEELS

25	ANURAG KUMAR	164008	9759546609	Hyosung t&dPvt Ltd
26	ANURAG SHARMA	164218	7060429332	New Holl& Fiat India Pvt ltd
27	ANUSHKA	164009	8433465001	Defence Materials & Stores R&D Est.
28	ARUN CHAUHAN	146180	7248132510	Amodh Construction
29	ASHISH KUMAR	164011	9997494827	NBCC
30	AYUSH SINHA	156608	9760016141	Crompton Greaves Ltd
31	BHUVNESH DIXIT	146185	7302311886	NK GARG BUILDCON (INDIA)
32	C JYOTHIKA	146440	7906642407	Cadence Design Systems
33	CHITRANSHU DUBEY	164222	9024687279	Pushti Metal Industries
34	DAVID SINGH PURI	164090	9536977344	Varroc Engineering Limited
35	DEEN DAYAL VERMA	164014	6396831745	DMRC
36	DEEPDHWAJ	164223	9462773006	ESSAR STEEL
37	DEEPTI VAIRAGI	164224	8218154306	CNH Industrial (India) Pvt. Ltd
38	DEVESH GHAI	164225	9557532516	Maruti Suzuki India Limited
39	DEVESH KUMAR SINGHAL	164226	9837594352	Action Construction Equip.Ltd
40	DHARMENDRA KUMAR	164267	7455892324	Elan Auto indiaLtd
41	DIVYANSH GUPTA	164017	9760504494	L & T -MHPS Boilers Pvt. Ltd
42	GAURAV KUMAR RATHOR	164018	8532069428	DMRC
43	GAURAV SINGHAL	156377	7055877969	Amodh Construction
44	GURUCHARAN RUVVA	164249	9182548842	L&T-MHPS Boilers Pvt. Ltd
45	HEERENDRA SOLANKI	164228	7535971674	L & T MHPS BOILERS
46	HIMANSHU CH&RA	164229	7455910476	L&T MHPS BOILERS PVT. LTD
47	JAI ARORA	164020	8439139376	JCB India Ltd.
48	KAMAL KISHOR	164231	8920875833	IPGCL & PPCL
49	KANCHAN SAVITA	164022		ShriRiddhi Siddhi BuildWell Ltd
50	KAPIL SINGH	164023	8630136403	L&T-MHPS Boilers Pvt. Ltd
51	KHUSHBOO SINGH	164101	7454880353	IIT, KANPUR
52	KHUSHBU BALANI	164024	9411205588	KULPDEEP KUMAR CONTRACTOR
53	KOMERI ANUSHA	164102	9701836388	HINDUSTAN SHIP YARD LTD
54	KOTTAKOTA RADHA PRASAD	164232	9642046017	L&T MHPS BOILERS PVT. LTD
55	KRITIKA GUPTA	164104	8171799669	Siemens tech&servicesPvt Ltd
56	KUMAR VIKRAM	164025	7253909898	NBCC
57	KUNAL PATEL	164233	8218443230	Jamuna auto industries
58	KUSHAGRA SHARMA	164026		PNC infratech.
59	MAHAK KUMAR GOYAL	146289	9027906962	JSW ENERGY LIMITED
60	MANEESH KUMAR	156388	6396477747	JSW Energy Limited
61	MANEESHA BANSAL	146149	7464933428	Mahi build home Pvt.Ltd

62	MANISHA SINGH	156527	7505807385	TATA CUMMINS PVT. LTD
63	MANSI SHARMA	164028	7906057355	MMD Elect.&Struct. Works LLP
64	MANSI SINGH	164029	8650428289	NBCC
65	MAYURI KH&ELWAL	164030	8433456156	Tata cumminsPvt. Ltd
66	MOHINI KUMARI PIPPAL	164031	8077904818	DELHI METRO RAIL CORP LTD
67	MOHIT NAGAR	164235	9024439065	RAJA INSULn.& REFRACTORIES
68	MOHIT UPADHYAY	156563	8279480205	L&T MHPS BOILERS PVT LTD
69	NEHA	164105	9411240019	CG Power Plant& Ind. SolnsLtd
70	NISHANT KUMAR	164236	7060432165	JSW Energy Ltd
71	NITISH KUMAR VERMA	164163	8920454312	Relaxo footwear limited
72	P&IT VIKRANT RAWAT	146107	9997738896	L&T MHPS Boiler Pvt. Ltd
73	PARIDHI TIWARI	164237	6395515894	Hindustan Shipyard Ltd
74	PINKY MEENA	164034	7417442246	ShriRiddhiSiddhiBuildwell Ltd
75	PIYUSH AGARWAL	164238	9027708234	Jindal Steel works
76	POOJA KUMARI	164240	7983035057	Hindustan Shipyard Ltd
77	PRATEEK BISARIYA	156635	7060763743	JBM Industries Ltd
78	PRIYANKA CHAUHAN	164036	9027221558	DELHI METRO RAIL CORP LTD
79	RAGHVENDRA SINGH	164243	8433450463	JSW
80	RAHIL ARSHAD	146208	9639912665	Amodh Construction
81	RAHUL KUMAR	164244	8630869514	JSW ENERGY LTD
82	RAJESH CHIRAG DEV	164042		L&T
83	RAM CHAUDHARY	154163	7017123319	ELAN AUTO INDIA LTD
84	RISHABH SINGH	164247	9410000967	Action Construction Equip.Ltd
85	RITU SONI	164118	7017852350	Crompton Greaves
86	ROHIT KUMAR	164248	9639224802	Elan auto india limited
87	S SWAMYCHARAN	164119	9160550667	TRANSGUARD ELECTRICAL SYSTEMS
88	SACHIN YADAV	156421	8439307188	L&T MHPS BOILERS PVT LTD
89	SAHIL GAUTAM	164044	9149152517	Everest industry
90	SAMRIDDHI S&HIR	164120	7838642577	Cadence Design Systems
91	SARVENDRA PRATAP SINGH	164121	9917997986	Supercritical Chhabra thermal power plant
92	SAUMIYA	164122	9457417699	
93	SAURABH ATULKAR	164251	7300965478	Akshay industries
94	SC&ITA	164253	8979689497	Tata Cummins Pvt. Ltd
95	SHIVANGI SRIVASTAVA	164256	6396820486	TATA CUMMINS PVT. LTD
96	SHIVRAM MEENA	164123	9461313390	Panchayat samiti BASERI
97	SHUBHAM LAWANIYA	146326	9012857403	L&T MHPS BOILERS PVT LTD
98	SHWETA KUMARI	164126	9528315611	TATA STEEL
99	SONAM SHARMA	164051	7310889464	MMD Elect.& Structural Works

100	SONIKA	164052	8755932342	NBCC
101	SOURABH RAUT	164129	9870787106	Crompton Greaves Ltd
102	SURENDRA KUMAR TIWARI	156907	9128897472	NK GARG BUILDCON (INDIA)
103	SWATI RAWAT	164053	7505036058	Kuldeep Kumar Contractor
104	TANISH MEENA	164054	8979341966	Kuldeep Kumar contractor
105	TANNU MITTAL	164055		ShriRiddhi siddhi buildwell ltd
106	URVASHI CHAUDHARY	164132	7060122019	Chhabra Thermal Power Plant
107	VAIBHAV SHARMA	164056	9457451225	UP PWD
108	VAIBHAV VERMA	146224	7455830694	Casa Woodstock
109	VAJID ALI	164258	8821013606	Case new Holl
110	VIPUL JAIN	164259	9870874442	L&T MHPS BOILERS Ltd
111	VISHAL BHATIA	164260	7902097633	JSW Energy Ltd
112	VISHNU CHAUDHARY	164261	9068306726	L&T-MHPS Boilers Pvt. Ltd
113	YAGVENDRA MEHRIA	164263	9411984664	Imperial Auto Industries
114	YASH KUMAR SHARMA	164264	7078535425	ESSAR STEELS
115	YASH RANA	156448	7017129301	JINDAL GROUP (JSW)

17. Campus Placement 2018-19

ORGANIZATION & PACKAGE IN LAKHS/ANNUM	NAME	BRANCH	CATEGORY
MARUTI UDYOG LTD 8 LPA	AradhyaKulshreshtha	Mechanical	General
	Shivanshu Sharma	Mechanical	General
PNC INFRATECH 3 LPA	Nikhil Kumar Gupta	Civil	OBC
RRA PROJECT MGMT. PVT. LTD 3.4 LPA	Man Singh	Civil	SC
TCS 3.3 LPA	Harsh Shukla	Electrical (CS)	General
	Nishi Hotani	Civil (CS)	General
	Mradul Singh	Electrical (CS)	OBC
	Netrapal Singh	Mechanical	General
	Lavish Gupta	Electrical	General
	RagineePachaury	Electrical (CS)	General
	Saumya Agarwal	Electrical (CS)	General
	NishthaParashar	Electrical (Core)	General
	Rajat Kumar Rathore	Mechanical (Core)	General
	Kamraan Khan	Electrical(CS)	
	NiteshMotwani	Mechanical (Core)	General
	Akash Kumar	Mechanical (Core)	
	Vabil	Industrial	OBC
	Mahima Yadav(154090)	Electrical (CS)	OBC
	Mahima Chaudhary	Electrical	General
FIAT 5.1 LPA	Punarvasu Sharma	Mechanical	General
	ShubhraTyagi	Mechanical	General
	NimishRajouria	Mechanical	General
	Shuchita Mahajan	Mechanical	General
PRISM CEMENT 4.2 LPA	Rajat Agarwal	Civil	General
	JitendraPratap	Civil	SC
	Hardik Garg	Civil	General
	Krishna Agrawal	Civil	General
	Sarang Gupta	Civil	General
	Prashant Kumar	Civil	OBC
	Yashvardhan	Civil	General
	UttkarshUpadhyay	Civil	General
	Anmol Gambhir	Civil	General
FUTURE SUPPLY 3 LPA	Bobby Tyagi	Mechanical	General
	Shivani Sharma	Mechanical (Industrial)	General

	Saran Prasad	Mechanical	General
	Shivam Singh Pal	Mechanical	OBC
	HarshitSatsangi	Mechanical	General
	SumiranBarnwal	Mechanical	General
	Ankit Ghai	Mechanical	General
	Sandesh Kumar Srivastva	Mechanical (Industrial)	General
TATA PROJECTS 4.5 LPA	Sonika Gupta	Civil	General
	Saloni Agarwal	Civil	General
TORRENT POWER 3.25 LPA	NAINA Sharma	Electrical	General
	Soniya	Electrical	SC
	Kratika Agarwal	Electrical	General
	Arpita Sharma	Mechanical(Industrial)	General
	Roman Rajoria	Mechanical(Core)	
	Rahul Sharma	Electrical	General
	Pushpendra Singh Yadav	Electrical	OBC
	Jolly Raghav	Electrical	General
ESSAR 2.7 LPA	Aashi Gupta	Electrical (Cs)	General
	Biresh Kumar	Mechancal (Cs)	OBC
	MuditGoswami	Electrical (Cs)	OBC
	Tarun Agarwal	Electrical (Cs)	General
	Ishita Agarwal	Electrical (Cs)	General
	ChandradeepGautam	Electrical (Cs)	General
	Ritika Agarwal	Electrical (Cs)	General
	Mradul Singh(Off Campus)	Electrical(CS)	OBC
ISGEC 4.47 LPA	NishikaChaurasia	Mechanical(Ie)	OBC
	Rajiv Kumar	Mechanical	OBC
	Hitesh Mulani	Mechanical	General
	Raja Gautam	Mechanical	General
	PratyushPriyadarshi	Mechanical	General
GUPTA OVERSEAS 1.8 LPA	Manish Kumar	Footwear Technology	OBC
	Amar Bahadur	Footwear Technology	
	AnantSaxena	Footwear Technology	General
	Avinash Gupta	Footwear Technology	General
	Deeksha Jain	Footwear Technology	General
	Mayank Kumar Khatri	Footwear Technology	General
	Moh. Aaquib Qureshi	Footwear Technology	OBC
	Sachin Kumar	Footwear Technology	
	Pragya Bali	Footwear Technology	General
	Vineet Tiwari	Footwear Technology	General
	Anurag Yadav	Footwear Technology	OBC
EVEREST 2.2 LPA	Guru Dayal Patel	Electrical	OBC
	AnshulVerma	Mechanical	OBC

	Manendra Singh	Civil	OBC
	Mayank Gupta	Civil	GN
BATA 4.1 LPA	Alakh Chand Gupta	Footwear Technology	General
	AmishaTaneja	Footwear Technology	General
	JalajBharadwaj	Footwear Technology	General
	Kartik Asthana	Footwear Technology	General
	Shubham Kumar Sharma	Footwear Technology	General
METRO & METRO 1.8 LPA	Agam Yadav	Footwear Technology	OBC
	Ranesh Sharma	Footwear Technology	General
	Sonal Gupta	Footwear Technology	General
PARAGON 3.2 LPA	Vedvir Singh	Footwear Technology	OBC
ADI 10.5 LPA	Mahima Agarwal	Electrical (CS)	General
	Garima B Sharma	Electrical (CS)	General
OMNITROL NETWORK 2.5 LPA	Shashank Kapoor	Mechanical (CS)	OBC
YOCTOZANT TECHNOLOGIES 5.54 LPA	HarshitaSinghal	Electrical	General
CADENCE 2.64 LPA	Mehar Saran	Electrical (CS)	General
	Mahima Yadav	Electrical (CS)	OBC
	ChandradeepGautam	Electrical (CS)	General
	PARUL Agrawal	Electrical (CS)	General
	MuditGoswami	Electrical (CS)	General
	Ritika Agrawal	Electrical (CS)	General
	Aashi Gupta	Electrical (CS)	General
BIRLA CEMENT 5.45 LPA	Deepti Singh	Civil	SC
INVERTED ENERGIES LTD 3 LPA	Anjali Shukla	Electrical	General
	Udit Gupta	Electrical	General
SUNSURE 4.25 LPA	Achraj Prakash	Mechanical(IE)	GN
	Siddharth Sharma	Mechanical (CS)	GN
LOGIT ONE 3.8 LPA	AbeerSaxena	Electrical (CS)	General
	Stuti Agarwal	Electrical (CS)	General
KEYSIGHT TECHNOLOGIES 6.5 LPA	Mahima Yadav(154091)	Electrical (CS)	OBC
HCL 3.5 LPA	Bhavika Arora	Electrical(EC)	General
	Ami Agarwal	Electrical(EC)	General
	NishthaParashar	Electrical	General

18. Completed/Pursuing Ph.D.s

1.	Akash Singh Chaudhary (akashsinghchaudhary@gmail.com/9458208042)	D.K. Chaturvedi, Electrical Engineering Health Monitoring of Solar PV Distributed Generation System using Soft Computing Approach	Electrical Engg.	M	SC	Full-time
2.	Amit Yadav (amitphd2@gmail.com/9761124722)	D.K. Chaturvedi, Electrical Engineering DESIGN AND DEVELOPMENT OF SAFE, INTELLIGENT MOVING MACHINE (SIMM) USING SOFT COMPUTING TECHNIQUES	Electrical Engg.	M	BC	Full-time
3.	Ankit Bansal (bansalankit1125@gmail.com/9887503389)	D. Bhagwan Das, Electrical Engineering RELIABILITY EVALUATION OF SOLAR PHOTOVOLTAIC POWER SYSTEM	Electrical Engg.	M	GN	Full-time
4.	Anurag Gupta (deianuraggupta@gmail.com/8979555250)	D.Ganeshwar Rao, Mechanical Engineering EXPERIMENTAL AND NUMERICAL INVESTIGATION OF COMPRESSION IGNITION ENGINE PERFORMANCE WITH GREEN FUELS	Mechanical Engineering	M	GN	Part-time
5.	Anurag Verma (rsaverma7@gmail.com/9711264579)	D.K. Chaturvedi, Electrical Engineering &Prof. B. K Panigrahi, IIT Delhi Topic to be decided	Electrical Engg.	M	GN	Part-time
6.	Ashish Yadav (ashishyadav5@gmail.com/8512053722)	Sanjay Kumar Srivastava, Mechanical Engineering Electromyographic Analysis of Low Back Muscles of Occupational Workers during Rehabilitation Exercises	Mechanical Engineering	M	BC	Full-time
7.	Atul Prakash Prajapati (atulprakash21@gmail.com/9759006909)	D.K. Chaturvedi, Electrical Engineering Design and Development of Social Artificial Cognitive Agent for Effective Teaching	Electrical Engg.	M	BC	Full-time
8.	Atul Suri (atulsuri@dei.ac.in/9412894687)	K. Hans Raj &RajatSetia, Mechanical Engineering EXPERIMENTATION, MODELING AND OPTIMIZATION OF FRICTION STIR WELDING PROCESS FOR JOINING SIMILAR AND DISSIMILAR MATERIALS	Mechanical Engineering	M	GN	Part-time
9.	Dharmendra Kumar Tyagi (dharmendratyagi001@gmail.com/9760956478)	V.Soami Das, Mechanical Engineering & Aditya, Mechanical Engineering Topic to be decided.	Mechanical Engineering	M	GN	Full-time

10.	Dheeraj Kumar Angajala (dheerajkumar.dei@gmail.com/9634470051)	Dr. Ankit Sahai, Mechanical Engineering & R.S Sharma, Mechanical Engineering Topic to be decided.	Mechanical Engineering	M	GN	Part-time
11.	Dilip Kumar (dilipkumar.er@gmail.com/9760246818)	Ashok Yadav &Ranjit Singh, Mechanical Engineering EXPLORING SUSTAINABILITY, OPERATIONAL EXCELLENCE AND ECO-FRIENDLY ENVIRONMENT THROUGH SIX SIGMA IN FOUNDRIES: A SELECT STUDY IN AGRA FOUNDRIES	Mechanical Engineering	M	SC	Full-time
12.	Gaurav Pratap Rana (gauravpratap80@gmail.com/9557461144)	D.K. Chaturvedi, Electrical Engineering Topic to be decided	Electrical Engg.	M	BC	Part-time
13.	Isha (ishasingh268@gmail.com/8527927992)	D.K. Chaturvedi, Electrical Engineering Solar Power Forecasting and Planning using Soft Computing Approach	Electrical Engg.	F	BC	Full-time
14.	IshantSinghal (ishantsinghal.dei@gmail.com/8510970369	Rahul Swarup Sharma & Ankit Sahai, Mechanical Engg Topic to be decided.	Mechanical Engineering	M	GN	Full-time
15.	KasturiPritamSatsangi (pritamsk@gmail.com/9412159166)	A.K. Saxena& D. Bhagwan Das, Electrical Engineering PERFORMANCE EVALUATION OF SOLAR PHOTOVOLTAIC BASED MICROGRIDS	Electrical Engg.	M	GN	Full-time
16.	KedriJanardhana (janardhan.kedri@gmail.com/8006227016) Not Registered in Mar19	A.K. Saxena& D. Bhagwan Das, Electrical Engineering Simulation and Validation of SPV micro grid comprising 518.2 KWp Distributed Solar Power Plants at Dayalbagh Educational Institute	Electrical Engg.	M	ST	Part-time
17.	Kumar Ratnakar (kumar.ratnakar@gmail.com/7895277397)	D.G. Rao, Mechanical Engineering & Manoj Dixit, Mechanical Engineering Topic to be decided	Mechanical Engineering	M	GN	Part-time
18.	Lakhan Agarwal (lakhanagarwal24@gmail.com/9808369906)	Ashok Yadav, Mechanical Engineering DEVELOPMENT OF AN ECO-FRIENDLY GRAIN DRYER BASED ON DESICCANT DEHUMIDIFICATION	Mechanical Engineering	M	GN	Full-time
19.	Manish Dixit (manishdixit90@gmail.com/9548098970)	S.K. Srivastava, Mechanical Engineering Topic to be decided.	Mechanical Engineering	M	GN	Full-time
20.	Mayank Kumar Agrawal (dei.mayank.agrawal@gmail.com/706075511)	K. Hans Raj, Mechanical Engineering &Ranjit Singh, Mechanical Engineering	Mechanical Engineering	M	GN	Part-time

