



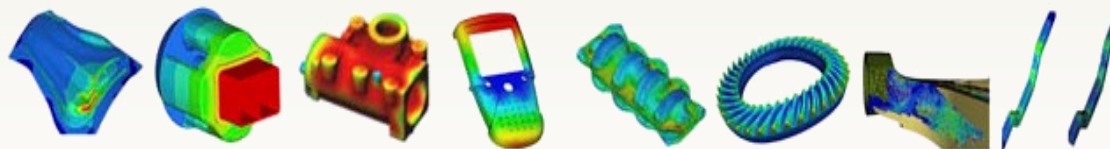
BHARTIYA VIDYA BHAVAN'S
SARDAR PATEL COLLEGE OF ENGINEERING
(An autonomous institution affiliated to University of Mumbai)



Mechanical Engineering Department of SPCE

Organizes Two Day Workshop on
Effective Engineering Solutions using Altair Hyperworks

In association with
DesignTech Pvt. Ltd.
19th - 20th December 2016



Altair	Stamping	Extrusion	Casting	Injection Molding	Forging	Welding	3D-Printing	Mapping
	HyperForm	HyperXtrude	Click2Cast				Inspire	HCRM

Under Technical Education Quality Improvement Program

Organizing Body

Dr. P. H. Sawant	Principal
Dr. M. M. Murudi	Vice Principal
Dr. Nilesh Raykar	Head (Mechanical Engineering Department)
Dr. Kiran S. Bhole	Course Coordinator
Dr. Kedarnath Rane	Course Co-Coordinator
Prof. Sharad Valvi	Course Co-Coordinator

ADDRESS FOR CORRESPONDENCE :

BHARTIYA VIDYA BHAVAN'S SARDAR PATEL COLLEGE OF ENGINEERING, MECHANICAL ENGG DEPARTMENT
BHAVAN'S CAMPUS, MUNSHI NAGAR, J.P.ROAD , ANDHERI(W), MUMBAI 400 058
PH: 91-22-262 32 192 / 262 89 777 | FAX: 91-22-262 37 819 | www.spce.ac.in

SARDAR PATEL COLLEGE OF ENGINEERING

Sardar Patel College of Engineering (SPCE) under the management of the Bhartiya Vidya Bhavan, was founded by Kulapati Dr. K. M. Munshi. It was established to meet the growing demand for engineering talent. The foundation stone of the college was laid on 17th September 1961 by Shri. Y. B. Chavan (the then Chief Minister of Maharashtra who later became the Defence Minister of India.) The college was inaugurated by the first Prime Minister of Independent India, Pandit Jawaharlal Nehru in 1962. The college is dedicated to Sardar Vallabhbhai Patel, an eminent nation builder of independent India. The college is autonomous and affiliated to the University of Mumbai for the full-time degree, post graduate, and research programs. The institute has set high standards for aspiring engineering students and also meets the need of quality education in the challenging world of business. Over the last 50 years the college has gained an excellent reputation in the field of Technical Education. SPCE is one of the few colleges that have received Grade 'A+' rating for its aided courses from the Govt. of Maharashtra which certifies the spirit of excellence that the institute has symbolized and always practiced. Institute celebrated its golden jubilee in the year 2012.

ALTAIR HYPERWORKS

Altair HyperWorks is the most comprehensive, open architecture CAE simulation platform in the industry, offering the best technologies to design and optimize high performance, weight efficient and innovative products.

Its Hypermesh module has evolved into the leading premier pre-processor for concept and high fidelity modeling. The advanced geometry and meshing capabilities provide an environment for rapid model generation. The ability to generate high quality mesh quickly is one of HyperMesh's core competencies.

Industry trends show a migration to modular sub-system design and continued exploration of new materials; HyperMesh has advanced model assembly tools capable of supporting complex sub-system generation and assembly, in addition, modeling of laminate composites is supported by advanced creation, editing and visualization tools. Design change is made possible via mesh morphing and geometry dimensioning. HyperMesh is a solver neutral environment that also has an extensive API which allows for advanced levels customization. HyperMesh is used by thousands of customers worldwide to generate and manage their models, it supports a wide variety of CAD and solver interfaces, making it a perfect solution for a majority of verticals and domains.

