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.



International Journal

ADVANCED MANUFACTURING SYSTEMS

PUBLISHED BY INTERNATIONAL SOCIETY OF AGILE MANUFACTURING



intricate phenomena during these processes are incorporated to make the stude appreciate and develop better understanding of the fundamental concepts

Research, Consultancy and Extension



:5

:6

:6

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
- Editorial Boards of Journals
- Review Boards of Journals

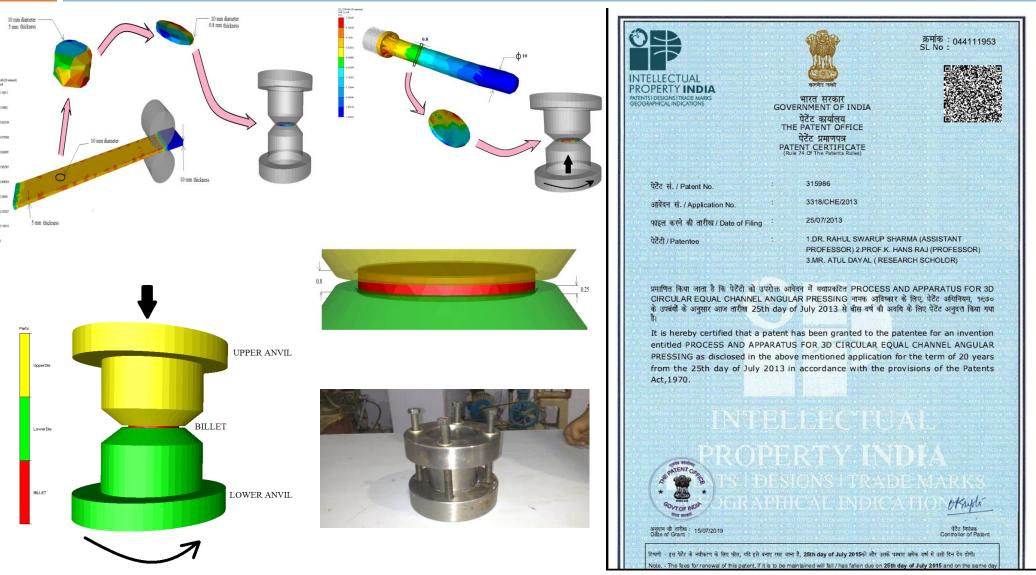


Joint International Conference ICAM of DEI and IIT-BHU

National Seminar on Ergonomics National Workshop on Bio-Fuels

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





ADRDE Consultancy Project on Development of Bulk-Nano Materials with SPD – HPT & 3D ECAP

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

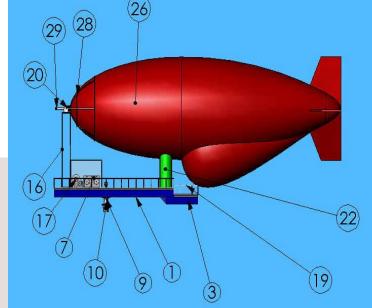
- CEMEF, France
- Oakland University, USA
- MIT, Boston, USA
- University of Maryland, USA
- Western Michigan University, USA
- University of Groningen National
- IIT, Delhi
- JNTU Hyderabad
- Confederation of Indian Industries
- ADRDE(DRDO)
- IIT-BHU



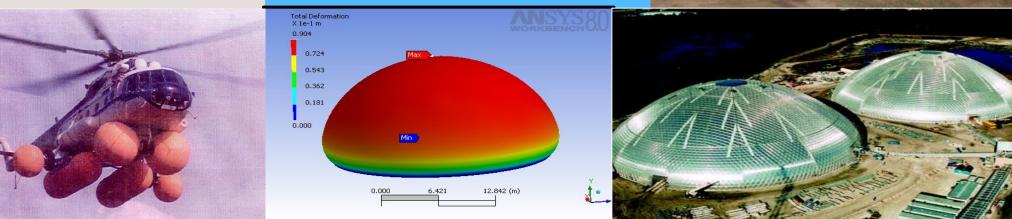
Research Publications in last 5 years

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 m³ & NAKSHATRA 3000m³) and EMERGENCY FLOTATION

Many projects immensely contributed to Society and industry





Low cost 3D Printers for all

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





Community Prayer Hall Finite Element Analysis with STAAD Pro



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



भेगे विश्वपार राष्ट्रे। अनुभावन राष्ट्रावाला पर नारायक के पीर्वपार राष्ट्रे। यो परिवाला के निर्देशकर की जीवी पास के स्वीतिकार के में वर्षेवाच्या भी कोर से जी जीवी विश्व परार्थ भी मा को नार्व्याच्याप अत्योजनीर करवार्य के विविकारण । र सरकर्षात्रम् विवया अत्योजनीर करवार्य के लिकिकारण ।

३० सोमापव प्रसुत किया का प्रवस्ता व अध्यक्षणा, धे अपनन कहर स्वाधन प्रमार, सालदल गुच्या प्रेर गनेन मारावन ने की। हय कोल पर क्षे पीएस उल्लान, प्रेर ग्लेंग करोड़ा प्रेर के सीनमाठ, प्रेर ग्लेंग करोड़ा प्रेर सालंक भीर, स्विरमाठ क्रियों क्रिया-विदेशकार कीर सीकटों क्रिया-

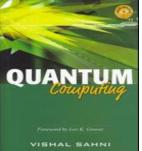
International Attention to DEI Values

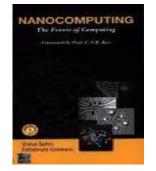
FLEXIBLE MANUFACTURING

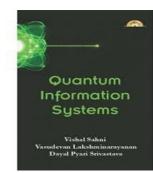
Values: Waste Nothing, Work is Worship, Discipline and Economy. In terms of agile manufacturing these are translated to Flexible and Lean enterprises doing quality work quickly and economically with discipline.



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".

"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



K. HANS RAJ

ENGINEER

DEI



STAFF AWARDS AND ACHIEVEMENTS



















Students Achievements at National Level



- 1. Second PRIZE (Rs. 2.5 Lakh), Students' Innovation Pavilion-2015
- First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at Mitsubishi Electric Cup.
- Participation in Rashtrapati Bhawan Code for India Hackathon for Social Innovations held at President's Estate, New Delhi, India (March 2016)
- First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at Mitsubishi Electric Cup 2018.
- 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.

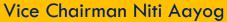


Governance and Leadership – Director DEI leading by Example





Commissioner Agra







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



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



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