About DIAT

Defence Institute of Advanced Technology (Deemed to be University), Pune is a premier technology university, established u/s 3 of the UGC act 1956. MHRD, Government of India has placed DIAT (DU) in Category 'A' Deemed to be University. DIAT is 'National Assessment and Accreditation Council (NAAC)' and National Board of Accreditation (NBA) accredited. DIAT is the only technical university of Ministry of Defence, Govt. of India which enjoys the autonomy of a full-fledged University, having wealth of academic acumen and financial and technical support from Defence Research and Development.

DIAT is engaged in imparting technical education, in niche areas at PG (M.Tech) & Ph.D in its various forms & capacities. The main focus of the institute is to get evolved as an innovative unique teaching & research university to develop indigenous contemporary defence-related technologies. The University is spread over 496 acres in scenic beautiful location, overlooking Khadakwasla lake, in Sahyadri hills. The university has been awarded various education excellence awards. The university has well-equipped laboratories with latest equipments and simulation/analysis softwares. The DIAT has been adjudged 58th ranked university in India by MHRD, through NIRF, (Year-2021) on the basis of excellence in teaching, learning, research and innovation.TheM.Tech programmes are designed to include course of study, seminars, project/thesis, practice school & industry visit through which a student may develop his/her concepts and intellectual skills.

DEPARTMENT OF MECHANICAL ENGINEERING

DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY (DU), PUNE-411025

IS ORGANISING

Online CEP on Impact Analysis using LS-DYNA Finite Element Software

26-28 Sept, 2022

In Association with

CADFEM Simulation is more than Software Ansys ELITE CHANNEL PARTNER

Patron

Dr. C. P. Ramanarayanan,
Vice Chancellor,
DIAT(DU), Pune.

Course Director

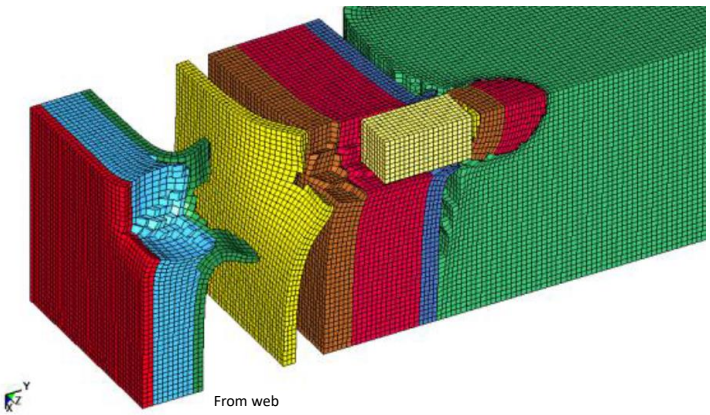
Prof. D.G. Thakur
Head, Mech. Engg, DIAT (DU), Pune.

Course Coordinator

Dr. Sunil Nimje
Asst. Prof, Mech. Engg, DIAT (DU), Pune.

Faculty

- **Prof. S. K. Panigrahi, Professor**
- **Prof. A. Kumaraswamy, Professor**
- **Dr. Sunil Chandel, Associate Professor**
- **Dr. Pankaj Sharma, Sc'F' (On Deputation)**
- **Dr. Pankaj Nadge, Asst. Professor**



From web

About CADFEM

Founded in 1985, CADFEM India Pvt. Ltd. is one of the pioneers of numerical simulation based on the Finite Element Method (FEM) and is a part of CADFEM International - one of the largest European suppliers of Computer - Aided Engineering (CAE), with Global Headquarters in Germany and Local Headquarters in Hyderabad. With 35+ years of experience, CADFEM has grown as a System house providing end-to-end simulation solutions including Hardware, Software, Consulting, Support & Training–All from a source.

For over 3 decades, we have represented ANSYS - the global leader in Engineering Simulation and served 3,000+ customers globally, the largest and the oldest channel partner of ANSYS in the world. With 1000+ CAE Experts globally & 30+ engineers, CADFEM India provides support for both industrial enterprises from any sector and of any size, as well as customers engaged in research, training and teaching. Moreover, CADFEM India is engaged in research projects and liaises closely with companies in order to pave way for simulation in future fields of application. As a close partner of ANSYS, CADFEM sells the suite of ANSYS software. In India, CADFEM is an ANSYS Certified Elite Channel Partner.

Program schedule

Day-1

9:30 AM – 1:00 PM

- ❖ Introduction to FEA
- ❖ Overview of LS-DYNA Software
- ❖ Input deck creation, frequently used keywords

2:00 PM - 5:00 PM

- ❖ Transient Dynamic Solution Methods, Time step calculations
- ❖ Initial conditions, boundary conditions, loads, constraint additional keywords, contacts
- ❖ Hands-on-Session

Day-2

9:30 AM – 1:00 PM

- ❖ Material models
- ❖ Element types (Formulations)
- ❖ Mass scaling

2:00 PM - 5:00 PM

- ❖ Rigid bodies and joints
- ❖ Hands-on-Session

Day-3

9:30 AM – 1:00 PM

- ❖ Execution time control, Restart files
- ❖ Output hints
- ❖ Debugging procedure
- ❖ Modeling guidelines

2:00 PM - 5:00 PM

- ❖ MPP decomposition
- ❖ Spot weld, damping
- ❖ File transformation
- ❖ Hands-on-Session

Participants

- **M.Tech Students from DIAT**
- **JRF/SRF, PhD Scholars from DIAT**
- **Faculty Members from DIAT**
- **Scientists/Researchers from DRDO**

Registration Fees

Scientists from DRDO:₹ 500/-
+ GST @18% =**Total Rs. 590**
No Fees for students, JRF/SRF and Faculty from DIAT

Registration Link

https://forms.gle/97s3utFrrisbdwCn8

Last date of Submission: 22.09.2022

Account Details

DIAT A/C No:30166494269
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IFSC:SBIN0002155

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