BPM405 Advanced Construction Technology

Level: 4
Credit Units: 5 Credit Units
Language: ENGLISH
Presentation Pattern: EVERY JAN

Synopsis:

BPM405 Advanced Construction Technology provides students an insight into how advanced construction technologies and systems such as precast technology and systems construction are used to enhance productivity and performance in construction projects. Students will be given an understanding of the advantages of rapid and lean construction, and how precast technology and systems construction can help to reduce wastages, improve safety and quality and save on time and cost.

Topics:

- Advanced Construction Methods
- Advanced Construction Technology and Systems
- Rapid Construction and Lean Construction
- Off-site Construction
- Modular Construction and Prefabrication
- Precast Technology
- Systems Construction
- Quality and Standards Requirements
- Precast Technology and Systems Construction in Civil Works
- Precast Technology and Systems Construction in Buildings Works
- Limitations of Precast Technology and Systems Construction
- Benefits of Precast Technology and Systems Construction

Learning Outcome:

- Discuss advanced construction methods, technology and systems
- Appraise the benefits of precast technology and systems construction
- Compare on-site construction with off-site construction
- Examine and identify areas of construction that could make use of advanced construction technology, precast technology and systems construction
- Recommend advanced construction methods, technology and systems in construction projects
- Improve safety, quality and savings on time and cost by using precast technology and systems construction

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	TUTOR-MARKED ASSIGNMENT 1	10
	TUTOR-MARKED ASSIGNMENT 2	20
Overall Examinable	Written Exam	70

Components		
Total		**100**