		Topic to be decided				
21.	Md. Sharif Iqbal (mdsharifiqbal@gmail.com/9897750366)	D.K. Chaturvedi, Electrical Engineering Health Monitoring System for Three Phase Induction Motor using Soft Computing Techniques	Electrical Engg.	M	GN	Full-time
22.	Nonihal Singh Dhakry (nonihal.ace@gmail.com/09837304367)	Ashok Yadav &Sant Kumar Gaur, Mechanical Engg. SOME ASPECTS OF POLICY STRUCTURING FOR STRATEGIC PLANING TOWARDS SUSTAINABLE INTEGRATED RENEWABLE ENERGY USE FOR RURAL INDIA	Mechanical Engineering	M	GN	Full-time
23.	Piyush Jain ((piyush.tech87@gmail.com/9319894944)	Rahul Caprihan, Mechanical Engineering Topic to be decided.	Mechanical Engineering	M	GN	Full-time
24.	Pragyesh Kumar (er.prag@gmail.com/8410909001)	C. Patvardhan, Electrical Engineering &C. Vasantha Lakshmi, Physics & Computer Sc. Quantum Inspired Evolutionary Algorithms for Image and Video Watermarking	Electrical Engg.	M	GN	Full-time
25.	Pratap Singh (pratap.dei@gmail.com/8445177997)	K. Hans Raj, Mechanical Engineering EXPERIMENTAL STUDIES ON FRICTION STIR PROCESSING (FSP) AND EQUAL CHANNEL ANGULAR PRESSING (ECAP) OF METALS AND COMPOSITES	Mechanical Engineering	M	GN	Part-time
26.	Pratap Srivastava (pratap.dei@hotmail.com/9897849589)	Sant Kumar Gaur, Mechanical Engineering TOWARDS AN INTELLIGENT WISDOM BASED SYSTEM FOR ENERGY POLICY STRATEGIES FOR SUSTAINEBLE DEVELOPMENT WITH SPECIAL REFERENCE TO RENEWABLE ENERGY SYSTEM OF INDIA	Mechanical Engineering	M	GN	Part-time
27.	Pushpendra Yadav (er.pushpendrayadav@gmail.com/7500778686)	Rahul Swarup Sharma & Ankit Sahai, Mechanical Engg. RESEARCH STUDIES ON FUSED DEPOSITION ADDITIVE MANUFACTURING 3D PRINTER SYSTEM	Mechanical Engineering	M	BC	Full-time
28.	R.S.S. Prasanth (rss.prasanth@gmail.com/9897020919)	K. Hans Raj, Mechanical Engineering Study and development of nature-inspired algorithms for intelligent manufacturing systems	Mechanical Engineering	M	GN	Part-time

29.	Rajeev Kumar Yadav (rajtony1979@gmail.com/9837722032)	Sanjay Kumar Srivastava &Ranjit Singh, Mech. Engg STUDY OF PREVALENCE AND WORK-RELATED RISKFACTORS FOR MUSCULO-SKELETAL DISORDERS (MSDs) AND THEIR CONSEQUENCES AMONG CONSTRUCTION AND SHOE MANUFACTURING WORKERS	Mechanical Engineering	M	BC	Part-time
30.	Ravi Bansal (ravibansal.dei@gmail.com/7669211443)	Sanjay Kumar Srivastava, Mechanical Engineering Designing Safe Lifting Tasks for Occupational Workers	Mechanical Engineering	M	GN	Full-time
31.	Ravindra Bhardwaj (ravindrabhardwaj2@gmail.com/8267919411)	A.K. Saxena& G.S.S. Babu, Electrical Engineering Modeling and Optimal Operation of Biogas Plant for Cooking and Generation of Electricity	Electrical Engg.	M	GN	Full-time
32.	RishabhUpadhyay (rshabhupadhyay1@gmail.com/8979886110)	D. Bhagwan Das, Electrical Engineering DESIGN AND DEVELOPMENT OF FPGA BASED DIGITAL PROTECTION RELAYS FOR SMART MICROGRID	Electrical Engg.	M	GN	Full-time
33.	Satendra Singh (1988satendrasingh@gmail.com/7895684775)	D.G.Rao, Mechanical Engineering & Manoj Dixit, Mechanical Engineering Topic to be decided.	Mechanical Engineering	M	OBC	Full-time
34.	ShivamGautam (shivam.gautam11972@gmail.com/8218386284)	S.K. Srivastava, Mechanical Engineering Topic to be decided	Mechanical Engineering	M	GN	Full-time
35.	ShivaniGautam (shivanigautam1694@gmail.com/7351545545)	A.K.Saxena, Electrical Engineering &D.Bhagwan Das, Electrical Engineering	Electrical Engineering	F	GN	Part-time
36.	Surat Prakash Kaushik (suratprakashkaushik@gmail.com/9027271132)	Ashish Saini, Electrical Engineering Soft Computing Optimization Techniques for some UnitCommitment Models in Power System	Electrical Engg.	M	GN	Part-time
37.	Sushobhit Singh (sushobhit.singh@gmail.com/8755830915)	A.K. Saxena,Electrical Engineering & P.K. Kalra, Delhi EFFICIENT ALGORITHMS FOR TIMING ANALYSIS AND SIGNAL INTEGRITY FOR VLSI CIRCUITS	Electrical Engg.	M	GN	Part-time
38.	V. Srinath (srinathlal@gmail.com/07351784748)	D.K. Chaturvedi& Man Mohan, Electrical Engineering Power quality issues in grid connected solar power system	Electrical Engg.	M	GN	Part-time

39.	Vishal Pengoriya (vishal85.rs@gmail.com/ 09837890632)	Ashok Yadav, Mechanical Engineering Comparative Evaluation of Energy Efficiency of Brick Kilns and Energy Study of Natural Gas Based Brick Kiln for Small Scale Production in India	Mechanical Engineering	M	GN	Full-time
40.	VuppuluriPrem Prakash (vpremprakash@gmail.com/7534037825)	C. Patvardhan, Electrical Engineering &AnandSrivastav, Germany Heuristics and Meta-heuristics for some Constrained Spanning Tree Generation Problems	Electrical Engg.	M	GN	Part-time

19. Sponsored R&D projects in-hand

S.No.	Project Title	Duration	Amount (Lakhs)	Weightage for 2018-19 (Lakhs)
1	Evolutionary algorithms for parameter optimization of whole ocean coupled biogeochemical models and for genome assembly	2018-20	5.47	1.82
2	Design & development of hybrid renewable energy microgrid with value chain applications for agriculture & dairy farm	2018-20	223	111.5
3	Modernization of computer lab	2017-19	4.5	2.25
		TOTAL	232.97	115.57

Total revenue generated in 2018-19: Rs. 1241.18 Lakhs

Percentage of R&D project with respect of total revenue: 9.3%

20. Conferences Organized

In the present time when all natural resources like water, air, soil and energy are being exploited at a burgeoning pace to meet the society's demand, the need for sustainable green technologies is also being felt more seriously.

Highlighting this issue and the various options available to deal with the situation, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra, organized on 5th May, 2018, a one day workshop on Recent Trends in Sustainable Green Technologies. Held under the aegis of TEQIP – III (Technical Education Quality Improvement Programme – Phase III), Ministry of Human Resource Development, Govt. of India, it was organized in collaboration with JNTU Institute of Science and Technology, Hyderabad. Chemistry Department of the Institute served as the nodal centre in organizing the workshop.

Most Revered Dr. P. S. SatsangiSahab, Emeritus Chairman, Advisory Committee on Education in Dayalbagh, graced the Inaugural Session. Prof.Sourav Pal, Director, IISER-Kolkata, delivered the inaugural address and spoke about multifarious applications of nanoclusters and the need and relevance of quantum computational techniques in their study. The workshop was divided in three technical sessions. Other eminent speakers in the workshop were: Prof.Balaji R. Jagirdar, Indian Institute of Science, Bangalore; Dr. N. Rajalakshmi, Centre for Fuel cell Technology (ARCI), IIT Madras; Dr. S. Suresh Babu, Vikram Sarabhai Space Centre, Thiruvananthapuram; Dr.R. Jenamani, Indian Meteorology Department (IMD), New Delhi; Prof. S. Ramaprabhu, Department of Physics, IIT Madras and Prof. T. R. Sreekrishnan, Indian Institute of Technology Delhi. The presentations in the workshop dealt with varied topics of high significance like: Diverse Nanostructured Materials; Fuel Cells and Electrochemistry; Climate Effects of Black Carbon Aerosols; Formation Process, Variability, and Method of Forecasting for Fog and Thunderstorm; Carbon Nanomaterials for Sustainable Green Technologies; andEnergy Neutral Biological Processes for Waste Management.

At the end, Prof. Pal and other eminent speakers visited the research laboratories of the Department of Chemistry and had interaction with the research students and faculty members of the department.

21. Startup & Innovation

DEI Start Up Commencing Centre for Emerging Entrepreneurs of Dayalbagh

Introduction:

Skill development and entrepreneurship has been an integral part in the Education system of DEI, since its inception in 1917. In DEI, besides the conventional education system, students have ample opportunities to learn and promote their hobbies as skill through Modular Courses starting from class VII onwards.

DEI took a quantum leap in entrepreneurship development benefitting masses from tribal belts to international level through well established Labs and skill parks. Community entrepreneurship and societal contribution are imbibed in values and teachings of Dayalbagh. Unique schemes like *earn while you learn* are providing financial support while allowing students to shoulder responsibilities and gain self reliance. E-portals and business advisory clinics help in organized operation and establishment of entrepreneurial avenues for novices and young entrepreneurs. The Curriculum has Village Industries and Entrepreneurship, Agriculture Operations and Social Service as integral part and are compulsory core courses for all students. Already implemented schemes like Earn-while-you-learn, Entrepreneurship Virtual Incubation Cell are augmented by the Startup Cell which aims at pre-incubation activities. To enhance the effectiveness of above mentioned endeavors and to provide need specific support to those with entrepreneurial aspirations, DEE SUCCEED has been established as a pre-incubating startup cell. Through the Cell, it is intended to build a strong eco-system for nurturing innovation and entrepreneurship and thus contribute to sustainable economic growth and generate large scale employment opportunities.

Vision Objective:

Augment entrepreneurial culture among the faculties and students of the institute and promote new ideas, innovations and subsequently to convert these innovative ideas/problems to feasible business models and possible entrepreneurial venture.

Mission Specific Objectives:

1. To develop a critical mass of motivated students & faculties with entrepreneurial orientation & skill
2. To build infrastructural support for innovation & early stage enterprise development and enabling access to resource & facilities at institute
3. To enhance in-house competency development to serve potential and early stage entrepreneurs and student innovators at the institute.
4. To provide platform for the budding entrepreneurs to interact with industrialists, professionals and alumni for motivation and guidance
5. To strengthen the inter department and inter-institutional linkage, incubators and other ecosystem enablers at different levels.

Activities:

For realizing the objectives following activities are planned

1) To develop a critical mass of motivated students & faculties with entrepreneurial orientation & skill
   a) Sensitization of target groups by organizing ice breaking sessions, motivational talks, interaction sessions with Alumni and successful entrepreneurs
   b) Conduct General Entrepreneurial Tendency Test for students and staff for identification of dreamers and Dreamer Mentors
   c) To organize Workshops on Design Innovation/ Problem Identification/ Rapid Prototyping / Idea generation hackathons and encourage students to participate
   d) To encourage students and faculty to pursue and earn e-learning certificates on Entrepreneurship and Innovation
   e) To arrange for interested students to undertake internship in Start-ups

2) To build infrastructure support for innovation & early stage enterprise development and enabling access to resource & facilities at institute
   a) To prepare and display Service Chart for Students to avail services
   b) Design and Print Promotion Material for Start-up Cell

c) To start Idea Club, Innovation Club and Start-up Club, establish organizational hierarchy in each of these and organize activities through these student clubs

d) Create provision for seed money support for major and minor projects of the students

e) To provide seed money support to projects for student competitions

3) To enhance in-house competency development to serve potential and early stage entrepreneurs and student innovators at the institute.

a) Conduct Mentor Training/FDP/EDP /capacity development Programs

b) Provide trainings to in-house Experts

c) Reward outstanding mentors, student members for their contributions

4) Encourage faculty to carry out research on EntrepreneurshipTo provide platform for the budding entrepreneurs to interact with industrialists, professionals and alumni for motivation and guidance

a) To arrange for alumni meet at campus

b) To arrange for interaction sessions with local entrepreneurs

c) Organize Tech-fest, competitions, hackathons

d) To organize visits, training to other institutions

5) To strengthen the inter department and inter-institutional linkage, incubators and other ecosystem enablers at different levels.

a) Conduct GETT for student and faculty of other departments of the Institute to extend the base of the Cell

b) Conduct Inter-Department Interaction Sessions to identify Current Industry & Societal problem & Entrepreneurship opportunity

c) Encourage Students to team up with Inter disciplinary representation to develop the Proof of Concepts (POC) for the proposed Solutions.

d) Encourage Students to participate and present their Ideas/Start-up models in various B-Plan Competitions/Events/ Workshops organized by other Lead institutes.

Events Planned

1. Conducting General Entrepreneurial Tendency Test for students, Staff for identification of dreamers and Dreamer Mentors

2. Organizing ice breaking sessions, motivational talks, interaction sessions with Alumni and successful entrepreneurs for students
3. To organize Workshops on Design Innovation, Problem Identification, Rapid Prototyping, Idea generation hackathons and encourage students to participate
4. Conducting activities through Idea Club, Innovation Club and Start-up Club
5. Conduct Mentor Training/FDP/EDP /capacity development Programs
6. Conduct GETT for student and faculty of other departments of the Institute to extend the base of the Cell
7. Conduct Inter-Department Interaction Sessions to identify Current Industry & Societal problem & Entrepreneurship opportunity

Facilities, Functions and Supports:

	Facility Particular	**Purpose**	**Status**
1	Library Facilities	Access to learning resources	Ready
2	3D Printing Facility	Prototyping	Ready
3	Workshop with Carpentry, Machine shop, Smithy, welding etc	designing and fabricating prototype of product	Ready
4	Industry Institute Partnership Cell (IIPC)	Mentoring and internship, arranging interaction with external experts	Ready
5	Computing facility	Planning, designing and prototyping of product and documentation	Ready
6	MoUs with Industries, external incubators and accelerators	Expert support	Ready
7	Access to all departmental laboratories	R&D in Planning, designing and prototyping of product	Ready
8	Academic Mentors	In-house mentoring support	Under discussions
9	Alumni Mentors	Technical, financial and procedural guidance	Under discussions
10	Seed capital to eligible Start-ups	Financing R&D support to the stage of prototyping	Modalities has to be worked out

DEI SUCCEED Team:

Team Members	Designation	Discipline	Role	Email	Contact
Dr. G.S. Sailesh Babu	Associate Professor	Electrical Engineering	Coordinator	babu.sailesh@gmail.com	7060185804
Dr. Ashok Yadav	Assistant Professor	Mechanical Engineering	Member	ashokyadavaca@gmail.com	9412893447
Anurag Gupta	Assistant Professor	Mechanical Engineering	Member	deianuraggupta@gmail.com	8979555250
K. Pritam Satsangi	Assistant Professor	Electrical Engineering	Member	pritamsk@gmail.com	9412159166
Prof. Praveen Saxena	Professor	Accountancy & Law	Member	pravinsaxenadei@yahoo.co.in	9897136483

Reportof Activities

(vi) Student clubs viz. Idea Club, Innovation Club and Startup Club have been started as part of start-up cell

It is envisaged that Startup cell to initiate its activities through student clubs viz. Idea club, Innovation Club and Start-up club. Hence, the pre incubation activities like idea development, proof of concept, product development, business model development etc. are proposed to be conducted through curricular and co-curricular activities of the institute

Curricular Activities

The curriculum includes a series of projects that are planned to implement a idea in phased manner. These projects are

a) **Product Manufacturing Project (PMP) - II Year**
Provides platform for developing physical models of various ideas. During the project, a student has to develop final product that includes proper packaging. This activity provides exposure to Workshop based development operations.

b) **Design Engineering and Theme Development project (DE/TD) : III Year**
Deals with project development ideas. A student group has to develop an innovative solution to self selected problem that deals with attributes like Physycal relizability, financial feasibility, economical viability, etc. and understand the process of designing the solution that is most likely succeed

c) **Rural Engineering Project (REP) : IV Year**
Deals with financial planning of a small and cottage industry. This deals with business plan including break-even analysis, estimation of expenditure, finding funding requirements and sources etc.

d) **Major Project : IV Year**

This is culmination of knowledge acquired by the student in the course of graduation. Student can pursue problem of his interest in the project which is principally technical in nature. Hence, any potential startup project idea can be pursued in this.

These curricular activities will be undertaken by each of the students in different clubs as presented hereunder.

Student Club	Students	Compulsory Activities
Idea Club	I Year Students II Year Students	Model Making Product Mfg. Project
Innovation Club	III Year Students	DETD Project
Start-up club	IV Year Students	Rural Engineering Project/ Major Project that can be converted in to business venture

Teacher incharges have been proposed for these clubs. These teachers would plan, and mentor activities of respective clubs in collaboration with other faculty members adopted as per requirement.

