GOVERNMENT POLYTECHNIC, PURI
DEPARTMENT OF CIVIL ENGINEERING

Discipline: **CIVIL ENGG.**	Semester: 6TH	Name of the Teaching Faculty: **MISS KUSMITA NAYAK & Mrs. SUBHASHREE SAHOO**
Subject: **CONSTRUCTION WORKS PRACTICE & MS PROJECT (Pr. 1)**	No. of days/per week class allotted: 05	Semester From date: 10.03.2022 To Date:10.06.2022 No. of Weeks:15
PRE-REQUISITE	Basic knowledge of construction works.	
COURSE OUTCOMES	1. Know the construction tools and select as per requirement. 2. Construct brick walls and comprehend the challenges associated 3. Fabricate formworks and reinforcements 4. Evaluate compressive strength of concrete by conducting non-destructive tests 5. Know different plumbing tools and fixtures 6. Use MS Project to plan, schedule and report a project.	

Week	Class day	PRACTICAL TOPICS	Delivery Method
1ST	1ST	**PART I: Construction work Practices** 1 Study of tools required for construction of masonry.	Demonstration
	2ND	1 Study of tools required for construction of masonry.	Demonstration5
	3RD	**Record Submission**	
	4TH	**Viva voce**	
	5TH	2. Lay out Plan of a building.	Whiteboard
2ND	1ST	2. Lay out Plan of a building.	Practice
	2ND	**Record Submission**	Demonstration
	3RD	**Viva Voce**	Practice
	4TH	3 Construction of 1 &1 ½ Brick thick walls in English Bond in Mud mortar including a corner.	Practice
	5TH	3 Construction of 1 &1 ½ Brick thick walls in English Bond in Mud mortar including a corner.	
3RD	1ST	**Record Submission**	
	2ND		
	3RD	4 Construction of 1 &1 ½ Brick thick Pillar in Mud mortar.	Demonstration
	4TH	4 Construction of 1 &1 ½ Brick thick Pillar in Mud mortar.	Practice
	5TH	**Record Submission**	Demonstration
4TH	1ST	**Viva Voce**	
	2ND	5 Bar bending and fabrication of reinforcements for a beam.	Demonstration
	3RD	5 Bar bending and fabrication of reinforcements for a beam.	Practice
	4TH	**Record Submission**	Demonstration
	5TH	**Viva Voce**	
5TH	1ST	6 Bar bending and fabrication of reinforcements for a slab.	Demonstration
	2ND	6 Bar bending and fabrication of reinforcements for a slab.	Practice
	3RD	**Record Submission**	
	4TH	**Viva Voce**	
	5TH	7 Bar bending and fabrication of reinforcements for a lintel with chajja.	Demonstration
6TH	1ST	7 Bar bending and fabrication of reinforcements for a lintel with chajja	Practice
	2ND	**Record Submission**	
	3RD	**Viva Voce**	
	4TH	8 Bar bending and fabrication of reinforcements for a column.	Demonstration
	5TH	8 Bar bending and fabrication of reinforcements for a column.	Practice
7TH	1ST	**Record Submission**	
	2ND	**Viva Voce**	

	3RD	9 Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S.1311(Part-2)-1992.	Demonstra
	4TH	9 Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S.1311(Part-2)-1992.	Practice
	5TH	**Record Submission**	Practice
8TH	1ST	**Viva Voce**	
	2ND	10 Study of pipe joints and plumbing fixtures.	Practice
	3RD	10 Study of pipe joints and plumbing fixtures.	Demonstration
	4TH	**Record Submission**	Practice
	5TH	**Viva Voce**	
9TH	1ST	**PART II: MS Project** **1 Introduction to Microsoft Project** 1.1 Project Management-Definition & concept	Practice
	2ND	1.2 Features of Microsoft project	Demonstration
	3RD	1.3 MS project scheduling for engineering	Practice
	4TH	**Record Submission**	
	5TH	**2 Creating a project plan** 2.1Basic information for a new project	Practice
10TH	1ST	2.2 Creating project from a blank	Demonstration
	2ND	2.3 Creating project from existing	Practice
	3RD	**Record Submission**	Practice
	4TH	**Viva Voce**	Demonstration
	5TH	**3 Basics of Microsoft Project** 3.1Estimating a project	Practice
11TH	1ST	3.2Project Task	Demonstration
	2ND	3.2Project Task	Practice
	3RD	3.3Project Resources	Practice
	4TH	**Record Submission**	Demonstration
	5TH	**4 Tracking the project progress** Tracking the project progress	Practice
12TH	1ST	Tracking the project progress	Demonstration
	2ND	Practice	
	3RD	**Record Submission**	
	4TH	**Viva Voce**	
	5TH	**5 Project Reporting** Project Reporting	Demonstration
13TH	1ST	Project Reporting	Practice
	2ND	**Record Submission**	
	3RD	**Record Submission**	
	4TH	**Viva Voce**	
	5TH	**Viva Voce**	
14TH	1ST	**6 Custom views and field** 6 Custom views and field	Demonstration
	2ND	6 Custom views and field	Practice
	3RD	6 Custom views and field	
	4TH	**Record Submission**	
	5TH	**Viva Voce**	
15TH	1ST	PRACTICE CLASS	
	2ND	DOUBT CLEARING CLASS	
	3RD	DOUBT CLEARING CLASS	
	4TH	PRACTICE CLASS	
	5TH	PRACTICE CLASS	

LEARNING RESOUCES:

1 Building Construction — S.C.Rangawala

Buildiing Construction — S.S. Bhavikatti,

WEBSITE RESOUCES:

01. https://youtu.be/uyZGvFwVJU4

Rukmita Nayak
SIGNATURE OF CONCERNED FACULTY

10-03-2022
SIGNATURE OF HOD I/C

PRINCIPAL
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