ABOUT THE WORKSHOP

Scope

It is targeted on basic knowledge about main tools and functions of Altair HyperMesh, helping participants to well and easily approach its capabilities and methodology. HyperMesh allows to create, improve and speed-up FEM creation (Automation in creating 2D and 3D mesh) and analysis set-up, as pre-processing environment helps user to dramatically reduce modelling time. Participants are also provided with an introduction of HyperView that allows to visualize solver results and analyze test lab engineering data, as post-processing environment.

Objectives

The trainer will guide participants with a process driven and methodology approach that helps participants to learn and explore solution in real world applications, through the course contents/topics mentioned in next section.

COURSE CONTENTS

Concept Level Design

- * Basic Principles of Concept level design and Optimization
- * Introduction of Solid Thinking Inspire
- * Exercise for Topology Optimization for y-bracket

HyperMesh and Static Analysis using Optistruct

- * Introduction to Finite Element Analysis
- * Auto Meshing
 - * 2D Meshing and Midsurfacing
 - * 3D Meshing

Checking and Editing Mesh

Multi Body Dynamics

Introduction to MotionSolve

Interactive Model Building and simulation

Optimization

Topology optimization of a “C – Clip”

FEES FOR WORKSHOP

Registration Fee

Student	Faculty (Non-TEQIP colleges)	Faculty (TEQIP colleges)	Industry /Sponsored
Rs. 250	Rs. 500	Rs. 2000	Rs. 3,000

The registration fees includes Course Material, Breakfast/Tea-snacks/Working Lunch.

Registration fee should be paid in the form of DD drawn in the favor of “The Principal, SPCE”.

VENUE: SEMINAR HALL (ROOM NO-114), Department of Mechanical Engineering, Sardar Patel College of Engineering.

CONTACT DETAILS FOR MORE INFORMATION

CONTACT	EMAIL	MOBILE
Dr. Nilesh Raykar (HOD, Mechanical Engineering Department)	nilesh_raykar@spce.ac.in	9821637725
Dr. Kiran S. Bhole (Faculty, Mechanical Engineering Department)	kiran_bhole@spce.ac.in	9869378873
Dr. Kedarnath K. Rane (Faculty, Mechanical Engineering Department)	ranekedarnath@gmail.com	9730033608
Prof. Sharad Valvi (Faculty, Mechanical Engineering Department)	sharad_valvi@spce.ac.in	9730605407

WHO SHOULD ATTEND THE COURSE

This course is useful for engineers of different disciplines aspiring to know Hyperworks and its applications.

The course will be most beneficial for:

- ◇ Graduates and post-graduates in any discipline of engineering and science
- ◇ Professionals in Design, Manufacturing, industry, biomedical, pharmaceuticals
- ◇ Faculty members from academic and research institutions
- ◇ Final year students of engineering and science who are aspiring for higher education

PATRONS

Dr. Sessa Iyer	Chairman, BOG- Sardar Patel College of Engineering
Dr. P. H. Sawant	Principal, Sardar Patel College of Engineering

Registration Form

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On
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SARDAR PATEL COLLEGE OF ENGINEERING

(Government Aided Autonomous Institution)

Department of Mechanical Engineering

Bhavan's Campus, Andheri (West), Mumbai, 400 058 Maharashtra.

Ph: 91-22-26232192, 91-22-26289777, Fax: 91-22-2623 7819

www.spce.ac.in

Name (in Block Letter): (Mr./Mrs./Ms./Dr) _____

Designation: _____

Educational Qualification: _____ Experience: _____

Organization: _____

Mailing Address: _____

Telephone: Office: _____ Residence: _____ Mobile: _____

Email: _____

DD No. and date: _____

Registration fees (amount paid): _____

Note: For registration pay the registration fees and send the scanned copy of filled registration form to kiran_bhola@spce.ac.in