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Overview
Planning and scheduling plays a crucial role in delivering construction projects on time, to cost, safety 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. 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 one can simulate design, project plans/schedules, cost, and sustainability performance of projects and investigate alternative options virtually and make decisions based on outputs. Globally, different governments are now recommending the adoption of BIM on construction projects. Increasingly, international projects are now being delivered using BIM, and the Indian construction industry cannot afford not to be part of this global movement.

This course will be delivered by Dr Henry Abanda, Senior Lecturer in Construction Informatics from the School of the Built Environment at Oxford Brookes University, UK in collaboration with Department of Building Engineering and Management, School of Planning and Architecture, New Delhi.

Objectives
Participants will:
1. Gain a theoretical and practical understanding of BIM
2. Enhance their knowledge on the selection and comparison of alternative BIM systems
3. Apply advanced information modelling techniques using BIM systems
4. Explore BIM systems for various construction applications
5. Explore cloud/mobile BIM for sharing construction project information
6. Develop an understanding of collaborative supply chain working practices required to gain competitive advantage in the use of BIM

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

### Module B: B:nD modelling applications (28th Aug-1st Sept 2017)

1. Introduction to nD modelling
2. Using BIM for embodied energy and carbon analysis
3. Interoperability applications in BIM
4. 4D and 5D BIM
5. BIM applications for collaboration

### Dates

<table>
<thead>
<tr>
<th>Module A: BIM for Design</th>
<th>Module B: B:nD modelling applications</th>
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Last Date of Registration: 11th August 2017  
Number of Participants: Limited to 40 no.

### Venue

School of Planning and Architecture, New Delhi

### 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 students at all levels (B.Tech/B.Arch/M.Arch/MSc/MTech/PhD).

### 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 lodging. Includes lunch, tea and snacks on all workshop days. Accommodation can be arranged for extra payment. Participants are required to carry their own laptops.*
The Faculty

Dr. Henry Abanda PhD, Dipl. -Ing., PGcert (Distinction) BSc (Hons), CEng, MEEC MIET FHEA, Senior Lecturer in Construction Informatics, Renewable Energy Expert, The European Energy Centre, Oxford Institute for Sustainable Development: Construction Project Management Group, Oxford Brookes University, UK.

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.

Dr. Virendra Kumar Paul, Professor and Head, Department of Building Engineering and Management, SPA-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.

Course Coordinators

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+91-11-23702386

www.gian.iitkgp.ac.in
INSTRUCTION FOR REGISTRATION: Building Information Modelling (BIM) for Construction Project Management

Please follow the steps below for registering in the GIAN programme on BIM for Construction Project 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 (BIM) 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

For payment please consider any of the options;

1. DD/multicity cheque payable at New Delhi in the name of School of Planning and Architecture, New Delhi
2. Bank Transfer at
   SPA, NEW DELHI SB #: 18200100001266
   Bank: UCO Bank
   State: Delhi
   District: New Delhi
   Branch: IIPA
   IFSC Code: UCBA0001820 (5th character is zero)
   MICR Code: 110028041
   Branch Code: 001820 (Last 6 Characters of the IFSC Code)
   Swift Code: UCBAINBB001
   Address: UCO Bank, Indian Institute of Public Administration,
   4, Block-B, Indraprastha Estate, Near ITO, New Delhi-110002

Last date for registration is 11th August 2017. Kindly complete all formalities by then. In case of any queries, please feel free to contact the Course coordinators.