Student Club	Teacher Incharge	Contact	
Idea Club	Sh. Anurag Gupta	8979555250	anuragguptadei@gmail.com
Innovation Club	Dr. Ashok Yadav	9412893447	ashokyadavaca@gmail.com
Start-up club	Dr. G.S.Sailesh Babu	7060185804	babu.sailesh@gmail.com

Co-Curricular Activities

Further, these clubs will also participate in organizing following calendar activities and activities proposed in micro action plan

S.No.	Activity	Club
1	Technical model making competition on Open Day	Idea Club
2	Technical fest (Sampravaha)	Innovation Club
3	Hackathon	Startup Club
4	Motivational Lectures / Interaction Sessions	All three clubs

Following is the list of student volunteers

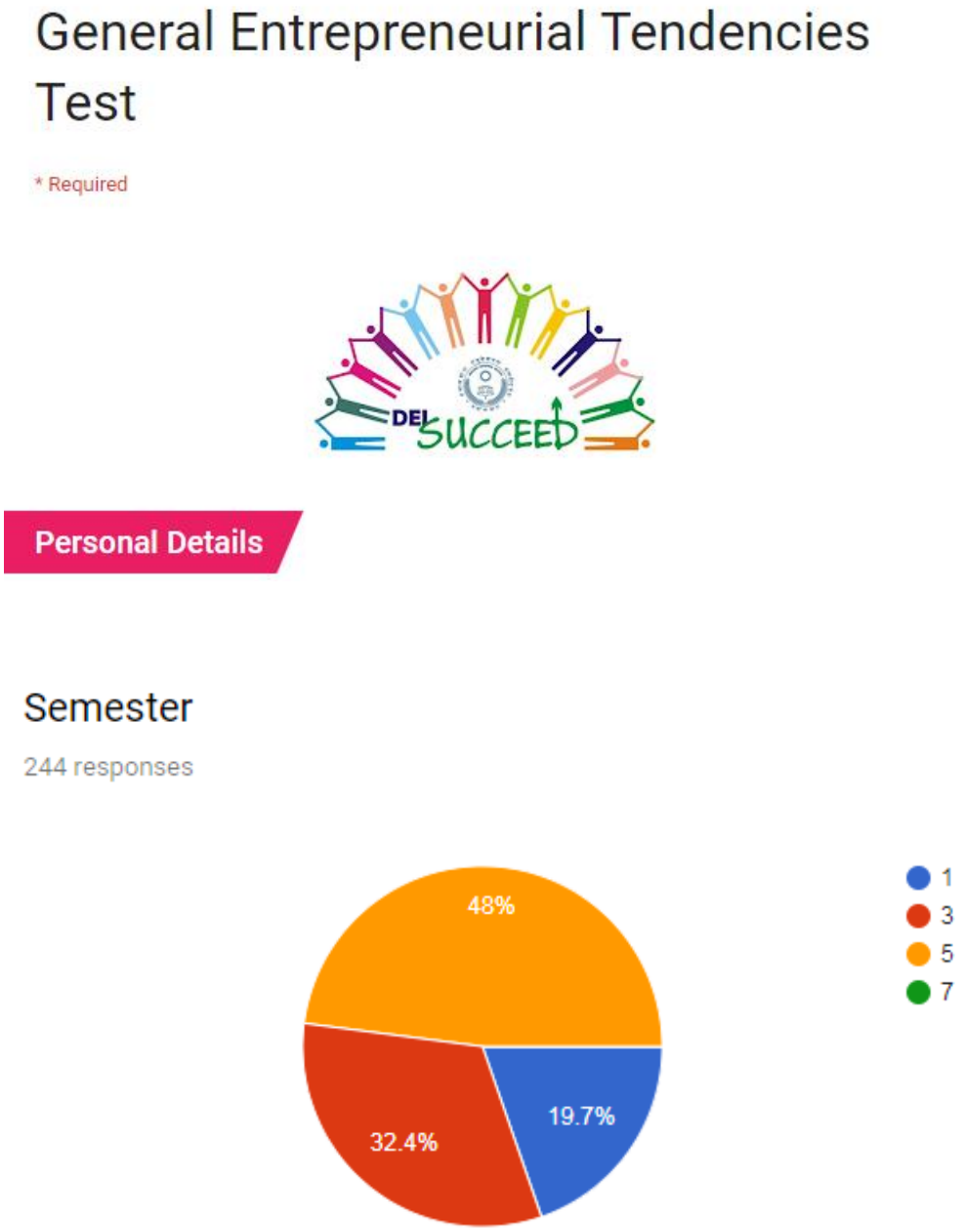
Name	***Roll No***	***Sem***	***Branch***	***e-mail Id***	***Mobile***
Shivam Gautam	*1700668*	*5*	*civil*	*gautam.shivam98@gmail.com*	*9149049699*
Vaibhav Gupta	*1700679*	*5*	*civil*	*vaibhav009009@gmail.com*	*6395615722*
Arti Patange	*1700632*	*5*	*civil*	*artipatange23@gmail.com*	*9456479329*
Harshit Agrawal	*1700724*	*3*	*Electrical*	*harshitcool19@gmail.com*	*8791300150*
Sumiran Gupta	*156542*	*5*	*Electrical*	*Sumirangpt1@gmail.com*	*8218972048*
Tamanna Srivastava	*1700753*	*5*	*Electrical*	*tamannasrivastava7@gmail.com*	*7895127826*
Arsh Dewan	*1700712*	*5*	*Electrical*	*arshdewan99@gmail.com*	*8219181584*
Aadhaar Bhatia	*1700701*	*5*	*Electrical*	*aadhaarbhatia.99@gmail.com*	*9999864028*

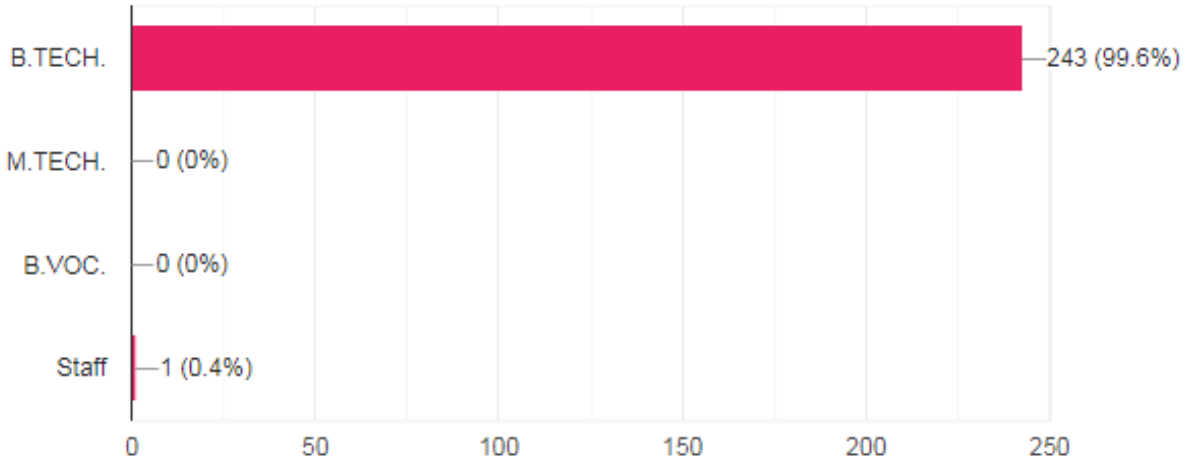
Anami Saggar	*166548*	*5*	*Mechanical*	*anami8711@gmail.com*	*8427392273*
Kapil Goyal	*1700867*	*5*	*Mechanical*	*kapil3012000@gmail.com*	*9149109091*
Shreshtha Goyal	*1700898*	*5*	*Mechanical*	*0612shreshthagoyal@gmail.com*	*8218991539*
Muskan Deura	*1700655*	*5*	*civil*	*muskan.deura02@gmail.com*	*9917133814*
Shubhangi	*1700900*	*5*	*Mechanical*	*shubhangigupta1828@gmail.com*	*8755569923*

(vii) General Entrepreneurial Tendency Test (GETT) has been conducted.

Fresh GETT has been conducted for 244 students in the current session.

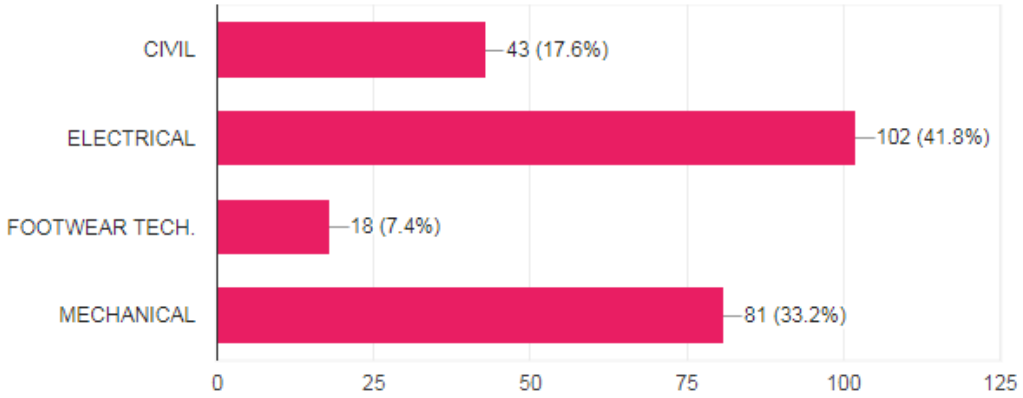
The test is open for further responses from students and faculty. Following images represents the summary of responses





Branch

244 responses



(viii) Motivational cum entrepreneurial awareness lectures and interaction sessions by the following experts:

a. Mr. Sameer Malhotra, entrepreneur, Springfeel Polyurithene foams, Chennai
b. Mr. Jwalant Mishra, NXP Semiconductors, Bangalore
c. Mr. T. Preetam Charan Anand, Texas Instruments, Bangalore
d. Mr. Ashish Sareen, Seimens, Mumbai
e. Mr. P.V.V. Ranganath, Xilinx, Hyderabad

Interactive session with Alumni/Entrepreneurs

Role of Coop Training in Career Planning and Attitude Required

Sameer Malhotra

Entrepreneur,
Springfeel Polyurithene Foams,
Chennai

A 1993 graduate in Electrical engineering and a first generation entrepreneur Sameer Malhotra is the Technical Director at Springfeel polyurethane foams Pvt ltd. He is responsible for overseeing the development and manufacturing of polyurethane foam for both Technical/Industrial and retail customers. He is proficient in strategic management of planning, organizing, directing and controlling the activities of all operation functions. He has been highly successful in setting up systems and procedures to achieve the organizations objective and ensuring statutory and legal compliance. He has very strong leadership quality with motivational management style and is a result-oriented achiever with excellent track record for identifying opportunities for accelerated growth.

During the interaction, Mr. Sameer Malhotra explained the importance of Coop training in future prospects in career, the importance of balanced outlook towards career opportunities that includes conventional Jobs as well as entrepreneurial opportunities. He cited from his own experience to explain the kind of challenges an industrialist faces in providing internship and what is expected by the intern. He assured that there are ample opportunities for every one provided one is good in his/her area of expertise.
He assured of his support not only for internship, job opportunities but also to mentor any innovative startup ideas. Mr. Malhotra went further and said he could finance some of the strartups if the plan has worth.
Students were very eager to understand the employer's point of view and had a very lively interaction.

Impromptu Interaction Session with successful Entrepreneur

Jwalant Kumar Mishra

Director,
NXP Semiconductors, Banglore
Mr. Jwalant Kumar Mishra was a passout from IIT Delhi in VLSI Design and is now involved in various entrepreneurial activities. His lecture was very lively and students were

extremely satisfied by the impromptu interactive session with Mr. Mishra.

His talk was though generic in nature, was an eye opener which touched upon various points like attitude towards life, importance of goals, persistence, etc. He explained the stress one has to face due to peer pressure. He also explained that one has to overcome such fears to realize his goals. In the end he stressed that it is the character of an individual that will shine in the long run. He also expressed his wish to help students in their entrepreneurial aspirations.

Students were motivated by speaker and hand fruitful interaction

(ix) Introducing more Entrepreneurship courses in the curriculum

It was proposed in the list of activities of DEI SUCCEED to enhance the entrepreneurial inputs to the students through increased inputs in the form of courses. In line with this, following two courses have been proposed. To enable students to pursue specific topics of this area, several online courses through NPTEL, SWAYAM were also proposed in the BoS. Following is the list of the same

Entrepreneurial courses included in the curriculum

A. Formulated and will be offered by the Faculty

ENTREPRENEURSHIP – I RDC681 Cr- 2

SYLLABUS

Unit 1- ENTREPRENEURSHIP AND SMALL SCALE INDUSTRIES

Concept of Entrepreneurship, Entrepreneurial Environment, Motivation & Innovation of Entrepreneurship, concept and significance of small scale industries, Entrepreneurship Development in rural areas, Women Entrepreneurship Development, Entrepreneurship in Agriculture, Village industries, KVIC.

Unit 2 - ENTERPRISE PLANNING

Forms of private sector enterprises a) sole trading concern b) Partnership c) Joint Stock Company d) co-operative society - Characteristics, features and registration procedure- Registration procedure under MSMED Act, Legal formalities expected to be complied by the entrepreneur to start enterprises, Recent Trends in Entrepreneurship Development, E-Entrepreneurship, Technopreneur, Virtual Marketing, Enlightened Marketing, Institutional finance to entrepreneurs, Role of Govt. and other financial & control agencies, Demand, Supply, nature of competition, Cost, pricing of products,

Unit 3 - PROJECT FORMULATION

Project - Meaning, Characteristics - phases of project - Stages of Project formulation -Project finance - Determinants of working capital - Operating cycle of working capital- Concept of working capital - Calculations working capital- Sources of finance - Types of costs - Break even analysis, problems- Ratio Analysis, current ratio, debt-equity ratio, debt service coverage ratio, profitability ratio, calculations - Return on investment - Cash flow statement- projected income statement- projected balance sheet.

Unit 4 - PROJECT APPRAISAL AND REPORT

Meaning and importance of project appraisal- Aspects of project appraisal, technical aspects, management aspects -environmental aspects-market aspects- Economic and financial aspects – Tools

of project appraisal - Payback method, calculations – NPV Method, Calculations - Profitability index - Internal Rate of Return- Meaning and significance of Project Report- Process of Project Report-Contents of Project Report- Performa of a Project Report- Preparation of a Project Report. Project Management with PERT/CPM

Unit 5 - ENTERPRISE MANAGEMENT

Meaning and Definition of Management- Importance of Management- Functions of Management-principles of management - Meaning and Definition of Marketing Management- Functions of Marketing Management- operations management, ISO

ENTREPRENEURSHIP – II RDC782 Cr: 3

SYLLABUS

Unit-1 Introduction of Entrepreneurship

Meaning and Importance of entrepreneurship, Factors influencing entrepreneurship, Entrepreneurial Motivation, & Creativity, Types of Entrepreneurs, New generations of entrepreneurship, Entrepreneurship.

Unit-2 Organization Assistance

Financial assistance by different agencies, Financial assistance to MSME, Act & Clearance, tender process, Quality Standards with special reference to ISO, Industries Scheme, agencies for industrial assistance, Applicability of Legislation, Rules And Legislation

Unit-3 Marketing Management

Markets & Demand Management, New Product Development, Marketing Research and Consumer Behaviors, Sales Management & Promotion, Product Pricing. Advertising & Branding. Intellectual Property Protection-Patents, Trademarks and Copyrights.

Unit- 4 Business Management

Introduction, Functions of Management, General Business Environment, Social & Ethical Responsibility of Business, Co-Operative Management,

Unit- 5 Financial Management

Accounting Process, Accounting Entry System, Balance Sheet, Financial Statement, Working Capital

Costing & Taxation

Costing, Marginal Costing, Central Sales Tax Act, Central Excises Act, VAT, GST-An introduction,

B. Online Courses

Courses proposed to be allowed for students to credit in the bracket of open electives

S.No.	Course Title	DURATION wks	Offered on
1	Entrepreneurship Essentials	8	NPTEL
2	Business Analytics For Management Decision	12	NPTEL
3	Infrastructure Planning and Management	12	NPTEL
4	Roadmap for patent creation	8	NPTEL
5	Innovation, Business Models and Entrepreneurship	8	SWAYAM
6	Patent Drafting for beginners	4	SWAYAM
7	Patent Law For Engineers And Scientists	12	SWAYAM
8	Legal Compliance for Incorporating Startup	4	SWAYAM
9	Product design and development	4	SWAYAM

In order to match the credits with those being run in the institute, it is proposed that courses with total duration of at least 12 weeks be considered equivalent to one open elective course.

Detailed Description of the courses are presented hereunder

Entrepreneurship Essentials

ABOUT THE COURSE:

The course provides foundational knowledge on various aspects of entrepreneurial venture creation and management during its life-cycle. It has been designed to address multidisciplinary audiences. The objective of the course is to teach key issues faced by entrepreneurs and managers at different stages of the life-cycle of an enterprise and is relevant both for aspiring entrepreneurs and for decision makers in established enterprises. Topics can be classified in some major themes such as: Making a choice to create an entrepreneurial venture, current trend of technology entrepreneurship, how to start a start-up, identifying opportunities, factors driving competitive advantages, organizational structure, basic knowledge of financial statements and project report, introductory knowledge on marketing management, human resource management, & strategic management, risk analysis, legal aspect of business, how to raise fund during life-cycle of a new ventures.

Business Analytics For Management Decision

ABOUT THE COURSE

Students can exposure on data analysis, modeling and spreadsheet use with BUSINESS ANALYTICS for DECISION MAKING. This course will be exclusively quantitative and an application to business/ management related problems. It is connected with problem sets and real life cases to know the relevance of a particular problem and the decision making thereof.

Infrastructure Planning and Management

ABOUT THE COURSE:

This course attempts to introduce students to 'real world' risks and challenges in managing infrastructure. After a brief introduction to the infrastructure planning process as well as the state of infrastructure across sectors in India, we systematically look at various risks that plague infrastructure projects. We then look at a variety of novel solutions or fixes that can help us execute infrastructure projects better. The curse is replete with real-world case studies and guest lectures to ensure that what is being discussed is practically applicable.

Roadmap for patent creation

ABOUT THE COURSE:

For every science and technology individual, or for any inventive mind, there is a possibility of creating novel product or process. This course will help such intellectual minds to identify and protect their intellectual efforts.This course is an introduction to one of the important types of intellectual property, patent. The course is a good blend of theoretical and practical aspects of patenting activity. The course is focused on inventor/researcher perspective with an objective how to generate a patent. This course provides various guidelines to

inventor/researcher to convert his research into patent. This includes various topics such as how to read a techno legal document (patent), how to use patent data for research gap analysis, how to identify potential patent, how to plan the patent filing activity, how to interact with patent attorney, how to use and maintain laboratory notebook and so on.

Innovation, Business Models & Entrepreneurship

ABOUT THE COURSE:

The course titled Innovation, Business Models and Entrepreneurship, is designed to give an in-depth understanding on various aspects of innovation, creativity, evolving business models, incubation and entrepreneurship. The course also includes sessions on blue ocean strategy and technology incubation which are proving as game changer in todays competitive scenario. Course also deals with role of IPR and IP management in innovation management. The course is a blend of theory and practice therefore this course does not require any prerequisite and will be useful to understand innovation and its applications in different spheres of development and growth.

Patent Drafting for Beginners

ABOUT THE COURSE:

Patent specifications — the documents which encompass the patent right in a technological invention — are techno-legal documents created at the interface of science and law. Unlike technical writing, patent law requires drafting patent specifications to satisfy certain requirements. This course is designed to enable beginners without any prior knowledge on patent drafting to draft patent specifications on their own. The course will cover the fundamental principles of patent drafting and discuss in detail the concepts in patent law in the context of patent drafting.

Patent Law For Engineers And Scientists

ABOUT THE COURSE:

The course shall give an in-depth understanding of patent law to engineers and scientists. This course will help person with a science background to understand the fundamentals of patent law, know the requirements of patentability, learn how to read and interpret patent specifications, analyze patent office procedures and court cases and develop the basic understanding for drafting a patent specification. This course will cover the syllabus of Paper 1 of the Patent Agent Examination conducted by the Intellectual Property Office, Government of India.

Legal Compliance for Incorporating Startup

ABOUT THE COURSE

Engineering start up is an area of interest to science and engineering students and the Government is also actively supporting this process. Business compliance requirement in India is very high. So it poses difficulty to the young entrepreneurs as to how and what form

of business organization to choose for their start-up. This course is aimed at educating the students in that direction.

