

## PROGRAMME COORDINATORS

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School of Engineering,

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## REGISTRATION FEE

Participation from Industry	: Rs. 5000/-
Govt. Architects / Engineers	: Rs. 5000/-
Institutional Participants / Faculty Members:	Rs. 2000/-
Students and Research Fellow	: Rs. 1000/-

## SCOPE OF STTP

The STTP is planned to cover the integration of some of the topics of Strength of Materials along with Analysis & Design of Machine Elements and Analysis & Design of Structures at micro level with commercially available CAD tools. With authentic free availability of computer aided design & engineering tools particularly for faculty & students of engineering institutes the teaching learning process to these subjects can be revolutionised through integration of workflow and industry standards which is inherent in these tools.

Students of Mechanical & Civil Engineering have taken this integration very positively at all levels say it at student projects or real life project handling and over and above class room productivity for these subjects has improved appreciably. The implementation case studies of last few years will be shared along with access to recourses sharing platforms. The course co-ordinator strongly believe that armed with these tools co-faculty members can benefit from this experimented and tested genuine initiative of Quality Improvement in Mechanical / Civil Engineering, whereby these courses are taught / learned by integrating these tools.

## HOW TO REACH AND PLACES OF INTEREST

University is situated on Yamuna Expressway, Greater Noida in the National Capitol Region of New Delhi, India and is very well connected through World Class Roads from New Delhi Airport, Railway Stations and Inter State Bus Terminals by less than an hour's drive. All the historical and contemporary places of interest in the regions are in reach 24x7 from the university.



## ABOUT THE UNIVERSITY



Gautam Buddha University, established by government funding in 511 acres lush green campus at Greater Noida encourages multidimensional growth through its education, training and research. The University envisions becoming a world class centre for excellence in education & research. The academic programmes, designed in line with the best universities around the world, combine the best practices of andragogy and class room teaching, complemented by practical training and experiential learning. In order to promote value-based education, research and training, the University has established eight schools. To cater the engineering disciplines; School of Engineering, Information & Communication Technology and Architecture & Built Environment offers Post Graduate & Doctoral level studies in of the branches of Engineering & Technology including interdisciplinary domains. In terms of infrastructure the University can boost of having world class facility.

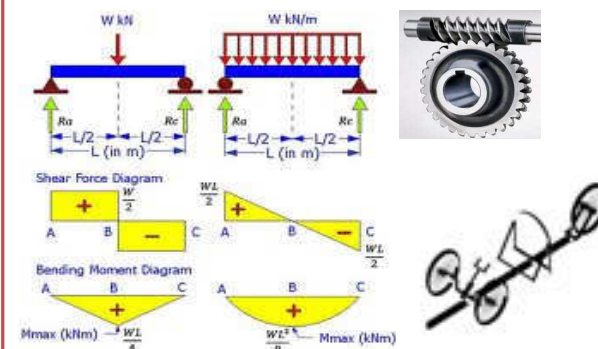


## Gautam Buddha University Greater Noida

### ANNOUNCES

### Short Term Training Programme (STTP)

*On*



### COMPUTER AIDED STRENGTH OF MATERIALS AND ANALYSIS & DESIGN OF MACHINE & STRUCTURAL ELEMENTS

*(Dec 24<sup>th</sup> – 28<sup>th</sup>, 2012)*

Organised by

School of Engineering



## ABOUT THE SCHOOL



School of Engineering has been conceptualized and established with an objective to work out and develop a dependable model for growth, consistency and significant breakthrough in cutting edge technology and innovation. The rapid diffusion of core engineering fields like Civil Engineering, Electrical Engineering and Mechanical Engineering has the potential of bringing improvement in productivity and efficiency in almost every aspects of our life and consequently turning out to be a key driver of our economic growth. The school is equipped with state of the art class rooms, resource rich library and is in process of setting up laboratories and research facilities.

## RECENT TRENDS WITH CAD TOOLS

Most commercial CAD tools are either free for students and educators today or are available at highly reasonable. Professional Engineers today work on these tools and many comment that it would have been better that more time could have been spend on the same during the early stage of engineering education for the sake of productivity. Also modern day students are well informed and technology savvy, their learning technology adaptation pace is fast and are always ready to be challenged. Educator is under pressure to make teaching-learning process more effective, productive and oriented towards practical learning.

By integrating Autodesk Inventor during laboratory to verify the problem sums worked out in tutorial hour out of the concepts of subjects like Strength of Materials and Analysis & Design of Machine & Structural Elements for Mechanical & Civil Engineering students, this course delivery deficit has been attempted to overcome.



## COURSE CONTENTS

- 1) Introduction to Autodesk® Inventor® software work environment.
- 2) Learning Design builder features of Autodesk® Inventor®.
- 3) Solving Strength of Materials problems Autodesk® Inventor®.
- 4) Solving Mechanical Power Transmission problems by Autodesk® Inventor®.
- 5) Solving Mechanical Fastening problems by Autodesk® Inventor®.
- 6) Solving Truss and structural design problems by Autodesk® Inventor®.
- 7) Visualising design through dynamic simulation by Autodesk® Inventor®.
- 8) Learning by reference through updated Engineers Handbook as Design Data book.

The course content will be delivered from a pool of experts on the subject from Gautam Buddha University and other academic institutes i.e. IIT's/NIT's & industry.



## WHO SHOULD ATTEND?

Faculty of Mechanical & Civil Engineering Institutions at Degree / Diploma levels, PG students, Research Scholars, practicing engineers in government & industry can benefit from this training programme.



## IMPORTANT DATES

**Last date of Registration with Fees : 02 Dec 2012**  
**Intimation of confirmation : 09 Dec 2012**

(Demand draft is to be in favour of "Gautam Buddha University" payable at Greater Noida)



## FOR QUERIES/CONFIRMATION MAIL US :

[harlal@gbu.ac.in](mailto:harlal@gbu.ac.in) & [harlal.singh@gmail.com](mailto:harlal.singh@gmail.com)



## REGISTRATION FORM

### **COMPUTER AIDED STRENGTH OF MATERIALS AND ANALYSIS & DESIGN OF MACHINE & STRUCTURAL ELEMENTS**

Full Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Organisation: \_\_\_\_\_

Experience (in years) Teaching: \_\_\_\_ Industry: \_\_\_\_

Address of Correspondence: \_\_\_\_\_

Pin Code: \_\_\_\_\_ Phone: \_\_\_\_\_

Mobile No.: \_\_\_\_\_ E.mail: \_\_\_\_\_

Registration Category: (Please Tick)

- ☐ Participants from Industry  
☐ Students & Research Scholars  
☐ Institutional Participants / Faculty Members

### **Details of Registration Fee:**

Name of Bank & Branch: \_\_\_\_\_

DD No.: \_\_\_\_\_ Dated: \_\_\_\_\_

For Rs. \_\_\_\_\_

(DD should be in favour of "Gautam Buddha University",  
Payable at Greater Noida)

Date:

Signature of Participant

The applicant is hereby sponsored and will be permitted to attend the STTP.

**Signature and stamp of the Sponsoring Authority**

- No TA/DA will be paid.
- Plz. Post your completely filled registration form to  
Dr. Harlal Singh Mali, Assistant Professor, School of Engineering,  
Gautam Buddha University, Yamuna Expressway, Greater  
Noida, Gautam Budh Nagar, Uttar Pradesh (India) – 201310.