

BPM205 Productivity Management

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

BPM205 Productivity Management provides student an insight into the knowledge of the role of management in improving productivity in construction projects and/or at the work site. Major topics covered include management principles, models and tools to enhance productivity, recent management theories and techniques of construction project management, value engineering, risk management, etc. Students will also be taught to identify potential problem areas in construction projects and given guidance on circumventing or solving them. Qualities of an effective Project Manager will be identified.

Topics:

- Industrial Productivity
- The Productivity Framework in Singapore
- Productive Techniques and Strategies
- Innovation in Construction
- The Lean Approach and Project Management Institute (PMI) Approach in Construction
- 5S in Construction
- Kaizen in Construction
- JIT in Construction
- TQM in Construction
- Value Management and Engineering
- Organizing the Project Team and Management of Stakeholders
- Logistics Management and Supply Chain Management
- Collaboration and Partnership
- Managing Construction Techniques and Methodologies
- Managing Machineries and Equipment
- Managing Performance in Construction
- Measurement of Productivity in Construction

Learning Outcome:

- Identify distinguishing features of construction productivity, and relate them to the productivity framework in Singapore by analysing its techniques and strategies
- Describe the role of innovation in construction, and the implications of Lean and Project Management Institute approaches, and the 5S philosophy in construction;
- Discuss the importance of and contributions by Kaizen, Just In Time, and Total Quality Management to construction productivity, including the problems in their implementation;
- Apply the concepts of value management and engineering, management of project team and stakeholders, and logistics and supply chain management;
- Understand and apply principles of partnership and collaboration, managing construction techniques and methodologies, and managing machinery and equipment; and
- Demonstrate ability to measure and manage productivity in construction, conduct risk assessment and apply risk control.

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
PRE-CLASS QUIZ	2
QUIZ	10
PRE-CLASS QUIZ	2
GROUP BASED ASSIGNMENT	14
PRE-CLASS QUIZ	2
Sub-Total	30

Examinable Component	Weightage (%)
Written Exam	70
Sub-Total	70

Weightage Total **100**