Product design and development

ABOUT THE COURSE

It has been established worldwide that the most successful economies are based on innovation and creativity led entrepreneurship. The government is focusing on putting concerted efforts to produce job creators.

The current MOOC on Product Design and Development is conceptualized and planned in such a way that it helps both job creators as well as job seekers. The main objective of the course is to acquaint the learners/students with the practical knowledge regarding conceptualization, design and development of a new product. The need of a new product, the product life cycle, the product design process, the application of Value Engineering principles in product design, various product design tools such as CAD, DFM, DFA and DFMA have been explained with relevant and specific examples/ case studies. The concept of Ergonomics in context of the product design has been explained with the help of case studies. The fundamental concept of Rapid Prototyping as well the working principles of the basic rapid prototyping techniques has also been explained.

Collaborative Activities

Following is the list of Institutions and Organizations with which DEI has collaborated for various R&D, consultancy and Social Outreach activities

Research Collaboration

IIT Roorkee

University of Tromso, Norway

IST JNTU, Hyderabad

Oasis Fabrications, Yamuna Nagar

Consultancy Collaboration

Smart city Council, Agra

Social Outreach

RSTEAUI, RAJABORARI, MP

RS Sabha, Dayalbagh, Agra

Nagar Panchayat, Dayalbagh

Sevagram, Wardha

23. Co-curricular & Extra-curricular Activities

The following co-curricular and extra-curricular activities are conducted on regular basis apart from a compulsory credit based evaluation for all students. For each year of study there is a three credit course on CCA and is compulsory for all students. Students are evaluated on the basis of their participations in voluntary services, performance in games and sports, performance in literary activities, performance in cultural activities and their participation in District/Regional/State/National and International level events. In the past our students have excelled in Youth Parliament at National Level, Youth Festival in International Level and have also won several awards in various Technical Events. The following activities are regularly conducted in the Instituteand/or participated by students outside the institute.

- NSS Camps and Cleanliness Drives throughout the year.
- Special Annual Winter Camp.
- Sports, Cultural, Literary Activities,
- NCC,
- Annual Intra-Faculty and Inter-Faculty Cultural and Sports Competitions,
- Inter-University Youth Festivals,
- Model Parliament etc.
- Bi-monthly DEI News,
- Annual DEI Magazine,
- Student technical Newsletter.
- Wall magazines.
- Yoga and Karate Classes for girls.
- Inter-University English Drama Festival,
- Inter-University Hindi Drama Festival,
- Celebration of National Days,
- Open day (31st January),
- Founder's Day (20th December)
- Bhakti Sangeet,
- Yoga Day,
- Science Day
- Engineers Day
- Army Flag Day
- Communal Hormany Day
- Value Day (on Deepavali)
- Student Systems Conference

- Sci-Hi
- Teacher's Day
- Special events are organised on birth anniversary of renowned persons

The Institute organizes Cultural Activities regularly throughout the year for the all-round development of students. In addition to the compulsory component, competitions are organized at Faculty, Institute and Inter-Institute levels in different categories viz. Literary, Fine Arts, Dance, Dramatics and Music.

Students of the Institute have participated in several Zonal and National Youth Festivals and have won laurels for the Institute.

The Institute organizes Youth Parliament competition under the aegis of the Ministry of Parliamentary Affairs (Govt. of India). DEI has the honour of being National Winner two times and Runners-up one time in the competition.

The Co-curricular and Extra-curricular activities in which the students participated during last three years are as follows:

S. No.	Item
A	Competitions at Faculty Level
B	Competitions at Institute Level
C	Competitions at Inter-Institute Level on the theme "Quality & Values in Education"
D	Hindi and English Drama Festivals (Inter-Institute)
E	Teachers' day
F	Faculty Level and Institute Level Annual Prize Distribution Functions
G	Winter Training Camp
H	Youth Festivals (Competitions outside the Institute)

The calendar of Cultural, Literary, Dance, Theatre and Fine Arts Activities for the sessions 2018-19, 2017-2018 and 2016-17 are as follows:

A. <u>COMPETITIONS AT FACULTY LEVEL</u>

S. No.	Event	2018-19	2017-18	2016-17
1	Essay Writing (Hindi/English)	27.8.2018	09.8.2017	24.8.2016
2	Poster making & Cartooning	28.8.2018	12.8.2017	27.8.2016
3	Elocution (Hindi)	29.8.2018	16.8.2017	31.8.2016
4	Elocution (English)	30.8.2018	19.8.2017	3.9.2016
5	Mime & Mimicry	31.8.2018	23.8.2017	7.9.2016
6	Debate (Hindi)	6.9.2018	26.8.2017	10.9.2016
7	Debate (English)	7.9.2018	30.8.2017	14.9.2016

8	Skit	10.9.2018	6.9.2017	17.9.2016
9	On the Spot Painting & Collage	11.9.2018	9.9.2017	21.9.2016
10	Clay Modelling &Rangoli	12.9.2018	9.10.2017	24.9.2016
11	General Knowledge Quiz (Written)	17.9.2018	13.9.2017	28.9.2016
12	Spot Photography & One Act Play (Hindi/ English)	18.9.2018	4.10.2017	1.10.2016
13	Light & Classical Vocal Solo	19.9.2018	7.10.2017	19.10.2016
14	Bhakti Sangeet	24.9.2018	11.10.2017	22.10.2016
15	Light Vocal (Group), Classical Instrumental Solo (Percussion & Non-Percussion), Folk Orchestra	25.9.2018	14.10.2017	26.10.2016
16	Theatrical Script Writing (H/E)	26.9.2018	18.10.2017	29.10.2016
17	Western Vocal (Solo & Group)	3.1.2019	21.10.2017	7.1.2017
18	Folk/Tribal Dance (Solo & Group), Classical Dance (Solo)	4.1.2019	6.1.2018	11.1.2017
19	Satirical Creative Writing (Hindi/English/ Sanskrit) &Translation (English-Sanskrit, Sanskrit-English)	5.1.2019	10.1.2018	14.1.2017
20	Poetry Recitation (Self Composed) – (Hindi/English/ Sanskrit)	10.1.2019	13.1.2018	18.1.2017
21	Antakshari (Hindi/English/ Sanskrit)	11.1.2019	17.1.2018	21.1.2017
22	Dumb Charades	12.1.2019	27.1.2018	25.1.2017
23	Crazy Ideas (Hindi/English)	14.1.2019	3.2.2018	28.1.2017
24	Street Play (Hindi/English)	16.1.2019	5.2.2018	8.2.2017
25	Youth Parliament	17.1.2019	7.2.2018	10.2.2017

B. <u>COMPETITIONS AT INSTITUTE LEVEL</u>

S. No.	Event	2018-19	2017-18	2016-17
1	<u>Inter-Faculty Competitions Phase-I</u> Elocution, Essay, Debate, GK Quiz-Oral, Mime, Mimicry, Fine Arts, Theatrical Script Writing, One Act Play (Hindi)	29.10.2018	29.10.2017	6.11.2016
2	<u>National Education Day</u> Competitions on the occasion of Birthday of Maulana Abul Kalam Azad	11.11.2018	11.11.2017	11.11.2016

3	Inter-Faculty Competitions Phase-II Indian & Western Music Items, Dance, Dumb Charades, Satirical Creative Writing, Translation, Poetry, Crazy Ideas, Street Play and Antakshari	17.2.2019	11.2.2018	19.2.2017

C. COMPETITIONS AT INTER-INSTITUTE LEVEL ON THE THEME "QUALITY & VALUES IN EDUCATION"

S. No.	Event	2018-19	2017-18	2016-17
1	Poster Making & Cartooning	8.9.2018	21.8.2017	16.9.2016
2	Bhakti Sangeet (Devotional Music)	27.10.2018	16.10.2017	26.9.2016
3	Elocution (Hindi/English) (Quality & Values Day)	7.11.2018	19.10.2017	30.10.2016

D. INTER-INSTITURE HINDI AND ENGLISH DRAMA FESTIVALS

S. No.	Event	2018-19	2017-18	2016-17
1	English Drama Festival	12.11.2018 to 14.11.2018	10.11.2017 to 12.11.2017	10.11.2016 to 12.11.2016
2	Hindi Drama Festival	29.10.2018 to 31.10.2018	27.10.2017 to 29.10.2017	14.11.2016 to 16.11.2016

E. TEACHERS' DAY

Event	2018-19	2017-18	2016-17
Felicitation of Retired Teachers of DEI	5.9.2018	5.9.2017	5.9.2016

F. FACULTY LEVEL AND INSTITUTE LEVEL ANNUAL PRIZE DISTRIBUTION FUNCTIONS

Event	2018-19	2017-18	2016-17
Faculty Level Annual Function	4.2.2019	13.3.2018	27.2.2016
Institute Level Annual Function	2.3.2019	24.3.2018	9.3.2016

G. WINTER TRAINING CAMP

A number of students of the faculty of Engineering participated enthusiastically in the Winter Training camp organized in the Institute from 19th December 2017 to 25th December 2017. Some of them also played a key role as a member of the organizing team.

Event	2018-19	2017-18	2016-17
Winter Training camp	19.12.2018 to 24.12.2018	19.12.2018 to 24.12.2018	19.12.2018 to 24.12.2018

H. YOUTH FESTIVALS

Students of the Faculty of Engineering represented the Institute in various events in the North Zone Youth Festival and National Youth Festival during the last three sessions and bagged awards.

Some of the awards won by the students of Faculty of Engineering

2018-19

Inter-University North Zone Youth Festival

Western Instrumental (Non-percussion) – I

Inter-University National Youth Festival

Western Instrumental (Non-percussion) – II

2016-17

Inter-University North Zone Youth Festival

Instrumental Solo Non-percussion - III

Inter-University National Youth Festival

Instrumental Solo Non-percussion - III

2015-16

Inter-University Group Level Youth Parliament Competition

Divyanshi Malhotra - III

Harpreet Kaur - IV

Disha Saxena - IV

Inter-University National Youth Parliament Competition

Harpreet Kaur - I

Disha Saxena - II

Divyanshi Malhotra III

Inter-University North Zone Youth Festival

Spot Photography) - I

Inter-University National Youth Festival

Spot Photography - II

List of winners of cultural competitions are presented hereunder

RESULTS OF INTRA-FACULTY CULTURAL COMPETITIONS

ENGLISH ESSAY WRITING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	164045	SANKET UPMAN	B.Tech.	Third Year	Civil Engineering
II	136037	SHRESHTHA VERMA	B.Tech.	First Year	Electrical Engineering
III	113414	TANU CHATURVEDI	B.Tech.	First Year	Electrical Engineering

HINDI ESSAY WRITING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	164111	MOHIT KUMAR	B.Tech.	Third Year	Electrical Engineering
II	115464	DRISHTI BARANWAL	B.Tech.	First Year	Electrical Engineering
III	119377	DEEPSHIKHA SATSANGI	B.Tech.	First Year	Electrical Engineering

ENGLISH ELOCUTION COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	105677	MEHAR MISHRA	B.Tech.	First Year	Electrical Engineering
I	103694	AMI CHOPRA	B.Tech.	First Year	Electrical Engineering
II	112142	MEHAR BHATNAGAR	B.Tech.	First Year	Electrical Engineering

ENGLISH DEBATE COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	1700737	RISHABH SINGHAL	B.Tech.	Second Year	Electrical Engineering
II	105677	MEHAR MISHRA	B.Tech.	First Year	Electrical Engineering
III	103694	AMI CHOPRA	B.Tech.	First Year	Electrical Engineering
IV	102616	ARSH KR. GUPTA	B.Tech.	First Year	Electrical Engineering

HINDI DEBATE COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
IV	116929	SAURABH SATSANGI	B.Tech.	First Year	Mechanical Engineering

POSTER-MAKING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	1700882	RANI PANIT	B.Tech.	Second Year	Mechanical Engineering
II	113414	TANU CHATURVEDI	B.Tech.	First Year	Electrical Engineering
III	128569	TANU VERMA	B.Tech.	First Year	Mechanical Engineering
III	119377	DEEPSHIKHA SATSANGI	B.Tech.	First Year	Electrical Engineering

CARTOONING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	117986	KHUSHI VERMA	B.Tech.	First Year	Electrical Engineering
II	164207	AKANSHA AGARWAL	B.Tech.	Third Year	Mechanical Engineering
III	139389	KAMINI YADAV	B.Tech.	First Year	Civil Engineering

CLAY MODELING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	140051	NIDHI GOLA	B.Tech.	First Year	Civil Engineering
II	117986	KHUSHI VERMA	B.Tech.	First Year	Electrical Engineering
III	139389	KAMINI YADAV	B.Tech.	First Year	Civil Engineering

RANGOLI COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	128569	TANU VERMA	B.Tech.	First Year	Mechanical Engineering
II	119377	DEEPSHIKHA SATSANGI	B.Tech.	First Year	Electrical Engineering
III	112142	MEHAR BHATNAGAR	B.Tech.	First Year	Electrical Engineering

ON THE SPOT PAINTING COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	128569	TANU VERMA	B.Tech.	First Year	Mechanical Engineering
II	123439	DEEPSHIKHA KUMARI	B.Tech.	First Year	Civil Engineering
III	108770	ANSHUL BHOLA	B.Tech.	First Year	Electrical Engineering

COLLAGE COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	112142	MEHAR BHATNAGAR	B.Tech.	First Year	Electrical Engineering
II	119377	DEEPSHIKHA SATSANGI	B.Tech.	First Year	Electrical Engineering
III	139389	KAMINI YADAV	B.Tech.	First Year	Civil Engineering

SPOT PHOTOGRAPHY COMPETITION

POSITION	R/A. NO.	NAME	CURRICULUM	YEAR	BRANCH
I	1700746	SHASHANK SHEKHAR UPAD	B.Tech.	Second Year	Electrical Engineering
II	101550	A. DAYASINDHU	B.Tech.	First Year	Electrical Engineering
III	130839	VISHAL VISHWAKARMA	B.Tech.	First Year	Civil Engineering

LIGHT VOCAL SOLO COMPETITION

POSITION	R.NO.	NAME	CURRICULUM	YEAR	BRANCH
I	146440	C.JYOTHIKA	B.Tech.	Third Year	Electrical Engineering
II	1700841	ACHINT SAXENA	B.Tech.	Second Year	Mechanical Engineering
III	1700676	SUBHAM KUMAR	B.Tech.	Second Year	Civil Engineering

BHAKTI SANGEET COMPETITION

POSITION	R.NO.	NAME	CURRICULUM	YEAR	BRANCH
I	146440	C.JYOTHIKA	B.Tech.	Third Year	Electrical Engineering

LIGHT VOCAL GROUP SONG COMPETITION

POSITION		NAME	CURRICULUM	YEAR	
I		C.JYOTHIKA, SUMIRAN GUPTA, ARTI SATSANGI, LAVI SRIVASTAVA, DEEPSHIKHA PANDEY, ANSH AGARWAL	B.Tech.	Second & Third Year	

II		ACHINT SAXENA, SUBHAM KUMAR, PREETI SWARUP, AADHAAR BHATIA, ARSH DEWAN, TAMANNA SRIVASTAVA, SHRADHA SETH	B.Tech.	Second Year	
III		DEEPSHIKHA SATSANGI, MAHIMA, MAHIMA KANT, P. HARSHITA, RATNANJALI SATSANGI, KHUSHI VERMA	B.Tech.	First Year	

CLASSICAL INSTRUMENTAL SOLO COMPETITION

POSITION	R.NO.	NAME	CURRICULUM	YEAR	BRANCH
I	146440	C.JYOTHIKA	B.Tech.	Third Year	Electrical Engineering

G.K. WRITTEN QUIZ TEST

POSITION	R.NO.	NAME	CURRICULUM	YEAR	BRANCH
I	154156	PRATYUSH PRIYADARSHI	B.Tech.	Final Year	Mechanical
II	164045	SANKET UPMAN	B.Tech.	Third Year	Civil
III	1700853	ASHISH AGARWAL	B.Tech.	Second Year	Mechanical
IV	154144	KRISHNA MURARI PAL	B.Tech.	Final Year	Mechanical
V	154174	SIDHARTH SHARMA	B.Tech.	Final Year	Mechanical
VI	146224	VAIBHAV VERMA	B.Tech.	Third Year	Civil
VII	1801603	AGAM SWAMI	B.Tech.	First Year	Electrical
VIII	164002	ADITYA KUMAR	B.Tech.	Third Year	Civil
IX	1801741	ANKIT KUSHWAHA	B.Tech.	First Year	Mechanical

FACULTY OF ENGINEERING, DEI

Results of Intra-Faculty Competitions: Phase-II

Please note that the Intra-Faculty Cultural Competitions (Phase-II) are organized from 3rd January to 16th January 2019. **The Results of competitions are as follows:**

S.No.	Event	Conveners	Results/ Winners name
1.	Western Vocal (Solo)	Sh. V. Prem Prakash (I/C) Sh. K. Janardhan	**First position: Ayushi Senger, (2nd, EE)** **Second position: Achint Saxena, (2nd, ME)** Third position: Abhishek Pandey, (3rd, BVoC RE)
2.	Western Vocal (Group)	Sh. V. Prem Prakash (I/C) Sh. K. Janardhan	**Tamanna Srivastava , (2nd, EE)** **Aarti Satsangi , (2nd, EE)** **Achint Saxena, (2nd, EE)** **Shubham Kumar (2, CE)** **Abhishek Pandey**
3.	Folk/Tribal Dance (Group)	Sh. Anurag Gupta (I/C) Sh. Manoj Kumar	**Niharika Gupta, B.Tech(2nd, EE)** **Sumiran Gupta, B.Tech(2nd, EE)** **Suml Sinha, B.Tech(2nd, EE)** **Kajal Jain, B.Tech(2nd, EE)**
4.	Classical Dance (Solo)	Sh. Anurag Gupta (I/C) Sh. Manoj Kumar	**Pratiksha Kumari- B.Tech(2nd, EE)**
5.	Satirical Creative Writing	Sh. Atul Suri (I/C) Sh. Amol Gupta	Rohit Upadhyay, Hindi, 2nd yr FWT - Consolation prize. Sumit Kumar, English, 2nd Yr FWT - Consolation prize.
6.	Poetry Recitation (Self Composed) – (Hindi)	Sh. Gaurav P. Rana (I/C) Dr. Shubho Upadhyay Dr. K. Srinivas	**1st Akshit Sharma BTech (Mech) 2nd Yr** **2nd Sachin Yadav BTech (Mech) 2nd Yr** 3rd Srajit Sharma BTech (Mech) 2nd Yr
7.	Poetry Recitation (Self Composed) – (English)	Sh. Gaurav P. Rana (I/C) Dr. Shubho Upadhyay Dr. K. Srinivas	**1st Anshul Sharma BTech (Mech) 2nd Yr** **2nd Arti Patange BTech (Civil) 2nd yr** 3rd Tanvi Kumari BTech (Electrical) 2nd Yr
8.	Antakshari (Hindi/English/ Sanskrit)	Dr. G.S.S. Babu (I/C) Sh. R.C. Gupta	No Entry found
9.	Dumb Charades	Dr. Ankit Sahai (I/C) Dr. Ashok Yadav Sh. Anami Saran	**I Position** **Anjul Kumari - Civil - 1801756** **Harshita Singh - Mechanical - 1801756** **Isha Jain - Civil - 1801756** **P. Harshita - Electrical - 1801654** **II Position** Priyanshi Dubey Soumya Sharma Syreyanshi Pathak Tanushka Bhargave **III Position** Bhoomika Gautam - Electrical Shreshtha Verma - Electrical Deepika Verma - Mechanical Shubhi Agarwal - Civil
10.	Crazy Ideas (Hindi/English)	Dr. Ashish Saini (I/C) Mrs. Karishma Yadav	No Entry Found
11.	Street Play (Hindi/English)	Dr. Aditya (I/C) Dr. Manoj Dixit Sh. Ishant Singhal	No Entry Found

Participation in Inter faculty competitions will be as per following scheme:
Solo Event: first and Second position holders. **Group event**: winner team at position one will represent faculty.
All the first and second position holders will take part in various inter faculty competitions on **17.02.2019 (Sunday).**

Dean
Faculty of Engineering, DEI

Financial Details

Application- Header

Current Application Number:	1-4260112992
Permanent institute Id:	1-482451854
Current Status:	EOA Recommended by Council
Name of Institution/University/Department:	DAYALBAGH EDUCATIONAL INSTITUTE
Academic Year:	2019-2020
Overall Deficiency(Y/N):	N

Financial Details

Income			
Income From Central Govt:	0	**Income From UGC**:	482,720,000
Income From State Govt:	179,404,000	**Income From Other Bodies**:	0
Income From Student Fees:	49,580,000	**Income From Other/ Internal Revenue**:	103,676,000
Income From Donations:	48,336,000		
		Total Income:	863,716,000

Expenditure			
Salary Teaching Staff:	413,300,000	**Equipment**:	21,888,000
Remuneration to Visiting/Guest:	62,000	**Building Maintainance**:	4,101,000
Salary Non-teaching Staff:	165,210,000	**Other Expenditure**:	106,854,000
Library:	387,000	**Total Expenditure**:	711,802,000
		Surplus / Deficit:	Y

Financial Information-TEQIP-III

Head of Expenditure	Project life allocation	Expenditure from inception till 31.3.2019	Expenditure in Q1 of FY 2019-20	Expenditure in Q2 of FY 2019-20 (Expected)	Expected Cumulative till Q2 of 2019-20
Procurement	600	109.04	50.96	197.00	357.00
Academic	300	109.4	28.60	45.00	183.00
IOC	100	14.06	7.94	04.50	26.50
Total	1000	218.89	87.50	246.50	566.50

Departments' Profile, Infrastructure & Facilities

The departments of the faculty have been active in various activities that emphasises research, academics, Co-curricular and extracurricular activities, achievements of faculty and students etc.

