Course Co-ordinators

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Professor (Dr.) Virendra Kumar Paul, Professor and Head, Department of Building Engineering and Management, School of Planning and Architecture, Delhi

Professor Paul has been pursuing academic interest in the various facets of area construction management for past 25 years. An architect with specialization in building engineering and construction project management, main focus has been to achieve desired functional performance of constructed facilities through construction practices, life and fire safety, and improved thermal and illumination solutions. He has worked on joint research project between SPA-Delhi, Indian Institute of Technology, Delhi, and Bartlett School, London, UK. That looked into climatic suitability of traditional design typologies within cluster settings through actual monitoring and simulations. He was also part of the team for UKIERI project ‘Evaluation of Emerging Industrialized Housing Technologies and Systems for Affordable and Sustainable Housing Stock in India and the UK’ along with other academic partners, IIT, Delhi and IMT, Ghaziabad. Professor Paul was instrumental in introduction of BIM for Project Planning and Scheduling into MBEM curriculum.

Building Information Modelling for Construction Project Management
21st Aug – 1st Sept 2017

Venue

SCHOOL OF PLANNING AND ARCHITECTURE, NEW DELHI
4-Block-B, Indraprastha Estate, New Delhi-110002, India
www.spa.ac.in

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Instruction For Registration

Please follow the steps below for registering in the GIAN programme on Project Cost and Contract Management

1. Register at the GIAN portal on the link http://www.gian.iitkgp.ac.in/ by clicking on ‘Course Registration/Participant Login’

2. It shall state – ‘Registration to the portal is one time affair and will be valid for lifetime of GIAN. Once registered in the portal, an applicant will be able to apply for any number of GIAN courses as and when necessary. One time Non-refundable fee of Rs. 500/- is to be charged for this service. Please also note that mere registration to the portal will not ensure participation in the courses’.

3. Once done with registration, please select the course ‘Building Information modelling for Construction Project Management’ from the list of courses.

4. Send the copy of registration details from GIAN website to the following email; gian.bim@spa.ac.in

Last Date of Registration: 11th August 2017
Overview
Construction projects are widely recognized as complex in nature. This is normally attributed to a number of factors such as the physical constraints, the size of the project, the technical complexity, uncertainty, contractual arrangements, the range of participants involved in the complex supply chain relationships and the general “one off” nature of construction projects.

Planning and scheduling therefore plays a crucial role in delivering construction projects on time, to cost, safely and at the quality required by the client. In recent years, the emergence of Building Information Modelling (BIM) is currently playing a critical enabling role in the successful delivery of construction projects. BIM facilitates: collaboration amongst construction professionals, production, coordination, sharing, communication and management of project information within construction supply chains. Given the emerging nature of BIM, the lack of understanding of its potential has been a huge barrier for its adoption by professionals. A major strength of BIM tools is the possibility of virtual simulation and assessment of various construction applications and decision-making before constructing the project on site. With BIM, we can simulate design, project plans/schedules, cost, and sustainability performance of projects and investigate alternative options virtually and make decisions based on outputs. Furthermore, emerging BIM systems can be linked to mobile devices through freely available mobile apps and cloud-based systems that can allow supply chain members especially site and project managers to collaborate and share project information real-time, any-time and from anywhere.

Aim and Objectives
The aim of this course is to prepare participants to manage construction projects through the use of advanced planning and control techniques and to develop knowledge and skills in the use of BIM systems to support the successful delivery of construction projects.

Participants will:
- Gain a theoretical and practical understanding of BIM
- Enhance their knowledge on the selection and comparison of alternative BIM systems
- Apply advanced information modelling techniques using BIM systems
- Explore BIM systems for various construction applications

Registration Fee

Module A only*
- Academicians/Govt. Organisation: 10,000/-INR
- Research Associates/Scholars: 5,000/-INR
- Industry participants: 15,000/-INR
- Students: 3,000/-INR
- Students/faculty from host institution: 1,500/-INR
- Foreign Nationals: $500

Module A + Module B*
- Academicians/Govt. Organisation: 12,000/-INR
- Research Associates/Scholars: 7,500/-INR
- Industry participants: 20,000/-INR
- Students: 5,000/-INR
- Students/faculty from host institution: 2,000/-INR
- Foreign Nationals: $1000

*Fee does not include accommodation. Includes lunch, tea and snacks on all workshop days. Accommodation can be arranged for extra payment. Participants are required to carry their own laptops.

Who can attend?
- Executives, corporates and industry professionals, architects, engineers and researchers from manufacturing, service and government organizations including R&D laboratories.
- Faculty from reputed academic institutions and technical institutions.
- Student at all levels (BTech/B.Arch/M.Arch/MSc/MTech/PhD)

International Faculty

Dr. Henry Abanda PhD, Dipl.-Ing., PGcert (Distinction), BSc (Hons), CEng, MIET, FHEA, School of Built-Environment, Oxford Brookes University

Henry is a Senior Lecturer in the School of the Built Environment, Oxford Brookes University. His research interests are in the area of Semantic Web, BIM, and Big Data and he has designed, implemented and delivers the BIM related modules on the undergraduate and post-graduate courses in the School of the Built Environment.

Henry has delivered BIM lectures at the Universidad de Lleida, Spain; Ecole Nationale d’Ingénieurs de Tarbes, Institut National Polytechnique de Toulouse, France; and recently at the UN-Habitat III conference in Quito, Ecuador. Henry was the lead facilitator in training 160 construction professionals through hands-on workshops on the use of BIM for construction project management and quantity surveying as part of the European Regional Development Fund Programme FutureFit Build Assets funded project.

Course Details

Duration: 21st August 2017-1st September 2017

Lecture Schedule

Lecture 1: Introduction to BIM
Lecture 2: Use of BIM software 1 - Preliminaries
Lecture 3: Use of BIM software 2 - Modelling of buildings
Lecture 4: Use of BIM software 3 – Advanced concepts
Lecture 5: Use of BIM software 4 – More advanced concepts

Module B: nD modelling applications (28th August 2017-1st Sept 2017)
Lecture 1: Introduction to nD modelling
Lecture 2: Using BIM for embodied energy and carbon analysis
Lecture 3: Interoperability applications in BIM
Lecture 4: 4D and 5D BIM
Lecture 5: BIM applications for collaboration