These have been presented in the present section by reports of individual departments

Faculty of Engineering

AICTE Approved, DST FIST, UGC SAP, TEQIP-III Supported, NIRF Ranked

Brief Profile & Progress Report (2013-2019)

Faculty Programs

Programmes (prior to 2013)

1. B.Tech. (Mechanical, Electrical)
2. M.Tech. – Engineering Systems (FT & PT)
3. Ph.D. - Mechanical Engineering (FT & PT)
4. Ph.D. - Electrical Engineering (FT & PT)

New Programmes (since 2013)

1.	B.Tech. – Civil	2013
2.	B.Tech. – Footwear	2014
3.	B.Tech. Part Time – Electrical	2014
4.	B.Voc. – Renewable Energy	2015
5.	B.Voc. – Automobile	2015
6.	B.Voc. – Water, Sanitation & Solid Waste Management	2015
7.	B.Voc. – Digital Manufacturing	2018
8.	B.Voc. – AI and Robotics	2018
9.	M.Voc. – Renewable Energy	2017
10.	M.Voc. – Automobile	2017
11.	Modular course – Solar Power Technician	2016

VISION

To become a top teaching-cum-research Faculty through an exemplary system of education leading to entrepreneurship, innovation, quality and values

MISSION

To create an environment for development of students as total quality persons, endowed with super consciousness, super intelligence, super human, super connectivity, sensitivity to values and quality, who will render selfless service in nation building.

Brief Profile

- **Year of Establishment**
  - **1950 (Agra University)**
  - **1981 (DEI)**

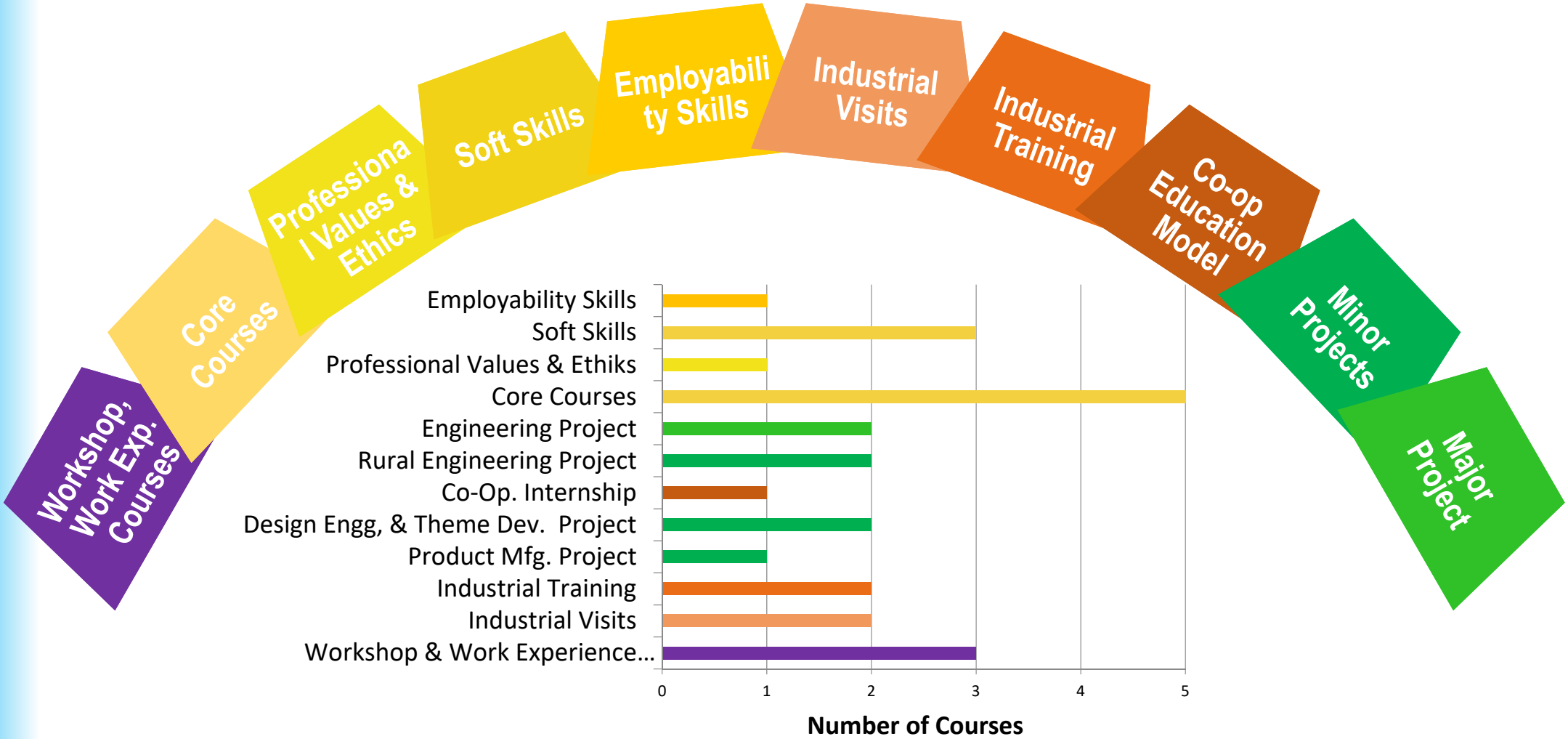
- **Teaching Staff**
  - ***All PhDs except 14 pursuing Ph.D.***
  - ***Attrition Rate: Close to 0%***

Designation	No.
Professors	12
Associate Professors	**5**
Assistant Professors	25
Emeritus, Adjunct Professors & AICTE-INAE Distinguished Visiting Professor	**25**
Total	**70**

- **Non-Teaching Staff : 70**
- **No. of Students (1716) : Male: 1313 Female: 403**

(incl. B.Voc., M.Voc., M.Tech., PT)

Activities with direct bearing on Employability / Entrepreneurship / Skill development



Co-Op Training Partners

Volkswagen
FIAT
HONDA
MARUTI SUZUKI
TATA MOTORS
NEW HOLLAND
Cummins
JSW
ESSAR STEEL
FEDERAL MOGUL
Subros
DELHI METRO
ATV PROJECTS INDIA LIMITED
TEXAS INSTRUMENTS
Hindustan Shipyrad Limited
Jamna Auto Industries Ltd.
ipgcl Indraprastha Power Generation Co. Ltd.
POLYPLEX
Cognizant
ACE
FSC
SUNSURE Get Sun Assured. Get SUNSURE.
Schlumberger
INDIAN INSTITUTE OF TECHNOLOGY DELHI
पावरग्रिड Power Grid Corporation of India
NXP
बी एच ई एल BHEL
SIEMENS
torrent POWER
CADENCE
एन बी सी सी NBCC A Navratna CPSE
Schneider Electric
TATA CONSULTANCY SERVICES
KEYSIGHT TECHNOLOGIES Unlocking Measurement Insights for 75 Years
UPPCL
Lucy Electric
HCL

Societal Contributions

National Building

- B.Voc. Courses, Skill Development Certificate Courses and Training Programs
- Supernumerary seats - Prime Ministers Special Scholarship Scheme (PMSSS) to J&K Students
- Development of Virtual Labs
- Conferences and Workshops

Societal Contributions

Contribution to the Vision of DEI

A major focus of DEI is upliftment of the disadvantaged in society

- **Education and Development Initiatives in Remote Villages across India**
- **Rural and Social Service, Ethics and Value based courses**
- **Community Outreach Program by Departments**

  A. Solar Agriculture Farm

  B. Installation of Solar Systems

  C. Smart City Project

  D. Audit Reports and Project Reports for Various Initiatives

Value Systems and Etiquettes

Moral and Spiritual Development

- Learning Enrichment Workshops
- Compulsory core courses on Comparative Study of Religions, Indian culture, etc. for all UG Students
- Extra curricular courses on languages, soft skills, etc.

Value Systems and Etiquettes

Underprivileged Sections

- Active contribution in the Microsoft Harisal Project under Digital Village initiative of Government of Maharashtra
- Educational, social and development activities at
  A. Rajaborari, Madhya Pradesh
  B. Murar, Bihar
  C. Kurnool, Andhra Pradesh

Infrastructure

Living Laboratories

- There are a number of living laboratories in the Engineering Faculty
  - Solar Power Plants – B.Voc. RE courses
  - Construction Materials Testing – Civil Engineering Labs
  - Mechanical testing of materials – Mechanical Engineering Labs
  - Electrical Testing – Electrical Engineering Labs

Student Support

- Earn while you Learn – PG and Research students who do not get scholarship are provided facilities to earn by taking up assistantships, etc.
- GATE coaching + fees, Employability skills programs, Financial support during training and projects, etc.

Future Plans

1. *Lay emphasis on Innovation, Incubation and Entrepreneurship* and frugal innovation anchored in the principle of achieving more with less.
2. *To germinate a number of Significant Start-ups in Engineering.*
3. Providing opportunities to the students to complete Education with Job.
4. To obtain NBA Accreditation for 3 departments by 2020.
5. To increase R&D Presence with national and international collaborations through Active MoUs with institutions of higher learning.

THANK YOU

Departmental Profile of Civil Engineering

- Teaching Staff : 15
- No. of Students : 265
- Teacher-Student Ratio : 1:17

Women Enrolment : 31.7 %

Reservation : As per Govt. norms

Year of Establishment : 2013

Designation	No. of Faculty
Professors	1
Assistant Professors	10
Visiting Faculty	4
Total	15

https://www.dei.ac.in/dei/engineering/files/Civil%20Engineering3-10-2017.pdf

Curriculum Workshop in Civil Engineering, August 2014

Academicians and industrialists participated in the workshop

Discussion held during the workshop

Civil department was established in 2013. Thereafter a curriculum workshop was held in August, 2014 for refinement of the curriculum. Academicians from the reputed institutes and industrial experts participated in the workshops. (IITD, SPA Delhi, IITR, Everest. PWD etc.

Civil Engineering Staff and Students after a Seminar at International Guest House of DEI

Awards, Recognitions for Staff and Students

Mr. Ishant Singhal

- **Director's medals** in B.Tech. 2015 & CRC and CEC 2015
- **Ganga Devi and Khemchand Award** for securing Highest CGPA in M.Tech. (Atmospheric Science) 2017 at IIT Delhi.

Dr. Tilak Joshi

- **DST-SERB Young Scientist Award 2015**
- **International Travel Award,** DST-SERB.
- **Material Society of India Best Poster Award 2013**

Faisal KM

- **Kerala PWD Award for Best B.Tech. Thesis, 2013**

Student Awards and Recognitions

- ***mSupply offered Rs.10,000 internship to each Student for Co-op 2017.***
- ***A student (Mr. MAN SINGH) has been placed in the company (RRA Project Management Pvt. Ltd.) in which he did his co-op training in 2018.***
- ***A student (Mr. SAHIL GAUTAM) has been offered co-op training with Rs. 8,000 stipend in 2019***

3. Research, Innovation and Extension

Publications Profile

- *Journals* : 28 (2013-2019)
- *Intl./Natl. Conf. Proc.* : 03 (2013-2019)

Research Citations

- *Journals* : 12 (2013-2019)

Organization of Scientific Events

- *National Conferences/Workshops/Seminars* : 7

(3 seminars by UltraTech Cement, JK Cement
3 Workshops by JNTU, Hyderabad,
1 Workshop on Bamboo Structures)

Research, Innovation and Extension

Projects and Grants

Funds Generated from Extra-Mural Projects	Rs. 6 Lakhs
Number of New Projects sanctioned	3 (Rs. 44.47 Lakhs)
Funding Agencies	NPIU (TEQIP)
Major Funding : TEQIP	40 lakhs

Consultancy

Organizations	Funds Generated (in Lakhs of Rupees)
Railways, Roadways & Local Engineering Firms (Civil)	27

Infrastructure and Learning Resources

New Facilities/Labs./Major Equipment Added

- ***Structural Analysis Laboratory***
- ***Soil Mechanics Laboratory***
- ***Concrete Technology Laboratory***
  - ***Computerised UTM***
  - ***Self compacting concrete test apparatus***
- ***Transportation Lab***
- ***Geomatics Lab***

Student Support and Progression

- ***Our students have scored more than 99 percentile in GATE – 2017, 2018, 2019***
- ***During 2018 and 2019 our students have found a place among 50 Civil Engineering students selected across the country by L&T***
- ***Placement:***

Batch Year	Participated	Students Placed
2016-17	59	30
2017-18	60	15
2018-19	60	18

Companies: L&T, TCS, Everest Industries, Head Strong, HCL Tech., Torrent Power Agra, PNC, mSupply, SunSure, Prism Cement, Tata Projects

Future Plan of Action

Vision – 2031

S. No.	Important Milestone	Timeline
1.	NBA Accreditation	2020
2.	100% GATE Participation	2020
3.	90% Placement	2022
4.	5 Startups	2030
5.	National Recognition in Green Building Technologies	2031

THANK YOU

Department of Electrical Engineering

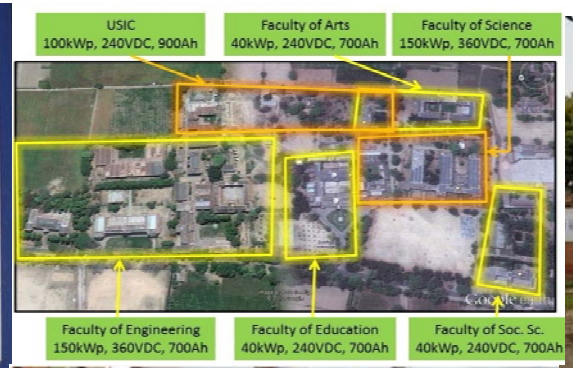
Faculty of Engineering

2013-2019

A Brief Profile and Progress Report

Department Website

https://www.dei.ac.in/dei/engineering/index.php/2012-12-08-09-16-45 /electrical-engg



Research Projects and Grants

Annual Budget of Department	
Maintenance Budget	Rs. 2.5 Lakhs
Funds Generated from Consultancy	Rs. 22.5 Lakhs
Number of Projects Completed	No. 11 (Rs. 1036 Lakhs)
Number of Projects in Progress	No. 4 (Rs. 508 Lakhs)
Major Funding Agencies	UGC, AICTE, MHRD, DST, DRDO, ASCL

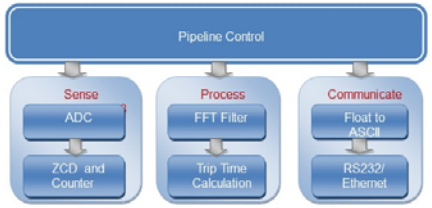
Sl. No.	Agencies	Funds (Rs. Lakhs)
1	Annual Maintenance Budget Allocation	2.50
2	UGC SAP	44.50
3	DST FIST	126.00
4	Sponsored Research Projects (DST, UGC, AICTE, ADRDE)	196.50
5	TEQIP (2017-20) (20% of total grant)	200.00
6	MHRD-NMEICT	730.00
7	DST-Mission Innovation Project (DEI-IITR-Tromso, Norway)	234.00
	TOTAL	**1533.50**

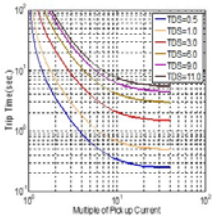
S.N.	Item	Number
1	Journal Publications	97
2	Citations (since 2013)	2150
3	Conference Publications	50
4	Books/Chapters	7
5	Ph.D. Awarded	20
6	Ph.D. ongoing	12
7	Patents awarded	1
8	Patents applied for	2
9	Invited Talks (Abroad)	15
10	Invited Talks (India)	105

Publications in high impact factor journals
Maximum IF- 7.11
Minimum IF – 0.86

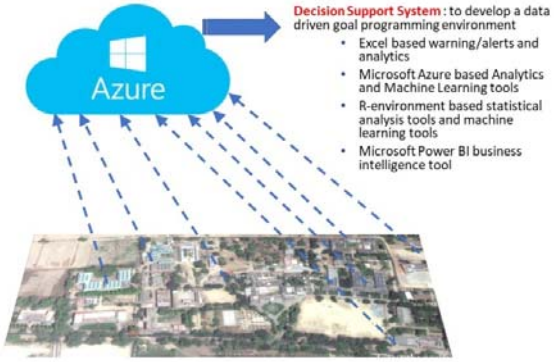
Thrust Areas

a. Quantum & Nano Computing
b. Consciousness Studies
c. AI & Robotics
d. Soft Computing
e. Smart Renewable Energy Micro Grids
f. Image Processing
g. Smart Agriculture
h. Electrical Machines & Power Systems





$$t = TDS\left(\frac{A}{M^{\rho}-1} + B\right)$$



International Research Collaborations:

International Research Collaboration with Kiel University, Germany

- Vibrant research collaboration with Discrete Optimization Group of Kiel University
- 2 jointly supervised PhDs completed, 1 ongoing
- Several joint research publications in journals and conferences
- Indo-German Workshop on “Engineering and Analysis of Evolutionary Algorithms” in 2013
- One DST-DFG project successfully completed. Four visits by German researchers to DEI in the project and four by DEI faculty to Kiel. Faculty member also invited to attend Workshop on “Algorithms for Big Data” at TU, Dortmund
- One DST-DAAD project ongoing, One visit by DEI faculty to Kiel University in 2019. Three more proposed.

- Participation in “The Science of Consciousness” Conferences – Arizona, USA, 2017 , Interlaken, Switzerland, 2019
- **International Co-op training under TEQIP-III (MITACS) (USD 4000 Assistance to each)- Two students in 2018 and one in 2019**
- Four students and a mentor were sponsored for a 5 day visit to Mitsubishi Industries, Japan under MoU.
- **Joint DST Funded R & D project on Solar Agri Farm with IITR and Univ. of Tromso, Norway-2018**
- **Six of the 2019 graduates have registered for higher studies abroad**

Undergraduate Research

- Innovative Student Project Award 2017 for B. Tech. Major Project on, "Study of Opto-genetic Control of Neuronal Signalling", by the Indian National Academy of Engineering.
- Several papers published in International Journals in 2016, 2017 & 2018
- Student membership of Professional bodies : IEEE, IEI, SSI, ACM
- Young Scientist Awards at SSI Conference: 2013-2018

Regular participation and paper presentation in prestigious National and International Conferences

- The Science of Consciousness- Dayalbagh:2013, Arizona:2014, 16, Helsinki:2015, San Diego:2017
- International School on Quantum & Nano Systems QANSAS
- National Systems Conference: 2017
- IEEE R10 Humanitarian Technology Conference 2016
- Conference on Value Education 2015 Dayalbagh
- Indo-German workshop on Research and Education Connect, 2015
- Indo-German workshop on Engineering and Analysis of Evolutionary Algorithms, 2013
- Paritantra – students winning best paper awards

Students' Achievements at National Level

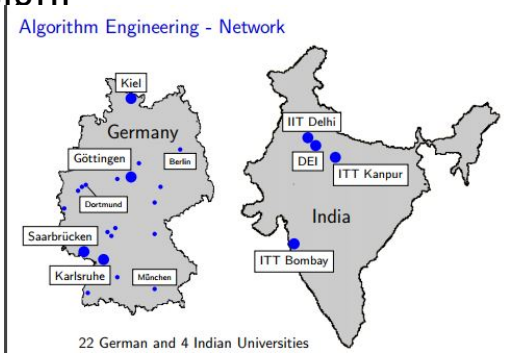
1. **Second PRIZE (Rs. 2.5 Lakh), Students' Innovation Pavilion**, GRIDTECH 2015:5th International Exhibition and Conference on April 8-10, **2015**.
2. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup **2016** :
3. Participation in **Rashtrapati Bhawan Code for India Hackathon for Social Innovations** held at President's Estate, New Delhi, India (March 2016)
4. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup **2018** .
5. **Champion 2017 : Best Solar Skills Training Institute,** Renewable Energy India Expo, September 21, 2017, Greater Noida.

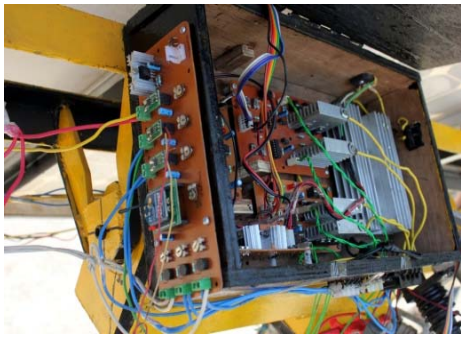
8. **Best Graduate Engineer Trainee/ Best New Comer/ Star Performer of the Year/ Best Analyst/ Best Team** at Maruti Udyog, HCL, TCS, ST Microelectronics, Accenture, ACC Ltd., Siemens India
9. **Prizes won** at National Level Essay Writing
10. **First Position** in Solar Light Maintenance Challenge at Sigma Summit-2019.

12. **Innovative Automation product** developed by Interns under Make in India, at JSW Energy for hazardous pipe line maintenance in 2019 was appreciated

Collaboration with Industry

1. Future Ocean Project Europe Cluster of Excellence 2012,13,14,16 (one month each year)
2. BHEL, Bangalore
   - Design and deployment of 700 kWp Distributed SPV Microgrid in the institute with BHEL
   - 25.5 kWp SPV system in Satsang Hall
   - R&D in optimal sun tracking and string monitoring with BHEL
   - Solar Agriculture Farm Prototype: Multiple land-use model accommodating 50 solar panels at 16’ height with optimal sun tracking
3. Cadence Design Systems, USD 25,000
4. MEAD systems, Singapore
5. Testing/Calibration facility for industries
6. Technical Vetting of AGRA SMART CITY Proposals:2018 onwards: Rs. 17.85 Lakhs



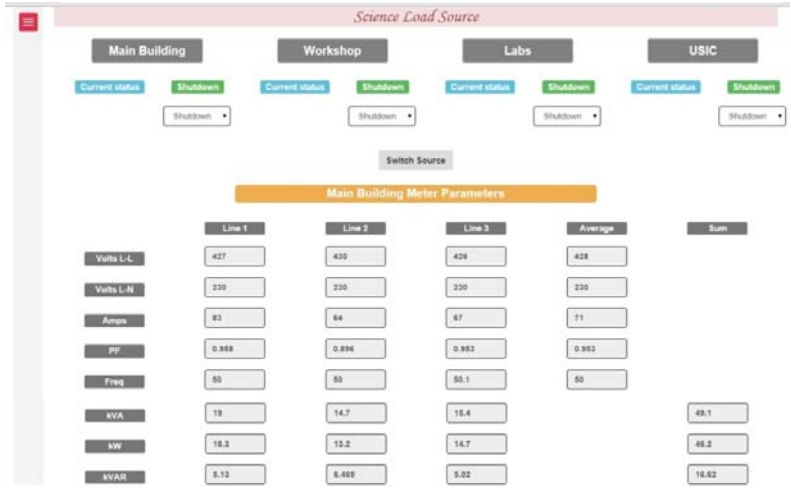


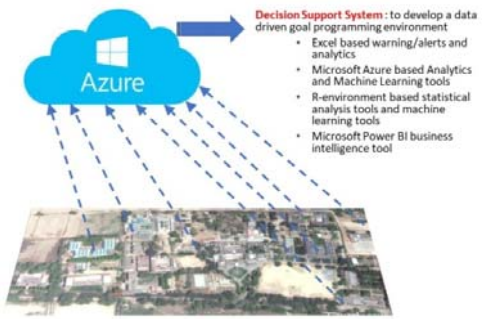
Community Outreach Activities

1. Preparation of DPRs Rajaborari Estate
2. Installation and maintenance of solar systems at DEI and its ICT Capmuses
3. Maintenance of electrical equipment of Saran Ashram Hospital, Agriculture Farm, Electricity & Water Department of Dayalbagh
4. Deployment and maintenance of solar system at Satsang Hall, Dayalbagh
5. Design and development of Light & Sound show and Musical Fountain synchronized with lights and audio.
6. Conversion of a Diesel van in to Solar Electric Van
7. Energy audit of all the residential quarters of Dayalbagh for Dayalbagh Nagar Panchayat.
8. Active role in the award of “Green Campus” status to Dayalbagh Nagar Panchayat by Ministry of New & Renewable Energy, GoI
9. Active contribution in the Microsoft Harisal Project under Digital Village initiative of Government of Maharashtra
10. Training of electrical staff of Essential Services, Dayalbagh
11. Maintenance of Sewage Treatment Plant, Dayalbagh
12. Maintenance and operation of Gasifier at Dayalbhandar

Awards and Recognitions : Faculty

1. AADEIs' Chair of Excellence in Quantum Information and Consciousness
2. SSI Life Time Achievement instituted by Systems Society of India 2016
3. R.K. Varshney Award instituted by System Society of India, 2013, 2016
4. National Award for concentrated solar technologies, Ministry of New & Renewable Energy, GoI. 2016
5. State Energy Conservation Awareness Award for the year 2016,2017 & 2018
6. Best Solar Skill Training Institute-2017
7. DST R&D project titled "**Design & Development of a Smart Micro Grid in Dayalbagh Educational Institute**" was selected as one of the success stories of the country and included in the report of Science & Technology Minister for presentation during the meeting of Mission Innovation, a global initiative of 22 countries and European Union at Beijing, June 2017.





Conferences & Seminars organised:

1. Seminar cum Workshop on Campus Solarisation, MTV Puram, 5th October, 2013
2. Indo-German workshop on Engineering and Analysis of Evolutionary Algorithms-EAEA-13, 2013
3. National Conference on Fast Forward with Solar Mission: DEI Distance Education Centre, MTV Puram, January 20-21, 2014
4. National Workshop on Solar Photovoltaic Power Plants: Opportunities & Challenges, Kochi, 20-21 March, 2014
5. Faculty Development Programme on Solar Photovoltaic Energy Technology, MTV Puram, 2014.
6. Indo-German workshop on Research and Education Connect, 2015
7. IEEE R10 Humanitarian Technology Conference, DEI, Dayalbagh, December 2016
8. National Systems Conference, NSC-2017 1-3 Dec. 2017
9. Good Governance Workshop- 2018
10. International School on QUANSAS – 2013 – 2018
11. Advances in Mathematical Sciences & Applications, April 2019

Department’s contribution to core courses

- Members of the Department contributes to conducting of Agricultural Operations, Social Service
- Department offers four Work experience courses
  - EEW401 W.E.-Radio and T.V. Repair
  - EEW402 W.E.-Repair of Electrical Equipment
  - EEW403 W.E.-Printing Techniques
  - EEW404 W.E.- IOT and Microcontrollers
- Members of Department are co-ordinators of three B.Voc. courses and a certificate course
  - B.Voc. AI & Robotics
  - B.Voc. Dairy Technology
  - B.Voc. Renewable Energy
  - Certificate Course on Solar Technician
- Various responsibilities carried out by members of the department

Faculty Level	Institute Level	Outside the Institute
TEQIP Director TEQIP Coordinator Startup cell Coordinator Advisor, Institution of Engineers Coordinator, Placement Cell Members of different faculty committees	Dean, R&D Chairman, Arbitration committee Secretary, Advisory Committee on Education Coordinator of IIPC Coordinator of Cell for differently abled students Members of different Institute committees	Members of selection committees Members of Board of Governors

Future Plan

1. **Aligning Research areas into Nine Focussed Research Divisions specially related to technologies identified in Vision 2031**
2. **Enhance R & D Activities for building the economy through research and frugal innovation anchored in the principle of achieving more with less.**
3. **Enhancing departmental activities contributing towards Sigma Six Q-Vs vision**
4. **Keep curriculum updated for Physical, Mental and Spiritual Development of all Stakeholders**
5. **More outreach activities with the objective of reaching the last, the least, the lowest and the lost**
6. **To obtain NBA Accreditation of B Tech Electrical Engineering Program: 2019 (Peer team visit is expected in September, 2019)**
7. ***To germinate a few Significant Start-ups in Engineering and Lay emphasis on Innovation, Incubation and Entrepreneurship***

Thank you

A Brief Profile and Progress Report

DST FIST Supported
UGC SAP Supported
AICTE Approved
NIRF Ranked

Department of Mechanical Engineering
Faculty of Engineering
2013-2019

Department Website
https://www.dei.ac.in/dei/engineering/index.php/2012-12-08-09-16-45/mechanical-engg

Highlights of the Mechanical Engineering Department

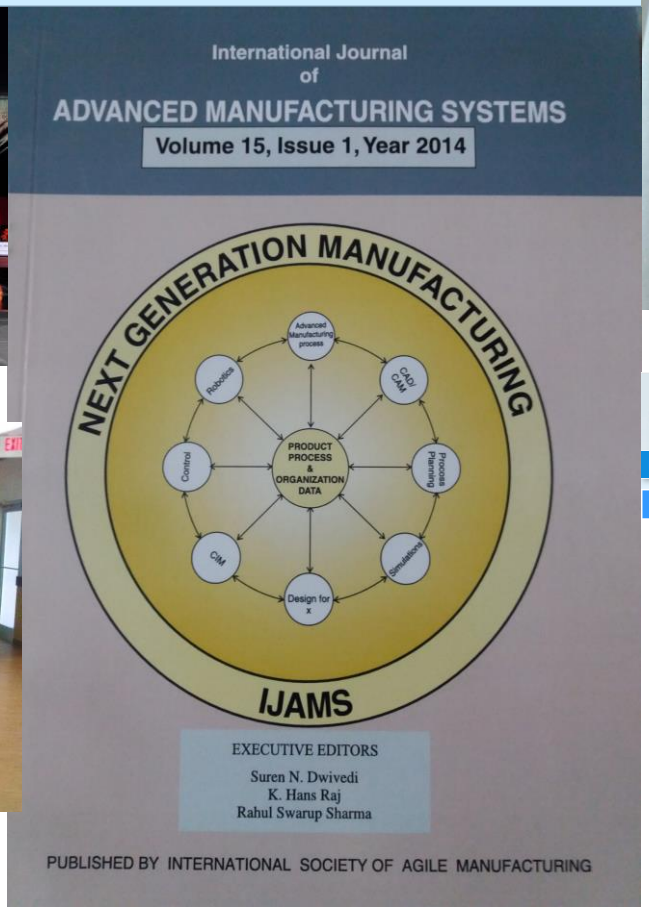
Success in National Competitive Exams in last 5 yrs

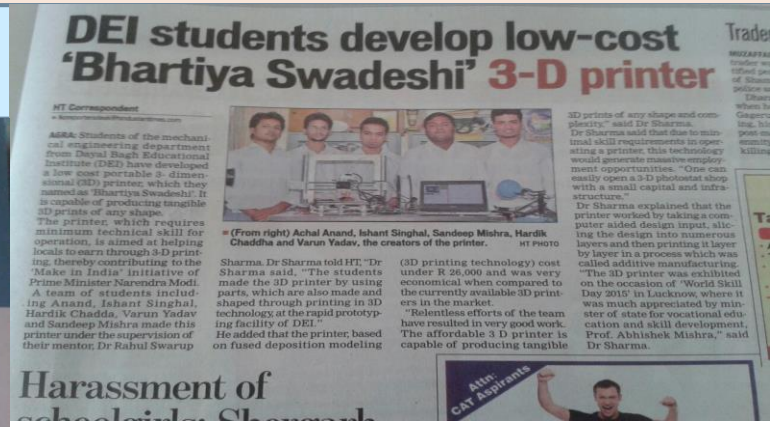
GATE : 109 in number with Highest percentile 99.9 Every Year

Campus Placement is ~ 90%

ISTE AWARD to Prof. Ranjit Singh

LIFETIME ACHIEVEMENT AWARD to Prof. K. Hans Raj at Oakland, USA.





DEI students develop low-cost 'Bhartiya Swadeshi' 3-D printer

HT Correspondent

AGRA: Students of the mechanical engineering department from Dayal Bagh Educational Institute (DEI) have developed a low cost portable 3- dimensional (3D) printer, which they named as 'Bhartiya Swadeshi'. It is capable of producing tangible 3D prints of any shape.

The printer, which requires minimum technical skill for operation, is aimed at helping locals to earn through 3-D printing, thereby contributing to the 'Make in India' initiative of Prime Minister Narendra Modi.

A team of students including Anand, Ishant Singhal, Hardik Chadda, Varun Yadav and Sandeep Mishra made this printer under the supervision of their mentor, Dr Rahul Swarup Sharma. Dr Sharma told HT, "Dr Sharma said, "The students made the 3D printer by using parts, which are also made and shaped through printing in 3D technology, at the rapid prototyping facility of DEI."

He added that the printer, based on fused deposition modeling (3D printing technology) cost under R 26,000 and was very economical when compared to the currently available 3D printers in the market.

"Relentless efforts of the team have resulted in very good work. The affordable 3 D printer is capable of producing tangible 3D prints of any shape and complexity," said Dr Sharma.

Dr Sharma said that due to minimal skill requirements in operating a printer, this technology would generate massive employment opportunities. "One can easily open a 3-D photostat shop with a small capital and infrastructure."

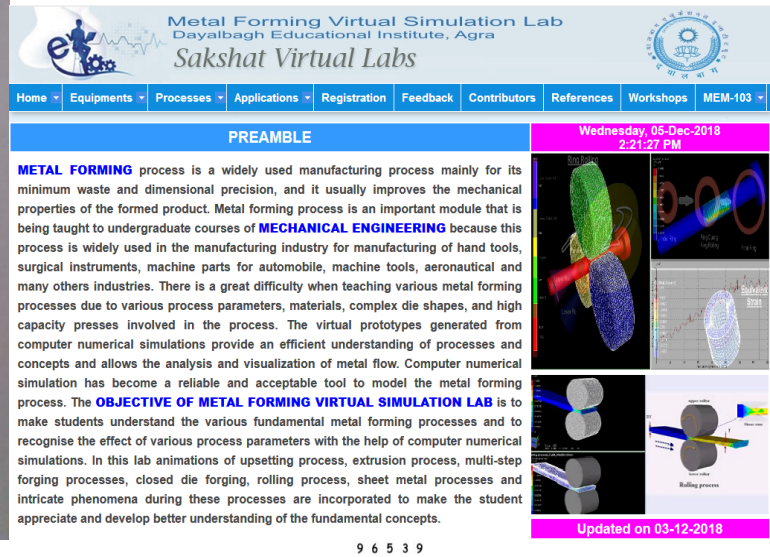
Dr Sharma explained that the printer worked by taking a computer aided design input, slicing the design into numerous layers and then printing it layer by layer in a process which was called additive manufacturing.

"The 3D printer was exhibited on the occasion of 'World Skill Day 2015' in Lucknow, where it was much appreciated by minster of state for vocational education and skill development, Prof. Abhishek Mishra," said Dr Sharma.

(From right) Achal Anand, Ishant Singhal, Sandeep Mishra, Hardik Chaddha and Varun Yadav, the creators of the printer. HT PHOTO

Harassment of

Student Achievements



Research, Consultancy and Extension

Research Output

- *Ph.D. Awarded* : *10*
- *Ph.D. Submitted* : *2*
- *Ph.D. Enrolled* : *19*
- *Patents* : *1*

Organization of Scientific Events

- *International Conferences /Workshops*: *8*
- *National Conferences/Workshops* :*15*
- *Seminars –Distinguished Scientists* : *16*

Faculty Awards and Recognitions

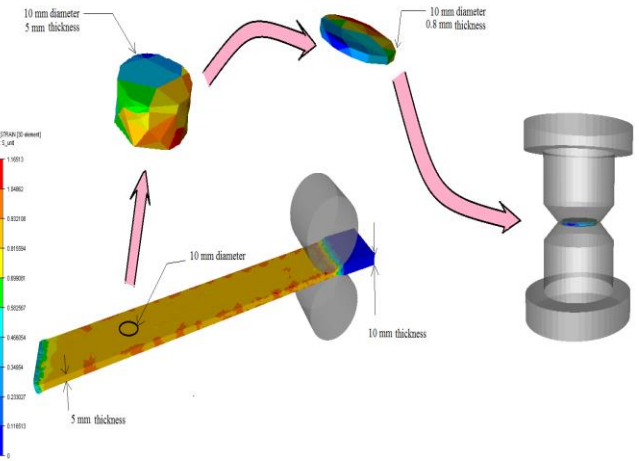
- *International* : *12*
- *National* : *18*
- *Best Paper Awards* : *18*
- *Visiting Professorship* : *5*
- *Visiting Scientists* : *5*
- *Invited Talks* : *17*
- *Fellows, Professional Bodies* : *5*
- *Editorial Boards of Journals* : *6*
- *Review Boards of Journals* : *6*

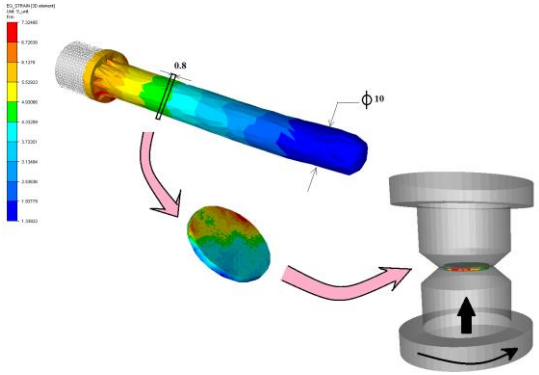
Joint International Conference ICAM of DEI and IIT-BHU

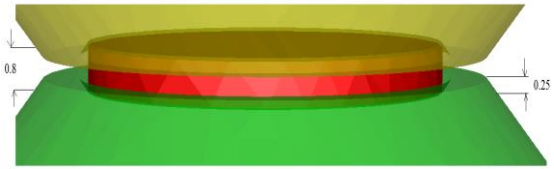
National Seminar on Ergonomics

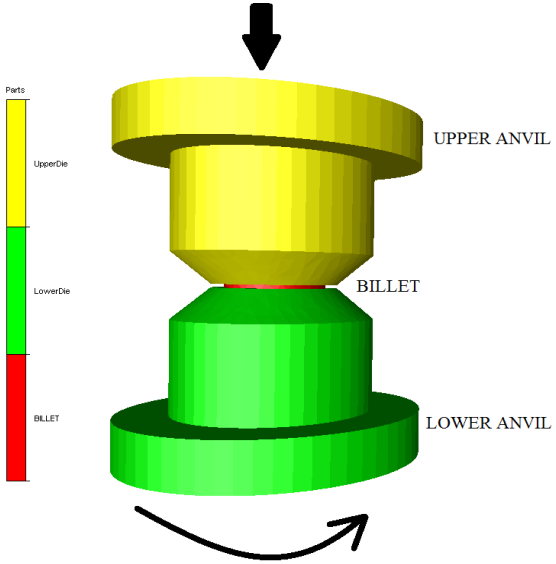
National Workshop on Bio-Fuels

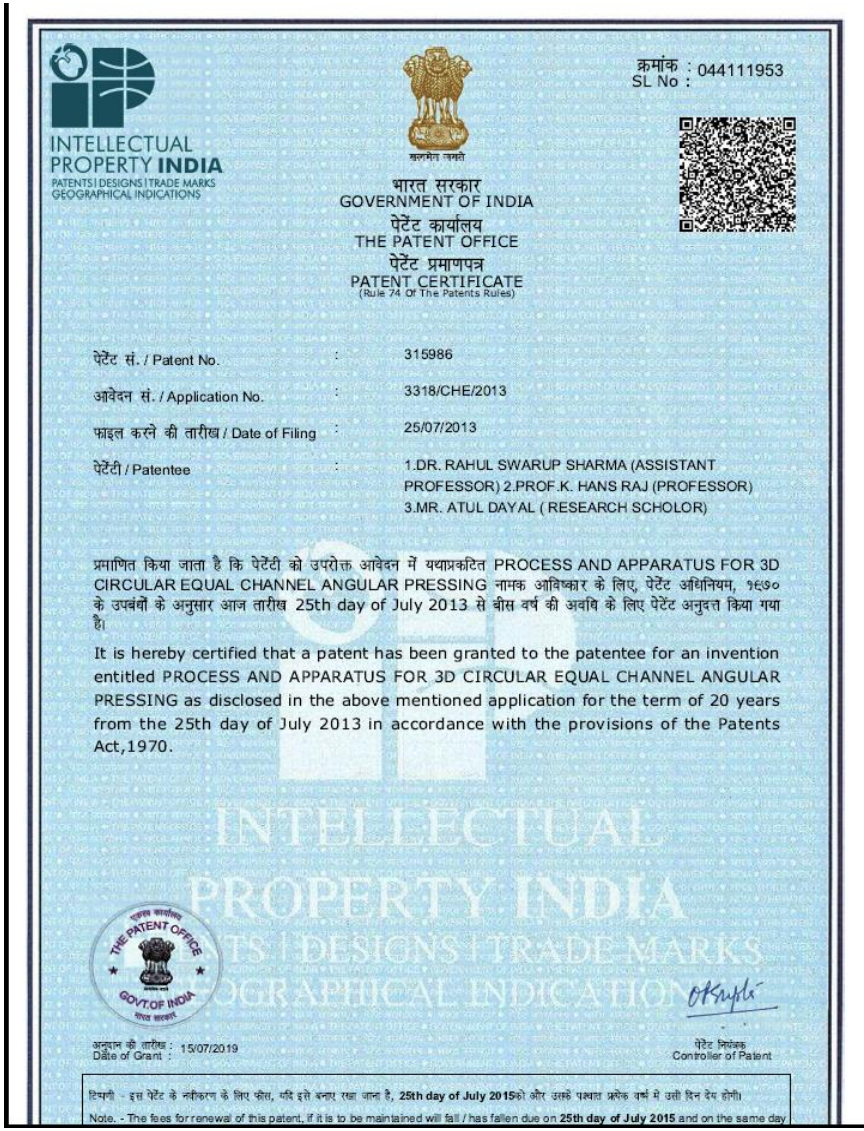
PATENT - 3D ECAP DIE Development of Bulk-Nano Materials with SPD











INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

क्रमांक : 044111953
SL No :

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	315986
आवेदन सं. / Application No.	:	3318/CHE/2013
फाइल करने की तारीख / Date of Filing	:	25/07/2013
पेटेंटी / Patentee	:	1.DR. RAHUL SWARUP SHARMA (ASSISTANT PROFESSOR) 2.PROF.K. HANS RAJ (PROFESSOR) 3.MR. ATUL DAYAL (RESEARCH SCHOLOR)

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित PROCESS AND APPARATUS FOR 3D CIRCULAR EQUAL CHANNEL ANGULAR PRESSING नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 25th day of July 2013 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled PROCESS AND APPARATUS FOR 3D CIRCULAR EQUAL CHANNEL ANGULAR PRESSING as disclosed in the above mentioned application for the term of 20 years from the 25th day of July 2013 in accordance with the provisions of the Patents Act,1970.

THE PATENT OFFICE GOVT. OF INDIA

अनुदान की तारीख : 15/07/2019
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **25th day of July 2015**को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on **25th day of July 2015** and on the same day

3. Research, Innovations and Extension

Funds generated from Extra-Mural Projects:

Completed : Rs. 9 crores

In Progress : Rs. 3.55 crores

Major Funding

- **DST-FIST** : *114 lakhs*
- **UGC-SAP** : *35 Lakhs*
- **MHRD-NMEICT Mission Programme**: 6.18 Crores
- **TEQIP** : 2.0 Crores

University of Groningen, The Netherlands

CEMEF Laboratory, France

MOU with Oakland University USA

Western Michigan University, USA

Research Collaborations

International

- *CEMEF, France*
- *Oakland University, USA*
- *MIT, Boston, USA*
- *University of Maryland, USA*
- *Western Michigan University, USA*
- *University of Groningen*

National

- *IIT, Delhi*
- *JNTU Hyderabad*
- *Confederation of Indian Industries*
- *ADRDE(DRDO)*
- *IIT-BHU*

Research Impact

Research Publications in last 5 years

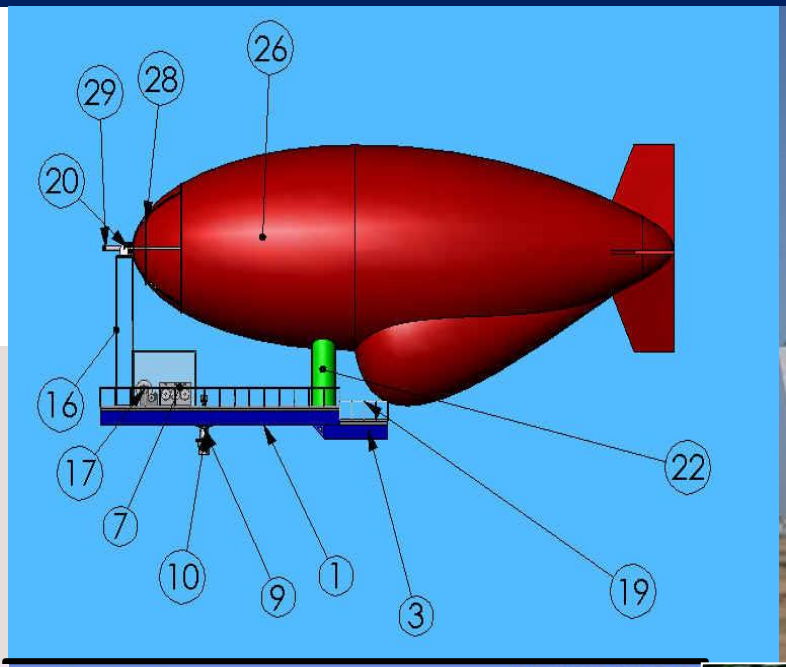
Journals : 46
Intl./Natl. Conf. Proc. : 34
Books/Book Chapters: 3

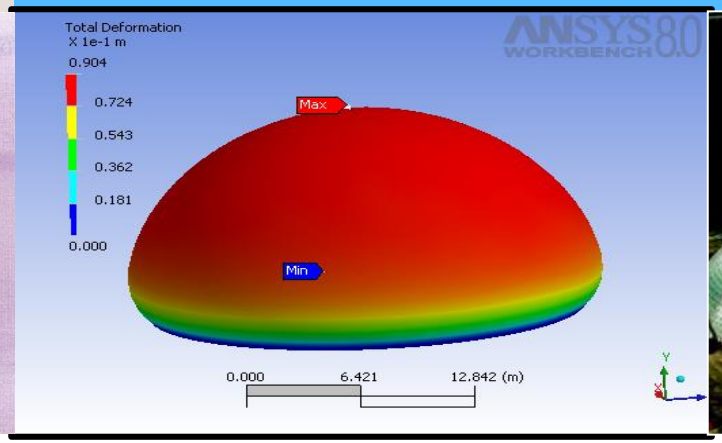
h-Index (Faculty): *2 – 10*

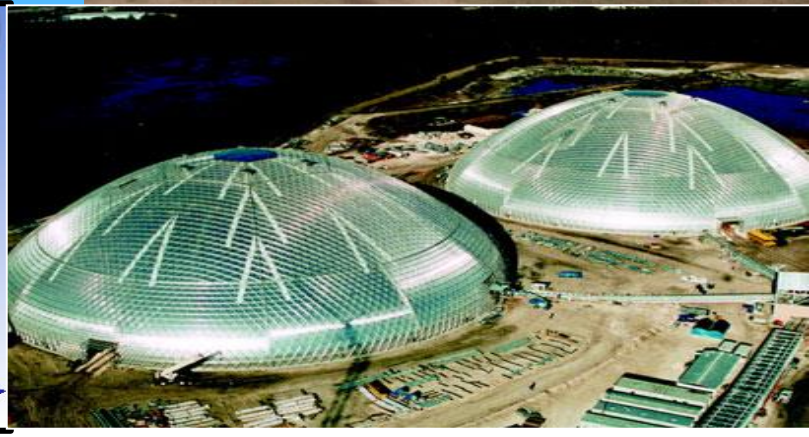
i-10 Index : *1 – 10*

Impact Factor: *0.280 –4.99*

Total Citations: *780*



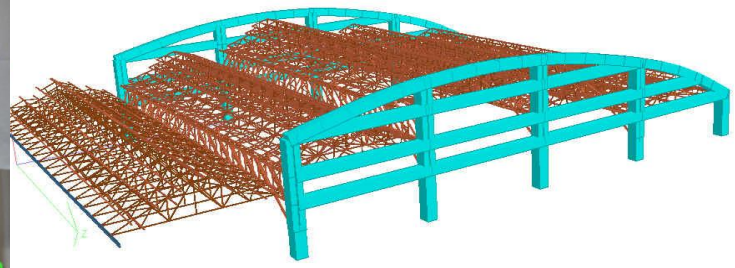




ADRDE CONSULTANCY - RADOME & AEROSTATS (AKAASHDEEP -2000 m^3 & NAKSHATRA 3000m^3) and EMERGENCY FLOTATION

Many projects immensely contributed to Society and industry

Low cost 3D Printers for all



Community Prayer Hall Finite Element Analysis with STAAD Pro

Industrial Kinesiology Lab

Offers medical diagnostic tests to patients of economically weaker section referred by Saran Ashram Hospital, Dayalbagh.

1. ***Digital X-Ray Facility***
2. ***Spirometer***
3. ***Nerve Conduction Velocities***

COLLABORATING WITH LAVA COFOUNDED BY Mr. S.N. RAI, AN ALUMINUS OF DAYALBAGH EDUCATIONAL INSTITIUE.

डीईआई में अंतर्राष्ट्रीय संगोष्ठी

एजाईल मैन्यूफैक्चरिंग पर चल रहा है मंथन

डीईआई में अंतर्राष्ट्रीय संगोष्ठी का आज दूसरा दिन

DLA News

आगरा। डीईआई अभियांत्रिकी संकाय के दालबाग्रह में एजाईल मैन्यूफैक्चरिंग विषय पर मंथन चल रहा है। दीक्षांत समारोह सभागार में आयोजित संगोष्ठी का शुभारंभ कीनन कंसोलिडेटेड के डिप्टी बिजनेस हैड के. पनेसी टॉक ने किया। तदुपरान्त सामोह का प्रारंभ संकाय प्रमुख प्रो. दीपक मिश्रा के स्वागत से हुआ।

सामोह में एकसेंटर सर्विसेज लिमिटेड के डा. मारको ने अपने उद्बोधन में बताया में बढ़ती लागत, प्रतिस्पर्धा एवं आधुनिक जैसी कठिन परिस्थितियों में औद्योगिक घरानों द्वारा लाभांश बढ़ाने के निर्णय में एजाईल विषय के योगदान पर प्रकाश डाला।

संचालनैन सुरेंद्रनाथ द्विवेदी ने लुईसियाना, अमेरिका से वीडियो टॉक के माध्यम से अपने विचार व्यक्त करते हुए भारतीय संस्कृति को विलासता पर प्रकाश डाला।

संस्थान के डायरेक्टर प्रो. बीसी दास ने भूतपूर्व महान वैज्ञानिक कर्ज की यूनिवर्सिटी ऑफ टीबी सिंह को इंटरनेशनल सोसाइटी फॉर प्रोडक्टिविटी इंजीनियर की ओर से लाइफ टाइम ऐचीवमेंट अवार्ड से सम्मानित किया। प्रो. संसमन को डा. मारको हेवन ने सोसाइटी के फेलो की उपाधि का सम्मान पत्र प्रदान किया।

दयालबाग शिक्षण संस्थान के अभियांत्रिकी संकाय द्वारा मुख्य सभागार में आयोजित

जागरण

www.jagran.com

'भारतीय मैन्यूफैक्चरिंग ग्रोथ बढ़ाने की जरूरत'

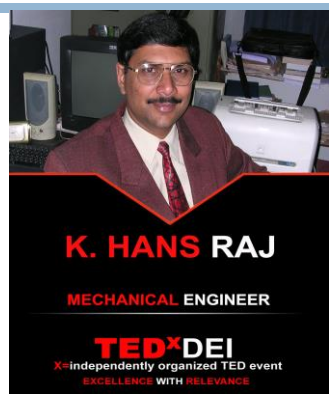
डीईआई

एजाइल मैन्यूफैक्चरिंग विषय पर अंतरराष्ट्रीय कांफ्रेंस

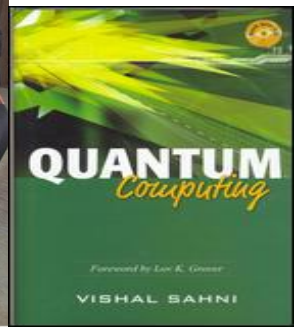
International Attention to DEI Values

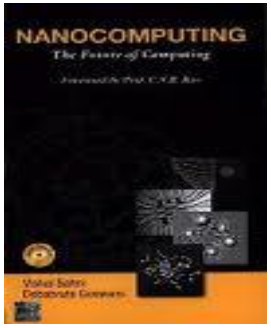
FLEXIBLE MANUFACTURING

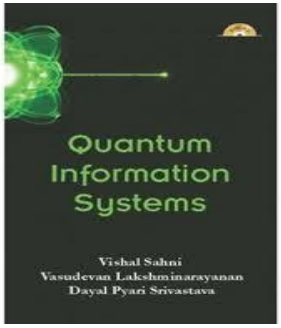
Values: Waste Nothing, Work is Worship, Discipline and Economy. In terms of agile manufacturing these are translated to Flexible and Lean enterprises doing quality work quickly and economically with discipline.



Tradition of Felicitating the Teachers by Alumni after 25 years of Graduation. Also the Emeritus Professors serve even after retirement.







"The significant problems we face cannot be solved from the same level of consciousness that created them". **Einstein**

"People see things and say why, I dream of things that never were and say why not".
Bernard Shaw

Education, More Education, Education made perfect is the only panacea of our countries ill's and evil's …
His Holiness Sahabji Maharaj
Founder of Dayalbagh

STAFF AWARDS AND ACHIEVEMENTS

Students Achievements at National Level

1. **Second PRIZE (Rs. 2.5 Lakh), Students' Innovation Pavilion-2015**
2. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup.
3. Participation in **Rashtrapati Bhawan Code for India Hackathon for Social Innovations** held at President's Estate, New Delhi, India (March 2016)
4. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup **2018.**
5. **Champion 2017 : Best Solar Skills Training Institute,** Renewable Energy India Expo, September 21, 2017, Greater Noida.
6. **Best Graduate Engineer Trainee/ Best New Comer/ Star Performer of the Year/ Best Analyst/ Best Team** at Maruti Udyog, HCL, TCS, ST Microelectronics, Accenture, ACC Ltd., Siemens India.

Governance and Leadership – Director DEI leading by Example

Commissioner Agra

Vice Chairman Niti Aayog

Exhibition at IIT-D student showcasing projects

OUT REACH PROGRAM OF SOCIAL SERVICE AT VILLAGE PADAHAN- HIMACHAL BY STAFF OF MECHANICAL ENGINEERING DEPARTMENT

VISITS BY EMINENT PERSONS

- Mitsubishi Team
- Prof. Jannes Slomp
- Padamshree Dr. D.K. Hazra
- Bharat Ratna Dr. A.P.J. Abdul Kalam
- Nobel Laureate Prof. Richard R. Ernst

Dr. D.K. Hazra

Prof. Jannes Slomp

Bharat Ratna Dr. A.P.J. Kalam

7. Future Plan of Action

Vision – 2031

Important Milestones to be achieved

- ***To make the department one of the top 10 departments of India.***
- ***100% students to appear in GATE Examination***
- ***Maintaining percentile 99.9 in GATE as was done for last 33 years.***
- ***Aim towards 100% Entrepreneurs.***
- ***To create the following Centers of excellence:***
  - ***Agile Manufacturing***
  - ***3D Printing***
  - ***Non-conventional Energy***
  - ***Innovation, Incubation and Entrepreneurship***
- ***Excellence in Research and Development***
- ***10 Significant Start- ups in Engineering.***

NIRF POINTERS THAT HIGHLIGHT FACULTY OF ENGINEERING DEI DAYALBAGH

Pointer	IIT Madras 2019	DEI 2019	DEI 2018	Remarks
FSR (out of 30)	30.00	30.00	30.00	DEI is in position 1 along with IIT Madras in Faculty Student Ratio (FSR)
FQE (out of 20)	18.34	16.24	16.46	DEI is comparable to IITM in Faculty Qualification and Experience (FQE)
GPHE (out of 40)	32.05	25.49	29.43	DEI is comparable to IIT Madras in Metric for Placement, Higher Education and Entrepreneurship (GPHE)
GUE (out of 15)	15.00	15.00	15.00	DEI is in position 1 along with IIT Madras in Metric for University Examinations
WD (out of 30)	13.72	22.63	22.30	DEI is in better position than IIT Madras in Women Diversity

7. Future Plan of Action

S. No.	Important Milestone	Timeline
1.	NBA Accreditation	2019
2.	100% GATE Participation	2020
3.	90% Placement	2021
4.	10 Startups	2028
5.	National Recognition	2031

Department of Footwear Technology

Brief Profile & Progress Report

(2014-2019)

Presentation Outline

- Curriculum Aspects
- Teaching Learning Evaluation
- Research Innovations and Extensions
- Infrastructure and Learning Resources
- Students Support
- Governance, Leadership and Management
- Institutional Values and Best Practices

Vision and Mission

Dayalbagh Educational Institute: VISION

To provide education, more education, education made perfect, which is the only "panacea for our country's ills and evils". DEI aims to serve as an exemplary model of education, covering the entire spectrum of knowledge and wisdom, to selflessly serve mankind by evolving a race of supermen, who possess the virtues to resolve the grave global challenges and establish a more humane and enlightened society.

Dayalbagh Educational Institute: MISSION

The mission objective of DEI is to provide value-based, comprehensive and inter-disciplinary education to evolve a 'complete person', i.e., a well-rounded total quality person, whose hallmarks are intellectual strength, emotional maturity, truthfulness, simple living, high moral character, scientific temper, general awareness, interdisciplinary outlook and one who discharges duties and obligations and is capable of giving a fuller response to social and environmental challenges.

DEI Department of Footwear Technology: VISION

To become a top teaching-cum-research department in Footwear Technology in the country through an exemplary system that lead to entrepreneurship, innovation, values and quality.

DEI Department of Footwear Technology : MISSION

To Develop outstanding Footwear Engineers well versed in Theory and Practice with highest ethical standards who will help in nation building with a spirit of self sacrifice to serve humanity.

Dept. of Footwear Technology
Programme Objectives

1. *To provide a solid foundation in Basic Sciences, analytical skills and engineering fundamentals required to succeed in footwear field and to pursue research endeavors.*
2. *To provide broad-based exposure to the 'state of the art' in Footwear discipline and equip the students industry ready.*
3. *To prepare students to respond to societal and global needs.*
4. *To train students with good scientific and practical engineering skills to comprehend, analyse, design and create novel Footwear products.*
5. *To encourage students to develop lifelong learning skills, entrepreneurship abilities and ethical values for a successful professional career.*

Chronological Progression

2018 – Dept. of Footwear Tech.

2014 - B.Tech. Footwear Tech.

2005 - Diploma Started

2004 - Shifted to Tannery Campus

1932 – Dayalbagh Leather Tannery

1930 - Leather Working School

Specialty of Dept. of Footwear Technology

- State-of-art laboratories such as CAD Lab (with shoe master, digitizer, laser printer, plotter and 3D scanner and printer), Physical and chemical Testing Lab, Footwear Fabrication Workshop.
- E-Class Rooms
- Choice based Credit System (CBCS)
- Variety of ancillary courses, computer oriented courses and courses on marketing and quality control besides the core footwear courses.
- Five months Co-Op training in industry
- Regular update the syllabus and courses
- Students placement in National and International footwear companies like
  - Puma Sports Shoes, Bangalore Package
  - Bata Shoes, Delhi
  - Action shoes, Faridabad
  - Metro shoes , Mumbai
  - Intratek Footwear Testing, Gurgaon
  - Gupta Overseas, Agra
  - Liener shoes, Agra
  - Dawar Footwear, Agra ….

  Highest Salary Package 7.5 Lakh, Average package – Rs. 3.1 Lakh pa

Department of Footwear Technology

Agriculture Operations

Work based Education

Finishing Operation

Students involved in social service

De-lasting in Lab

Students'/ project work

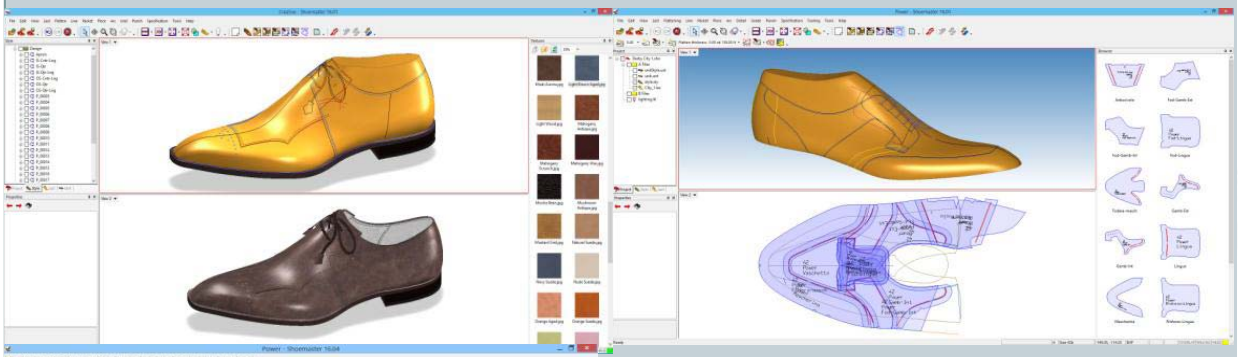
State of Art Laboratories

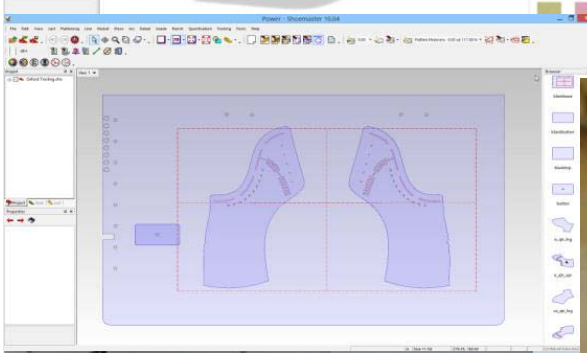
The Faculty has several well-equipped laboratories that support and reinforce the theoretical subjects taught. These include laboratories for :

- Advance Computer Aided Shoe Designing Lab.
- Physical Testing Lab
- Chemical Testing Lab
- Statistical Quality Control Lab
- Footwear Designing & Pattern cutting Lab.
- Shoe Upper Clicking Lab.
- Shoe Upper Closing Lab.
- Footwear Bottom Making Lab.
- Footwear Construction Lab
- Footwear Finishing Lab.
- Leather Goods and Garments Lab
- Rapid Prototyping Lab
- High Voltage Testing Lab
- Electronics Lab
- Footwear Fabrication Workshop

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

Footwear Advance CAD Lab





ATOM

Physical Testing Lab

Test Physical properties of footwear materials

Chemical Testing Lab

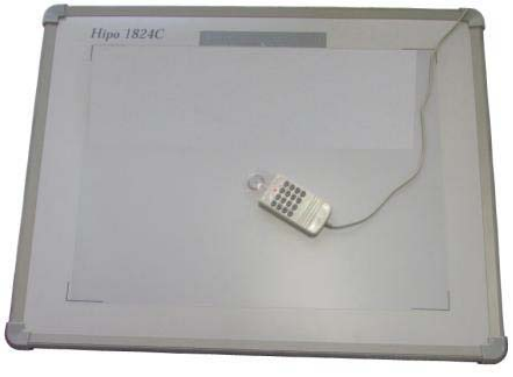
Test Chemical properties of footwear materials

Footwear Fabrication Workshop

1.	Clicking Machine – Atom 20 tonns	1.	Seat Lasting
2.	Sewing Machines -	2.	Roughing and Buffing Machine
3.	Skiving Machine	3.	Sole Marking Machine
4.	Toe Puff Conditioning Machine	4.	Sole Pressing Machine
5.	Counter Molding Machine	5.	Heat Re-activator
6.	Toe Lasting	6.	Finishing Machine

Rapid Prototyping Lab

1. 3D – Printer
2. 3D - Scanner
3. Laser Cutter
4. Digitizer



Faculty position – Dept. of Footwear Technology

Regular Faculty

Prof. D.K. Chaturvedi, Ph.D., M.Tech., PE-IEI
Mr. G.P. Sharma, BA, Diploma, Ex-GM Inderson Leather, Chandigarh, Experience-40yrs
Mr. Ravi Saini, BA, certificate in Leather, Experience-30yrs
Mr. G.D Tomar, MA, Diploma, Experience-35yrs
Mr. M.S Sethia, certificate in Leather, Experience-30yrs
Mr. R.K Sinha, BA, Certificate in Leather, Director, Hawshin Industries
Mr. Raghav Gautam,BA, Diploma, Experience-8yrs
Mr. Aman Kumar Kushwah, B.Com., Diploma, Experience-8yrs
Mr. Manoj Tiwari, Certificate in Leather, Experience-08yrs
Mr. Anoop Kumar, Certificate in Leather, Experience-08yrs

Visiting Faculty

Mr .A.P Sheel, B.Sc., Diploma, Manager Leather Business, Certificate in Leather, Experience-30yrs
Mr. S.S. Nanda, M.Com. Certificate in Leather, GM park Lane Shoes, Agra, Certificate in Leather, Experience-30yrs
Mr. Arjun Verma, B.Tech., Experience – 1 Yrs, Pursuing M.Tech.
Mr. Rishabh Gupta, B.Tech., Experience – 1 Yrs, pursuing MBA
Mr. Ankit Yadav, B.Tech., Experience – 1 Yrs
Mr. Lavaniya, B.Tech., Experience – 1 Yrs

Getting Support from Faculty of Education, Science, Social Sciences, Arts, Commerce and USIC

Teaching/Learning milestones

GATE Support

Provide GATE resource material and additional classes for GATE students

Earn while Learn

Students prepare the Footwear, Leather Good and Garments and sale at students corner

Developing Virtual Labs (Initiative to use ICT)

Footwear Material Testing Lab is developed.

Application of Course Management System (CMS)

To display marks to students on continuous evaluation basis of
Various components (CTs, DHA, Class Assignments, Additional Assignments, Attendance in class)

Departmental Activities

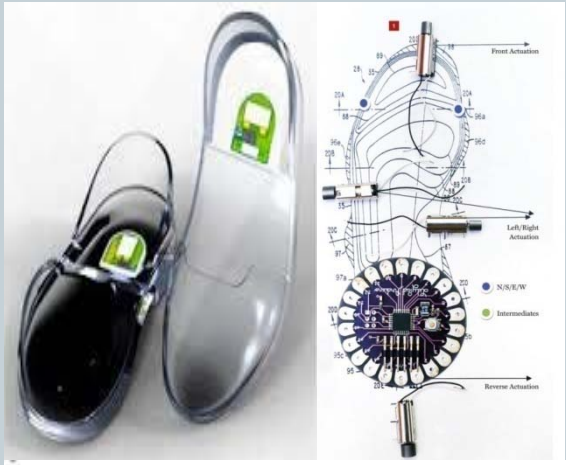
- Industrial Tours
- Meet at Agra Footwear Fair
- Visit to International Footwear Fair
- Organized
  - National Seminar on Recent Trends in Footwear Technology
  - Curriculum Development Workshop
  - Engineers' Day – 15 Sept. Every year
  - Open Day – 31 st Jan Every year
  - Different competitions under IEI students Chapter

Innovations That Will Change Tomorrow

- Maintain inner temperature although outer temperature varies from say -20 To +45 Deg. C.

- Sense The Shoes about Slippage and Prevent from that.
- Shoes for older persons having less memory or memory problem. It can remind them to follow which path to go to home.

- Walking and running Energy may be used for mobile Charging. (Students completed project)



Research and Innovative Projects

Laser cutter cum 3D printer

GPS trackable shoe

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

Power Generation by Walking

Power generation on walking b converting mechanical force in Electrical energy using piezo-elecric effect

LDR Shoe

LDR shoes which automatically Switch on in night

Heating insole

Maintain Inner Temperature Although Outer Temperature Varies From Say -20 To +45 Deg.

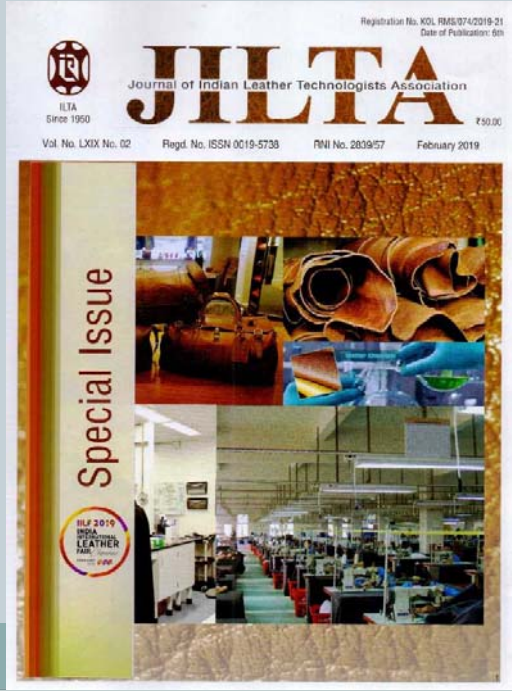
Research Innovation Activities

STUDENTS PRODUCTS

Students' Publication

- Arjun Verma, D.K. Chaturvedi, Hardik Chaddah, "3D printing cum Laser Cutting and Engraving in Footwear Industry", Journal of Indian Leather Technologists' Association (JILTA), Feb. 2019, Vol. LXIX(02), pp. 63-66.

- Manu shukla, Laxmi Kant Tyagi, Brajesh Kumar Singh. Yashank Srvastava, Arjun Verma, D. K. Chaturvedi, "Use of Piezoelectric concept for Heating and charging system in shoes", Journal of Indian Leather Technologists' Association (JILTA), Aug. 2019, Vol. LXIX(02), pp. 53-58.



Outreach programmes

Train Rural Tribal People of Rajaborari , Harda District in M.P. for

Bag Making
Shoe Making
Ladies Footwear
Hand gloves

For their livelihood

100 kV HVAC – Test Facility

Offer HV Testing for Safety/electrician Shoes to local footwear Industries

Talks by Extern Experts

Mr. Luigi Cerioni, Italy

Mr. Jean Marc Pedaboy, France

Mr. P.N. Satsangi. GM
Metro shoes, Mumbai

VISITS OF SOME DISTINGUISHED GOVT. OFFICERS

Prof. Anup Gogoi, IIT, Guwahati, Assam visited on 22.10.2015

Mr. Jag Mohan Lawania, Director-Social Welfare, U.P. Lucknow visited on 2003

Dr. Upendra Tripathy, Secretary-MNRE visited on 25.10.2015

Students Placement

- The B.Tech. Footwear Technology students placed in national and internal Footwear Companies. Some of the companies mentioned as below:
  - Puma Sports Shoes, Bangalore
  - Bata Shoe Ltd., Delhi
  - Action Shoes, Delhi
  - Liberty Footwear,
  - Gupta Overseas, Agra
  - Metro & Metro Shoes, Agra,
  - Liner Shoes Ltd. Agra
  - Dawar Shoes, Agra
  - …. Etc.

Lab Equipment

New Facilities/Labs./Major Equipment added

Toe Lasting Counter Molding Seat Lasting Clicking Machine

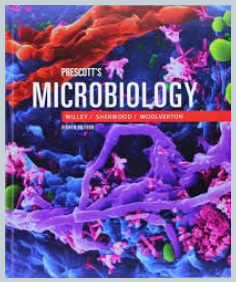
Major Equipments (costing > Rs 1 lakh): 20

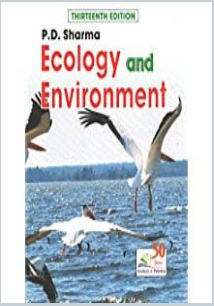
Infrastructure & Learning Resources

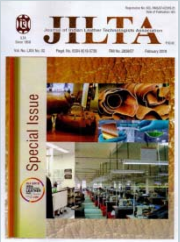
- IT Infrastructure
  - Networked rooms/labs.: 2
  - Wi Fi facility
  - Video conferencing facility

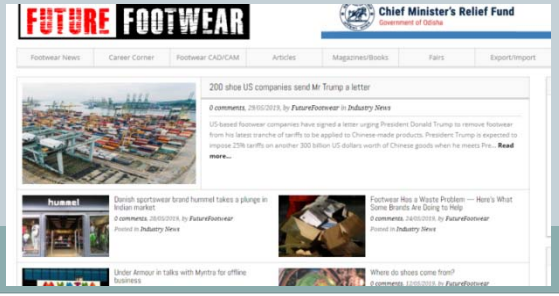
- Library as a learning resource
  - UGC INFLIBNET e-journals
  - Individual Journal/Magzine subscriptions by Faculty

Students complete 20% of credits through NPTEL/MOOCS/Swayam/NMIECT









Students' Support System

- DEI- Alumni Placement Assistant Cell (APAC) organizes career guidance, resume writing, soft skill courses, mock interview etc.
- Department offers remedial coaching, GATE coaching.
- Students participations in placement activities in different roles eg. placement coordinator and team member.
- Proctorial System
  - Class captain, Prefect, Vice Prefect, Teacher proctor, Faculty proctor and Chief Proctor.
  - Conduct regular class committee meetings
  - Class committee meetings report shared to concerned persons, Dean, Director and Registrar.
  - Problems rectified

Future roadmap: Vision 2031

1. The footwear Department of DEI must one of the best departments in the country of its kind and **offer value based quality education** to the students from all the backgrounds especially from weaker sections.
2. To develop a **center of excellence in walking technology**
3. Department is planning to **offer**
   a. **modular courses based on industrial demand,**
   b. **skill based (practical) education** for the students who does not want to pursue regular studies
   c. **M.Tech. and Ph.D.** those want to study further.
   d. **Consultancy and other technical services (Testing and design etc.) to the industries.**

Thank you